Application for a Grant

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Conseil de recherches en sciences humaines du Canada

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| Participants List names of your to include assistants, s | eam members (co-applicants and collaborators) wi tudents or consultants. | ho will take part in the intellectual direction of the researc | h. Do not |
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| 2 | 1100 | CANADA | AB |
| 3 | 1100 | CANADA | YT |
| 4 | 1100 | CANADA | NT |
| 5 | 1100 | CANADA | SK |

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Response to Previous Critiques - maximum one page

Applicants may, if they wish, address criticisms and suggestions offered by adjudication committees and external assessors who have reviewed previous applications.

The proposed research focuses on Apachean migration as a significant vector of Dene expansion in western North America. Many archaeological models simply treat migration processes as the outcome of biological fissioning of human populations, often conceiving of migration as a wave-of-advance (e.g., Steele 2009). The same kin-structured processes that guided Dene principles of group formation in the Subarctic would shape different fissioning processes, creating alternative migratory processes (such as "leapfrog" or "outpost" models that resonate with Promontory evidence). Renewed archaeological thinking about migration pays attention to social science research into migration, and specific processes like kin structuring of founding populations (Anthony 1990; 2007). The current proposal develops predictions about what to expect during Apachean migration and uses the extraordinary fidelity of Promontory material culture and the growing inventory of AMS dates reflecting temporal trends to frame precise questions. These include insights into the population structure of the Promontory Cave inhabitants (derived from moccasin sizes and their precise relationship to stature and age), assessing the potential for apex founding populations (based on refinement of moccasin sewing techniques) and similar problems.

My long term research interests involve theoretical models of kinship in hunter-gatherer societies. Eggan (1980) suggested a fruitful research path in saying "there is a whole world of social structures 'underneath' Claude Levi-Strauss' Elementary Structures of Kinship." Kinship is normally the idiom in which principles of group formation are expressed in band societies. Different group forming principles trigger varied developmental processes at intergenerational time scales. Developmental processes inflected by relative endogamy or exogamy have demographic impacts on polity and economy, shaping the archaeological record. This was demonstrated for the Dene language family (Ives 1990; 1998; 2010). My approach contrasts with ecological evolutionary models that see band societies as invariant, with feedback processes returning local groups to optimal states. External reviewers of my previous proposal (funded at 31% of the requested value for a single year) ranked the proposal as excellent in all categories, but the review committee asked for more theoretical framework and details of graduate student involvement. Both concerns are addressed here.

The project outlined here defines specific roles for two graduate students. A. Reilly will investigate tabular endscrapers (chi-thos, but specifically those used as implements for softening leather) and related hide processing tools, their continued ethnographic use today, their archaeological distribution in western Canada, and the interplay between hide working implements and leather products, where abundant fur, parts of bison robes and even the marks of fleshing tools on hide give remarkable glimpses into the intense hide production in the caves. MA research G. Yanicki is completing focuses on gaming and prehistoric societal interaction; he will begin his PhD program in Anthropology at the University of Alberta in January 2012 to explore Promontory-Fremont interaction through gaming and other measures with existing Utah collections as well as new excavations at Fremont pithouses discovered during our April 2011 work near the Promontory caves. The pithouses yielded both Promontory and Fremont pottery. T. Kristensen's research on NWT base camps from which prehistoric Dene people used alpine ice patches (leaving perishable artifacts) is expected to yield synergies with the Promontory work. Additional research foci are defined for students that will be accepted during the proposed research.

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Summary of Proposed Research

The summary of your research proposal should indicate clearly the problem or issue to be addressed, the potential contribution of the research both in terms of the advancement of knowledge and of the wider social benefit, etc.

The departure of Navajo and Apache ancestors from Subarctic Canada ca. 1200 years ago formed one of two key vectors in migrations through which Dene or Athapaskan speakers became the most widespread of the language families in North America. Dene communities extend from Alaska to the Sierra Madres, yet relatively little is known archaeologically about what is clearly an important story in New World prehistory. This research explores a key facet of the Apachean expansion through renewed examination of the Promontory Caves on Great Salt Lake, Utah. These dry caves were first excavated in 1930 by prominent 20th century anthropologist Julian Steward, who found every manner of perishable item had been preserved, including hundreds of moccasins, mittens, feathers, cordage and basketry.

Initial Promontory research has been supported by SSHRC SRG-1A 410-2010-0480, which provided partial funding for studies that exceeded our already high expectations. We expanded our previous AMS sample to 45 dates (showing conclusively the Promontory Phase occupation of Caves 1 and 2 is tightly focused on the interval from AD 1150-1300) and began studies to recover ancient human DNA from Promontory moccasins. Initial funding also allowed us to undertake collections analysis in which we explored details of the population structure of the cave inhabitants. Critically, in April 2011 we began new excavations affirming that Cave 1 has a sudden Promontory Phase occupation and that Steward had left behind a large area of even thicker, intact deposits yielding the same amazing range of perishables. More lightly occupied Cave 2 has rich Promontory Phase deposits, but reveals a long stratigraphic sequence extending to the mid-Holocene (and likely to the era just after the retreat of Lake Bonneville). We are here seeking more comprehensive funding to carry out elements of the original proposal that were not funded, and to expand the proven research potential of the Promontory sites and collections.

Because the Promontory record preserves a broad range of material culture, it is well suited to explorations of cultural identity. Steward concluded that this archaeological record was likely created by Apachean ancestors who had formerly been northern bison hunters. He did not have the advantage of several more decades of research concerning Subarctic, Northern Plains, and Great Basin prehistory in which there are many indications that Apachean ancestors retained some northern heritage, but rapidly assimilated ceremonial and material culture from neighbouring societies.

This research is providing for a uniquely North American interdisciplinary project, unprecedented in uniting regional specialists who do not ordinarily work together. The project retains two components: 1) to ensure that maximal information is recovered through re-analysis of Promontory collections from Steward's work, and 2) to continue strategic excavations in Promontory Caves 1 and 2. We will continue building a high precision AMS radiocarbon record through which we can explore specific questions about migratory processes, the timing and nature of the cave occupations, and the likelihood that Apachean ancestors inhabited the caves.

Additional SSHRC funding is required to involve First Nations artisans who will provide expertise in assessing the manufacturing details of the Promontory clothing as well as hide production and sewing tools, some of which continue in use in Dene communities today. This research will also speak directly to emerging international interest in shared cultural and language identities being expressed by Dene communities in Canada and the U. S. The dramatic nature of the artifacts is equally evocative for wider public audiences.

1. OBJECTIVES

The research proposed here will expand upon work partially funded under SSHRC SRG-1A 410-2010-0480 Iv, *Apachean Origins: Exploring the Canadian Heritage of A. D. 13th Century Dene at Promontory Point, Utah.* Our objectives remain substantially the same—to make a contextual approach to the processes connected with Apachean ethnogenesis, applying an interdisciplinary strategy to explore the emergence of Navajo and Apache cultural identities from Subarctic and Northern Plains antecedents in Canada (cf. Trigger 2006:513-14). This work focuses on the astonishing array of perishable artifacts excavated by Julian Steward at the Promontory Caves on Great Salt Lake, Utah. Our expectations for work arising from the original proposal were high; the results we have obtained through initial SSHRC funding have exceeded those expectations. In seeking additional funding, we plan to:

1) Finish assembling a high precision AMS dating record for the 13th century occupations of Promontory Caves 1 and 2, suitable for testing specific hypotheses about the rapid onset of their occupation, to reveal migratory processes used by Apachean ancestors;

- 2) Finish strategic archaeological work at the Promontory Caves so that remaining Promontory Phase deposits and cave environs can be assessed with cutting edge standards, and left in stable condition;
- 3) Continue comprehensive assessment of the Promontory collections for evidence that they were created by peoples with the Subarctic and Northern Plains heritages expected for Apachean ancestors;
- 4) Address unfunded needs to convene First Nations and Native American experts in manufacture and use of the kinds of artifacts in the Promontory Caves (particularly the clothing like moccasins), so that they can evaluate these artifacts and provide traditional insights into this extraordinary assemblage;

2. CONTEXT

As analytical methods have become increasingly refined, and as history has come once again to matter in Americanist archaeology, a new generation of scholars is turning to approaches that may be termed "historical anthropology"—recovering and writing the deep history of pre-contact societies by integrating methods and data from anthropology's subdisciplines and other disciplines (Kirch and Green 2001; Pauketat 2001; Eiselt 2006, in prep.; Ortman 2009; Wilson 2011). We wish to make a comprehensive exploration of a significant migration event in one branch of the Dene language family, the Apachean speakers. Linguists consistently conclude that the proto-Dene homeland lay in northwestern North America and that there were two major vectors of expansion in the last two millennia, one leading to the Pacific Coast and one leading to the Canadian-Apachean Dene speakers (e.g., Krauss and Golla 1981; Foster 1996). Recent genetic research has reinforced these broad trends (Malhi et al. 2003; Malhi et al. 2008). Archaeological research might contribute pivotal evidence to this picture, particularly with respect to timing and pathways, but archaeological literature for the Dene phenomenon is refractory. Dene speakers are highly conservative in retaining their languages. Yet, they readily adopt material and ceremonial culture from neighbouring peoples, making archaeological traces of Dene people difficult to distinguish.

There have been intensive efforts to discriminate Dene archeological records under these challenging circumstances (e.g., Matson and Magne 2007), but often, rather simple tactics are applied to identify past Dene populations. Such efforts establish tenuous linkages between individual artifact styles (such as microblades or Kavik points) and Dene groups, or larger archaeological phases or complexes such as Besant or Avonlea (e.g., Kehoe 1966; Perry 1980; Wilcox 1981; Wilmeth 1979; Magne and Fedje 2007). Consequently, there are divergent conclusions concerning when, where, and how Dene ancestors left the Subarctic, and long temporal and geographic gaps between Canada and 16th century sites such as LA55979, the earliest Navajo site in New Mexico (Warburton and Begay 2005).

This research builds upon previous work involving theoretical models of kinship in hunter-gatherer societies (Ives 1990; 1998; 2010). As Eggan (1980) and Asch (1988) showed, Levi-Strauss (1969) neglected a world of elementary kinship structures pertinent to band societies, where kinship is the idiom in which principles of group formation are expressed. In the Dene case, when Dravidian kin

principles are applied to like versus unlike sex sibling cores at the heart of bands, the intergenerational trajectory of these bands is greatly affected by the tendencies toward either exogamy or endogamy that result. Principles of group formation favouring endogamy lead to bands that meet political and economic needs through growth. When these bands are successful, they can become as large as regional marriage isolates (ca. 250 persons). Bands favouring co-resident exogamy maintain smaller sizes, making use of a more extensive web of external alliances that flow from exogamous marriages. These demographic impacts on polity and economy shape the archaeological record. Dene prehistory can be viewed as an unfolding of variations upon an originally Dravidian kin theme, where the semantic structure of a kin terminology serves as a reliable index of group forming principles. In the case at hand, we know the proto-Apachean kin terminology featured Dravidian crossness where endogamous marriage could occur (Dyen and Aberle 1974; Ives et al. 2010). Such populations are prone to growth and fissioning. These principles must have changed during Apachean migration as most daughter kin systems shifted toward exogamy.

This earlier research intersects with insights arising from the renaissance in the anthropological treatment of migration (e.g., Brettell and Hollifield 2008; Cabana and Clark 2011). Anthony (1990; 2007) synthesized extensive social science literature on migration, developing ideas that resonate well with Apachean migration. He stressed that migrations are not events but rather processes that are kinstructured. While larger populations may move through a "wave-of-advance," the small founding populations that almost certainly characterized Proto-Apachean would be far more likely to engage in a "leap-frog" pattern, in which scouting behavior in advance of residential shifts would be expected. Migration in this mode creates "islands" of settlement, takes place along well-defined routes, and has the capacity to carry regionally defined artifact types to a destination, leading to "founder effects" in both artifact styles and the raw materials. The kin-structuring of migration involves "streaming" of relatives toward established migrants, where earlier migrants become "apex" families in the new setting; initial populations may have an imbalance of younger males that is redressed as more women enter the population nucleus that takes shape. Thinking in this way leads to a variety of testable propositions about Apachean migration more illuminating than assigning phase, complex or artifact labels.

The dry Promontory Caves 1 and 2 that Steward excavated in 1930-31 had abundant bison bones, hair, horn, and hide and hunting paraphernalia. Intensive hide preparation and sewing activities took place, part of a broad range of domestic activities. Most spectacularly, Steward recovered 250 moccasins (mainly of bison leather and fur). Steward concluded that these artifacts had been left behind by a northern hunting population, most likely Apacheans. These materials attracted little subsequent notice, Gunnerson (1956) and Aikens (1967) being exceptions. A strong culture history focus on *in situ* Great Basin development and then, ironically, Steward's own influence through cultural ecology relegated this divergent assemblage to a curiosity termed the "Promontory Problem" (Forsyth 1986; Ives, in prep.).

There is highly plausible linguistic and genetic evidence that the proto-Apachean population came from east of the Rocky Mountains and that early Apachean ancestors lived in a small, cohesive speech community that had been the subject of genetic bottlenecking (Malhi et al. 200, 2008; Golla 2008, Ives 2010). With Sapir (1936), we believe that Apachean ancestors left the Subarctic to become pedestrian Plains bison hunters, interacting first with southern (but not Puebloan) populations, and then with Southwestern and southern Plains societies. As part of the transformative nature of migration, we therefore expect them to have retained some Subarctic and Plains material culture, and to have begun assimilating the material culture of their neighbours. Archaeological and ethnological research shows that the Promontory Cave 1 and 2 assemblages contain moccasins in Bata Shoe Museum styles 2(Ab) and 2(Bb), characteristic of Dene and Algonquian speakers of the Canadian Subarctic (Thompson 1990). An antecedent (1400 BP) round-toed moccasin has been discovered in the Yukon ice patches, within the region generally thought to be the proto-Athapaskan homeland (Hare et al. 2004). Other Promontory artifacts, most notably *chi-thos* and a piece of fabric atypical of the Great Basin but woven exactly as

northern Dene hunting bags were, further elaborate the northern heritage Steward commented on. Our AMS dates on Promontory artifacts are tightly clustered in the interval between AD 1200-1300. Initial Bayesian statistical analysis reveals a pattern in which "northern" artifacts (the moccasins and the fabric) overlap in age with "southern" or Fremont artifacts (such as "one-rod-and-bundle" basketry or juniper bark pottery rings), but the northern group precedes the southern group. Thus, the situation Steward encountered bears strong resemblances to an island of migratory settlement, at a time and place where Apachean ancestors are very much expected to be nearby. Our preliminary results further suggest that a population with northern antecedents arrived suddenly on Promontory Point (the larger Promontory Cave 1 had never been occupied before), and began taking up Fremont material culture. These events took place as a severe drought beginning in AD 1276 brought about the end of Fremont, with the Promontory Phase persisting in the Great Salt Lake and Utah Valley regions for another two centuries (Janetski and Smith 2007; Benson *et al.* 2007).

The Promontory Cave assemblages are one of the most extraordinary aspects of the late prehistoric period in all of western North America; they can shed light on one of the most remarkable episodes in New World Prehistory, the Apachean departure from Subarctic Canada, with insights seldom available the archaeological record.

3.0 METHODLOGY

We propose continued research with closely linked, interdisciplinary strategies intended to derive a maximum degree of information from valuable existing collections and renewed excavations we have been allowed to undertake in Promontory Caves 1 and 2.

3.1 *AMS Dating*: Our previous research and recent SSHRC funds were used in creation of a statistically robust sample of Accelerator Mass Spectrometry (AMS) ages from perishable artifacts, to allow more sophisticated hypothesis testing. The Utah Museum of Natural History (UMNH) and the U. S. Department of the Interior approved an additional 47 samples taken in August of 2010. Our AMS work is taking place at the world's leading facility, the Laboratory for Archaeology and the History of Art, University of Oxford. Twenty-two new samples (mainly moccasins, but a bow, the hoop and darts from a game, etc.) were carefully pretreated to ensure that previous conservation methods did not impact the validity of the dates. Our project now has 39 perishable dates tightly bracketed at 680-830 BP.

We wish to bring this already significant program to fruition, and seek funding for an additional 40 radiocarbon ages to resolve four key areas of enquiry: 1) the temporal relationship between artifacts atypical of the region (with northern affinities) and those typical of the region (of southern origin); 2) discrimination of temporal trends in the population structure of Promontory Cave inhabitants; 3) discrimination of temporal trends in the skill level and elaborateness of decoration revealed in the Promontory moccasins; 4) accurate assessment of ages from well controlled excavation contexts. Initial Bayesian modeling suggested that the atypical artifacts overlap in time with but tend to predate regionally typical artifacts, consistent with arrival of northern hunters at Promontory Point who then take up surrounding material culture. We are currently completing new Bayesian modeling with this larger sample of dates. If the same pattern holds, that finding would be consistent with arrival of migrating Apacheans at Promontory Point in the 12-13th century.

For points 2) and 3), the Promontory collections provide a unique opportunity to assess temporal trends in the populations that suddenly appear in Caves 1 and 2. In research to be reported shortly, Billinger and Ives use anthropometric data to predict foot size from moccasin size. Foot size is an accurate predictor of stature, and stature can be used to predict age. Promontory age structure as reflected in moccasins is dominated by children and subadults, though large adult males are present. With the enhanced AMS sample requested here, we will be able to determine if this age structure shifted through time. Similarly, we will apply measures for assessing the sophistication of moccasin manufacture and decoration (e.g., number of stitches per cm; presence of quillwork). With larger sample sizes for AMS dates, we would expect to be able to detect the presence or absence of temporal trends in

moccasin making. These data are integrally linked to the theoretical framework underlying our approach. If principles of group formation trigger variant development processes, and Dene migration was kin-structured as other migration is, we expect predictable relationships for factors such as the size and composition of fissioning groups in the migration process to be connected with phenomena known from broader social science research on migration. Scouting, a tactic well known to Apachean populations (e.g., Zolbrod 1984), could mean that parties of young adult males typified the earliest cave inhabitants; we might expect more rudimentary moccasin construction and repair as well as larger moccasins in early deposits. Alternatively, the initial migratory population could have been quite diverse in its age and sex structure, bringing group members with a range of skills, some with greater capacity to invest time in additional decoration. The latter individuals could be part of "apex" families, known in migration literature for their influential role in migrating populations. If a broad degree of variability in skill and decoration existed from the first deposits, this would suggest the Cave populations arrived with larger and more complex age structures. The potential to make such distinctions almost never exists for archaeological records. An enhanced AMS sample for Promontory materials will provide a magnificent opportunity to test refined hypotheses about prehistoric migration processes.

A dramatic revelation of the April 2011 excavations was that Steward's 50-60 cm thick Promontory Phase layer was not homogenous. It was nearly twice thick toward the front of the cave (> 90 cm), and had internal structure composed of fibrous anthropogenic bands separated by mineral deposits. There appear to be 8-10 of these bands; given our reasonable grounds for suspecting that the peak Promontory Phase occupation occurred over 150 years or less, it may be possible to work with fine segments of time in the Promontory layers, with potential resolution approaching the level of a decade. A rigorous program of dating for these individual strata would clearly have extraordinary analytical value in determining the onset and end of the Promontory Phase, and in assessing internal pulses of occupation. 3.2 Renewed Archaeological Work at Promontory Caves 1 and 2: During an April 2010 visit, we were able to assess excavation prospects for both caves and to secure permission to excavate from landowner Mr. George Chournos. Our April 2011 excavations involved a 1 x 2 m unit near the front of Cave 1. We discovered rich, intact Promontory Phase deposits yielding moccasins, feathers, quills, massive quantities of fur, remnant strips of staked bison robes, abundant bison and antelope bones, and many other extraordinary finds. Because these deposits were thicker than expected, we could not complete this unit. Cave 2 has Promontory Phase deposits, but there are underlying occupations (some with hearths) extending to the mid-Holocene. At a depth exceeding three meters, we encountered an obsidian macroblade lying just above Lake Bonneville sediments. It is clear that Cave 2 has a lengthy occupation sequence. Both caves have rare and fragile deposits of international significance; we seek additional funding to ensure that these units are completed and properly stabilized, and to undertake further strategic sampling of these deposits to aid in their future management.

Our field camp, situated roughly 3 km from the caves, had several apparent pithouse depressions yielding surface finds of Fremont and Promontory pottery. This site can illuminate the relationship between the Promontory Cave occupants and Fremont peoples; we are seeking funding for a graduate student dissertation project (Yanicki) that would involve trenching three of the pithouses to determine their stratigraphy and recover artifact samples, as well as surface survey and limited subsurface testing in the cave environs to determine what activities took place outside the caves at satellite sites.

Janetski arranged for laser mapping of Caves 1 (1.1 million points) and 2 (300,000 points) during April 2011 fieldwork. These data allow for detailed 3D imagery of the caves. Supernant and Ives will oversee graduate student efforts to use this data to extrapolate habitable surface space, volume of deposits and proportional density of artifacts such as moccasins (e.g., allowing estimates of the total number of moccasins once present in the caves, mean annual deposition of moccasins, etc.) and other information pertinent to refined hypothesis testing of occupation dynamics.

3.2.1 Zooarchaeological and Botanical Investigations: Steward removed only a small sample of faunal remains. Janetski's MA student L. Johannson has analyzed these materials; she is now analyzing faunal remains from our April 2011 excavations in the Promontory Phase layers of Cave 1, and a more diverse fauna from the broader time range reflected in Cave 2. The Cave1 fauna is dominated by bison and antelope; small animal remains are not common. Bison, antelope and deer hair from processing hides as well as feathers require assessment. The butchering and processing profiles reflected in the Promontory Caves will be informative in their own right, but comparisons with the site complex excavated by Arkush (2010) in Curlew National Grassland, Idaho directly north of Promontory Point, will also be a priority. Steward saw no evidence of horticulture and little for wild plant foods; this finding can now be closely evaluated because of our extensive bulk sampling of deposits in both caves. Rhode will oversee investigation of sediments for seeds and other macrobotanical remains (for the insights into subsistence and past climatic conditions). To date, only a single maize kernel has been recovered in Cave 2. This discovery hints at a Fremont presence in Cave 2, a find that requires further investigation as neither we nor Steward found evidence of Fremont use other than the pictographs at the back of Cave 1. 3.3 Indices of Mobility—Obsidian and Ceramics: While the Promontory assemblages are captivating, the caves undoubtedly saw only seasonal use. Ongoing Brigham Young faunal analyses (e.g., a deer skull with cast antlers) hint of a winter-early spring occupation (along with Steward's reasoning that snow was the primary water source). Cave occupants no doubt spent other portions of the year elsewhere. Janetski (1994) noted the profound shift in obsidian use that took place between Fremont and Promontory Phase times in Utah Valley. Fremont obsidian sources lie to the south, while northern sources dominate Promontory sites. Malad obsidian is most common, but other Idaho sources including Yellowstone, Bear Gulch and Brown's Bench are present. Twenty-two obsidian samples from the April 2011 excavations have been sourced revealing strong reliance on the Malad area roughly 100 km north with some obsidian from Brown's Bench (Hughes 2011). This clear northward orientation suggests that Promontory Phase peoples incorporated these areas in their seasonal rounds, or interacted with people who did. We will continue to source obsidian artifacts to increase our sample sizes.

With partial funding, we could not address the key area of Promontory Phase ceramics, the origins for which are poorly understood (Sapir 1923). Among legitimate possibilities would be that Promontory pottery is an incipient Apachean effort at assimilating ceramic technology, that it is a transitional ware from the terminal Fremont era made by others and traded to Apacheans, or that a number of different ethnicities made it. However that may be, we can explore mobility factors through geochemical analysis of ceramics, including Promontory sherds from the caves and Fremont and Promontory sherds found at the previously mentioned pithouses. It will be critical to determine if Fremont pastes and tempers have different geochemical signatures from Promontory pottery. Arkush's (2010) Idaho site 10Oa275, a bison and antelope processing camp, has seven bone beds and living surfaces occupied from A.D. 1050-1750; Promontory Phase pottery is common, along with Fremont wares. We will conduct investigations with time-of-flight laser ablation-inductively coupled plasma-mass spectrometry (TOF-LA-ICP-MS) of Promontory and Idaho ceramic sherds. Analysis will be undertaken by Hector Neff of the *Institute for* Integrated Research in Materials, Environments, and Society at California State University, Long Beach. These analyses will be accompanied by pilot study of bedrock geology and weathering products on Promontory Point, with sediment sampling and prospecting for potential clay and temper sources. Comparisons of chipped stone tool and debitage assemblages from the Promontory Point sites and 10Oa275 will be expanded to cherts and other toolstones to identify potential sources, aiding exploration of relationships between the Idaho and Promontory sites through stylistic and technological analyses. 3.4 Ancient Human DNA (aDNA): Promontory clothing was worn extensively prior to discard, creating the possibility that aDNA could be present. Malhi et al. (2003) concluded that lower sequence variation for mtDNA haplotype A among Apachean peoples than among northern Athapaskans indicated that southern Dene experienced a founder effect during their migration. MtDNA haplogroup A2a is nearly

fixed in some Apachean populations, where it is defined by a mutation at 3330. In HVRI, a subset of A2a has mutations at 16,192, 16,233, and 16,331, a motif that is found in high frequency among Navajo and Apache. If either the substitution at 3330 or this HVRI motif were to be detected in aDNA from Promontory clothing samples, it would strongly suggest that proto-Apachean populations had been there. Nevertheless, Apachean populations would by this southern latitude have absorbed members of other societies with different mtDNA. In April 2011. Shapiro sampled several moccasins recovered during controlled excavations. Our sampling protocol involved protective clothing and oral swabs of all participants, including landowning family members who had been in the caves. Three moccasins have yielded ancient Native American DNA, with sequencing indicating that mtDNA hg B (typical of Jemez/Taono O'odham/Cochimi) is present. This is not surprising given the near surface position of these moccasins in the Cave 1 strata, and the strong possibility Apachean populations accepted members of other societies. These results warrant continued efforts to seek a larger sample of genetic markers. **3.5** Assessment of Cultural Identity: While the idea that Promontory Phase assemblages reflect northern heritage is most compelling for the moccasins, Steward recovered more than 1000 artifacts. These and objects we recovered in April 2011 all need to be reviewed in light of increased material culture knowledge since his era. One hide preparation tool, a D-shaped tabular biface known as a *chi-tho* to Subarctic archaeologists, seems absent in Fremont and other late period assemblages in the Great Basin. These tools are common in the Subarctic, where they are consistently used in the final stages of softening leather (the Promontory leather is of exceptional quality, especially in comparison with Fremont era moccasins). One Promontory tabular biface is identical to Yukon examples in both archaeological and ethnological collections (Thompson 1994). We are seeking funding for a graduate student who will explore the temporal and geographic distribution of *chi-thos* in intervening northern Plains settings and Great Basin sites (e.g., Dyck and Morlan 1995) and through ethnoarchaeological investigations in Dene communities where such implements remain in use. Promontory basketry, matting, rattles, and gaming pieces all need to be assessed against northern Dene ethnological collections (Marie and Thompson 2002; Zolbrod 1984; Culin 1907).

3.3 Research Collaboration with First Nation/Native American Representatives: In a 2009 Dene Migration Workshop convened by Mr. Bruce Starlight (Tsuu T'ina First Nation, Calgary) with Rice and Ives, Navajo, Apache, and Dene representatives from British Columbia, Alberta, Saskatchewan and the NWT expressed strong interest in establishing sustained contact among their communities, and in articulating an international Dene identity. This project can contribute to these Dene aspirations. We are seeking support to pursue three key objectives: 1) to convene workshops for skilled Dene artisans and other communities who may have been in contact with Apachean ancestors (e.g., Blackfoot, Shoshone) to provide expert opinions on the manufacture of Promontory moccasins and other artifacts; 2) to collect Dene vocabulary about these material culture practices and artifacts to help determine potential historical connections between Dene communities in Canada and the U.S.; and 3) to learn more about Dene oral traditions about migration, and specific facets of human population movements. A moccasin sewing workshop held during the 2009 Canadian Indigenous Language and Literacy Development Institute (CILLDI) session, involving Dene Suline, Cree, and Blackfoot experts, led to a fruitful exchange of ideas about moccasin manufacture and use among participants. We collected terms for moccasin parts, raw materials and hide working tools, observed cultural variation in manufacturing styles and decorative techniques, and explored issues such as who made and repaired moccasins (e.g., both men and women might make moccasins). Interaction with expert artisans is will provide deeper insights into the high skill levels exhibited in many of the Promontory moccasins, and may suggest additional ways in which to refine hypotheses for testing. We will use the CILLDI format for further work with moccasins, as well as for annual topics to include gaming and hide processing (supporting graduate student research on this project). We also wish to convene Dene and Shoshone sewing experts at the UMNH to provide their insights with first hand viewing of Promontory moccasins.

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Results from this project are and will be communicated through presentations at national and regional conferences such as the *Society for American Archaeology*, the *Canadian Archaeological Association*, the *Plains Anthropological Society*, and the *Great Basin Anthropological Association*, and in their peer-reviewed journals. Major disciplinary journals (*American Antiquity*, *Current Anthropology*, and the *Journal of Anthropological Archaeology*) will be suitable venues. Should certain results warrant such reporting (e.g., conclusive genetic results linking Dene peoples to the moccasins), articles will be submitted to high profile multidisciplinary journals (*Nature*, *Science*, *PNAS*, or *PLoS One*). The acquisitions editor of the University of Utah press has requested that Ives develop a manuscript concerning the Promontory research and Apachean origins, an idea to be explored during a sabbatical anticipated for 2013-14. Science journalist Heather Pringle, who writes for *Archaeology* magazine, *National Geographic* and *Science* has expressed a direct interest in articles concerning this research.

The *Institute of Prairie Archaeology* features this research on its web page, and will regularly update results; the *Institute* also uses a large screen format in a street level display of research activities in HUB Mall at the University of Alberta. This research is a featured subject and will also be regularly updated: average daily foot traffic in HUB Mall is 22,000 persons. The display has proved effective in student recruitment and has stimulated interdisciplinary contacts on campus. The applicant works regularly with the *Archaeological Society of Alberta* where project results will be presented to lay groups.

This project can form the basis of a travelling museum exhibition of great public interest; it is our intention to explore this avenue during the concluding years of the proposed research. Initial contacts concerning an exhibit with the Utah Museum of Natural History (UMNH) (which has been highly supportive of the research, and for which Ives has produced both web and display interpretive material concerning the Promontory assemblages) and the Royal Alberta Museum have been promising. Both institutions are at major turning points, however, and will not be in a position to participate immediately. The UMNH is slated to re-open a major new facility in late 2011; further display and collections management activities will be a top priority there for some time. The existing Royal Alberta Museum will also close shortly, so that development of a major new facility can begin in downtown Edmonton, with an opening planned for 2015. Neither institution can make commitments at this moment, but the prospects for the final years of the project (when our results will be most complete) are excellent.

It will be critical to provide results of this research to Dene communities deeply interested in it. The *Dene Language Conference* provides annual opportunities for presentations and interaction with Dene speakers, an arena in which Ives and Rice will be active. The annual offering of the *Canadian Indigenous Languages and Literacy Development Institute* (CILLDI) progam (three weeks each July, attended by speakers from 60-80 communities, many of them Dene) will be key venues. We will use themed activity sessions in CILLDI to allow elder participation aimed at stimulating and recording language use for the purpose of fostering language revitalization with younger speakers. These sessions will capture vocabulary use in themed areas, and use digital archiving to make this information accessible to community members.

Schedule: 2012—*American Antiquity* article on collections based AMS dating; *American Journal of Physical Anthropology* article on moccasin size and population structure in Promontory caves; CILLDI session on hide working and moccasin sewing; Regional US & Canadian Conferences.

2013—*Journal of Anthropological Archaeology* article contextualizing Apachean origins and reporting Promontory evidence. Regional US & *Society for American Archaeology* (SAA) meetings; CILLDI session on traditional gaming (hoop, hand, dice and other games). UMNH workshop on Promontory clothing at UMNH, Salt Lake City. *Archaeological Society of Alberta* presentations.

2014—*Canadian Archaeological Association* session, cumulative results of research. Journal articles detailing research results.

2015—SAA Symposium on cumulative results of collaborator and graduate student research.

| Family name, Given name | |
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| IVES, John | |

| | nded Outcomes of Proposed Activities ate on the potential benefits and/or outcomes of your proposed resea | rch and/or related activities. |
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| | e and rank up to 3 scholarly benefits relevant to your proposal. | |
| Rank | Benefit | If "Other", specify |
| 1 | Knowledge creation/intellectual outcomes | |
| 2 | Enhanced research collaboration | |
| 3 | Student training/skill development | |
| | al Benefits | |
| | e and rank up to 3 social benefits relevant to your proposal. | |
| Rank | Benefit | If "Other", specify |
| 1 | Cultural outcomes | |
| 2 | Social outcomes | |
| 3 | Enhanced professional practice | |
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| | e and rank up to 5 potential target audiences relevant to your proposa | |
| Rank | Audience | If "Other", specify |
| 1 | Academic sector/peers, including scholarly associations | |
| 2 | Aboriginal Peoples | |
| 3 | General public | |
| 4 | Para-public institutions (museums, libraries, etc.) | |
| 5 | Students | |

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Expected Outcomes Summary

Describe the potential benefits/outcomes (e.g., evolution, effects, potential learning, implications) that could emerge from the proposed research and/or other partnership activities.

Sabloff (2008) argues in Archaeology Matters, Action Archaeology in the Modern World that archaeologists need to make their work relevant for real issues today. Our research investigates an archaeological record with a direct bearing on one of the most significant migrations in New World prehistory, Apachean departure from the Canadian Subarctic. Today's world is awash in the consequences of migration; many daily headlines reflect human migration directly, or have migration as a subtext. Moreover, Apachean migration occurred during a time of profound climatic change (Benson et al. 2007). Most occupation of the Promontory Caves by specialized bison hunters took place in the 13th century, from AD 1276-1301, when a profound drought signaled the end of Fremont material culture in the Great Basin, retraction of the Puebloan world in the Southwest and collapse of the Cahokia phenomenon in the Mississippian world. The transit of Apachean ancestors can provide vital analogies for problems of paramount importance today: Apachean ancestors left a comparatively water rich world for arid Great Basin, Southwestern and southern Plains homes, often filling "interstitial spaces" left behind by horiticulturalists (e.g., Fremont and Upper Republican peoples) who could no longer sustain those lifeways. Yet, many Apachean speakers would become at least part time horticulturalists and pastoralists by the historic period. Here, archaeological research can offer relevant comparisons and contrasts for critical cultural and environmental factors today.

We are seeking unique opportunities for graduate research. The degree of preservation reflected in the Promontory Caves is astonishing. Virtually everything that could be left from daily residential life has remained. This allows not merely for acutely framed research questions with extraordinary temporal control, but will impact long term student attitudes about the archaeological record. While it is possible to explore test implications of hypotheses concerning migration and interaction in unparalleled ways, students can also see how carefully we must frame our work even in this case. In this way, the Promontory materials inevitably teach researchers humility---even good archaeological records elsewhere pale in comparison. Museum collections and works like Osgood's (1970) Ingalik Material Culture show how the greatest part of Dene material cultures were organic, yet are typically deleted from archaeological records. The Promontory caves provide an object lesson in how narrow our view of prehistoric material culture is without perishable artifacts.

Dene traditionalists from the American Southwest to the Canadian Subarctic express great pride in the way their ancestors' pragmatism and deep attachment to language allowed them to expand across western North America. This research can help Dene people tell that story, in ways that join scholarly perspectives with rich oral traditions. Baillargeon (2010) makes an important point in saying that the person in a community committed to traditional preparation of hides and sewing is also the person leading efforts to revitalize language and recapture the use of First Nations material culture (e.g., Marie and Thompson 2004). Our research can aid those individuals, making accessible these sectors of material cultural use and linking them to a tangible past. Finally, Apachean migration is the last great leg in a Dene-Yeniseian language family story extending from Siberia to northern Mexico, subject matter that grips the popular imagination. Our knowledge mobilization plan can bring that journey to wider audiences, in ways that will foster greater understanding for the complexity of the First Nations heritage among mainstream Canadians.

DESCRIPTION OF THE RESEARCH TEAM

Archaeologists interested in Dene expansion in western North America have tended to work in relative isolation from regional and subject matter experts situated outside their normal sphere of activity, but Dene history and cultural geography are immense. It is virtually impossible for any single researcher to "control" the several relevant literatures. Research into Apachean migration can be most effectively treated in a holistic fashion, where the researchers involved can develop independent lines of investigation with a bearing on complex phenomena. The proposed project unites researchers having not only analytical specializations germane to the problem, but detailed knowledge of the several archaeological records and a larger scholarly context relevant to Dene migration.

John W. Ives: Ives (Department of Anthropology/Institute of Prairie Archaeology, University of Alberta) will serve as the Principal Investigator for the project, coordinating the activities of the collaborators listed below, making specific investigations of the Promontory perishable collections, and synthesizing overall results. Ives directed April 2011 excavations in Cave 1. This will continue to be his primary research priority (40% of project). As Executive Director of the Institute of Prairie Archaeology. Ives oversees his Department's archaeological field school (40% of research activity). He is a collaborator in Claire Bowern's *Dynamics of Hunter-Gatherer Language Change* project (NSF). Joel C. Janetski: Janetski (Emeritus Professor, Department of Anthropology, Brigham Young University) has extensive Great Basin archaeological experience, and is the leading authority on the Promontory Phase. Janetski directed excavations in Cave 2, and is conducting research concerning Promontory ceramics, faunal remains, and lithics (including oversight of obsidian sourcing). Janetski's primary current research commitments (80%) are to the Grand Gulch Basketmaker: Stable Isotope Chemistry, AMS Radiocarbon dating and Documentation of Burial Context (Co-Applicant, U.S. National Science Foundation), and completion of research reporting for several years of work in the Grand Staircase-Escalante National Monument. He will contribute to 15% of the proposed project (representing 20% of his current program of research).

Sally Rice: Rice (Professor, University of Alberta) has interests in semantics, comparative linguistics, and revitalization of endangered languages, and has been extensively involved in U.S. NSF, SSHRC, and Canadian Institute for Language and Literacy Development (CILLDI) initiatives related to Dene language. Rice and Ives have collaborated extensively on a Pan-Athapaskan Comparative Lexicon project over the last several years. Rice will be responsible for eliciting, recording and analyzing moccasin, sewing, and hide preparation terms used by Dene craftspersons, and for determining to what extent Canadian Dene and Apachean speakers share these usages. She will also take part in interviews with landowner George Chournos concerning the history of his family's protection of Caves 1 and 2. This will contribute 10% of the project work and comprises 5% of Rice's overall research activities. Duane G. Froese: Froese (Associate Professor & Canada Research Chair, Earth and Atmospheric Sciences, University of Alberta) is a Quaternary specialist who regularly works in multidisciplinary settings in a broad range of NSF, NSERC and projects. He will be responsible for assessment of the stratigraphy of renewed excavation units in Promontory Caves 1 and 2, and geomorphological appraisal of the cave settings. He will also work closely with Ramsey and Ives to evaluate the suite of radiocarbon ages, especially the implications of Bayesian modeling in interpreting the dates. This will comprise 5% of the proposed project work and represent 5% of his current research work. Beth Shapiro: A 2009 MacArthur Fellow, Shapiro (Shaffer Associate Professor of Biology Department of Biology, The Pennsylvania State University) is a biologist specializing in the recovery of ancient DNA. She is currently involved in a major U.S. NSF project, *Understanding the Role of* Environmental Change on the Long-term Population Dynamics of One Surviving and Two Extinct Arctic

Mammals and NASA Astrobiology Institute project, PSARCIII: Signatures of life from Earth and

Beyond. Shapiro will direct efforts to recover ancient human DNA from items of Promontory clothing, supervising her PhD student Kristine Korzow Richter. This will comprise 5% of project activities. **B. Sunday Eiselt**: Eiselt (Assistant Professor, Southern Methodist University) is currently Director of the SMU-in-Taos Archaeology Field School, its programs and projects. Her earlier research involved the relationship between ceramic production and the formation of Jicarilla Apache enclaves near eastern Pueblo communities. Eiselt will be actively involved in the time-of-flight laser ablation-inductively coupled plasma-mass spectrometry (TOF-LA-ICP-MS) of Promontory and Idaho ceramic sherds and efforts toward determining temper and clay sources. Her Field School responsibilities, with significant Apache outreach activities, and other Southwestern research interests occupy 90% of her time, leaving 10% to devote to this proposed project. This will also comprise 5% of the project work. David Rhode: Rhode is a Research Professor, Division of Earth and Ecosystem Sciences, Desert Research Institute (with affiliations to the University of Nevada-Reno) in Nevada. His particular specialization involves analysis of macrobotanical samples, with various plants comprising the most abundant organic component of the Promontory deposits. Rhode has a long term interest in ancient Great Basin environments, particularly those of Lake Bonneville; his additional interests include a Palaeolithic research project on the Tibetan Plateau. He will be responsible for recovery and analysis of plant remains from Caves 1 and 2, and their interpretation regarding subsistence and climate. **Brooke Arkush:** A Professor at Weber State University, Utah, Arkush directs their Archaeological Technician Program and has run a series of field schools in Curlew National Grassland, Idaho. He has worked with acomplex of bison kill and processing sites that share connections with Promontory Point, and may reflect a different portion of the subsistence settlement system of peoples who lived in the Promontory caves. He has particular interests in communal hunting in western North America. (5%) **Kisha Supernant:** An Assistant Professor, University of Alberta, Supernant has interests in archaeological mapping, defensive sites and conceptions of defensibility, and GIS applications in archaeology each pertinent to our Promontory research. Supernant will be involved in student use of 3D virtual representations of the caves as research and interpretive tools, in GIS applications for spatiotemporal distribution of artifacts such as chi-thos in western North America, and use of spatial data to provide objective assessment the highly defended nature of the Promontory cave locus. (5%) Michael Billinger: Billinger is a biological anthropologist working as an independent researcher with interests in human osteology, forensics, and the concept of race. He has particular skills we are applying in the anthropometric assessment of moccasin size as a proxy for stature and age, providing unique insights into population structure in the Promontory Caves. (5%)

Christopher Bronk Ramsey and Fiona Brock: Bronk Ramsey is Professor and Director of the Research Laboratory for Archaeology and the History of Art, University of Oxford. He will have general oversight of the extensive suite of AMS radiocarbon dates we will assemble, and will be directly responsible for the Bayesian statistical modelling used to assess the entire sample of dates. Brock will be directly involved in sample processing, a critical area since the Promontory collections have a complex curation history, so that pre-treatment care is vital. This is a critically important component of the project, though it will not be especially time consuming once the samples have been processed (5%).

STUDENT TRAINING STRATEGIES

This project will provide training for undergraduate and graduate students, exposing them to activities ranging from extracting useful information from archival sources and protocols for establishing contact with curatorial institutions to determine where other Promontory materials may reside, through to the cutting edge techniques employed by team researchers. Because the proposed research has a four year course, I would in the future like to accept an additional graduate student for the specific purpose of advancing comparative ceramic research concerning Promontory Phase pottery, in order to better elucidate its relationship with Fremont, northern Plains and Dismal River wares (where

there are significant similarities). This student would be involved in efforts to pinpoint temper and clay sources, thin section and petrographic analyses, and further applications of TOF-LA-ICP-MS and similar technologies. Three current students have direct roles in Promontory Cave work:

Gabriel Yanicki (University of Alberta): Currently finishing his MA on the Old Man's Playing field in the Upper Old Man River, Yanicki will be accepted into the University of Alberta PhD program in January 2012. He will then diversify his approach to gaming and societal interaction by examining the relationship between the Fremont and Promontory Cultures. He will have access to the abundant cane dice, bone hand game pieces, and hoop and dart pieces from Cave 1, and will undertake collections based research on Great Salt Lake sites (Levee, various Bear River and related sites) where Promontory Phase materials also occur. With my supervision, he will also be responsible for excavating a pithouse site 3 km south of the Promontory caves that is yielding both Fremont and Promontory Phase pottery a site with great potential to illuminate the Fremont-Promontory relationship. One year of PhD level funding requested here will support this research.

Aileen Reilly (University of Alberta): The cave materials provide a comprehensive record of the hideworking process, leaving us not only with specific stone and bone tools, but the by-products of the hide working process, including copious quantities of fur from dehairing hides, remnant strips of bison robes, and tool marks directly on the leather. Reilly has been accepted as an MA student to make ethnoarchaeological study of hide working tools still in use, to look at the spatio-temporal distribution of chi-thos (of the D-shaped tabular variety consistently used by Dene in terminal stages of graining and softening fine leather), and their occurrence in the Promontory record where they are atypical. Todd Kristensen (University of Alberta): Kristensen will make a PhD investigation of the relationship between high altitude ice patch sites yielding organic artifacts in the NWT and lower altitude base camps that supported such activities among Shuhtagot'ine Dene. His research can create a number of synergies with research team members and graduate students, notably ethnoarchaeological opportunities, material culture lexicon work with archaeological implications, and comparisons of perishable materials from the ice patch and dry cave contexts. One year of PhD level funding will support this research. *Undergraduates (University of Alberta):* Students will be directly involved literature review, finding and extracting information from archival sources, establishing contact with curatorial institutions to determine if they have Promontory holdings, and data base entry and management.

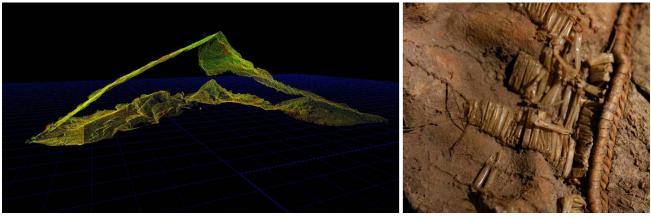
PREVIOUS AND ONGOING RESEARCH RESULTS

Funding through SSHRCC Standard Research Grant-1A 410-2010-0480 allowed for exceedingly valuable progress on this project, proving its potential. Because the award was made for a one year at just under one third of the original request, there have been time constraints on what can be accomplished and a need to prioritize key activities. Coupled with extensive in kind support from Janetski and Brigham Young (access to a full suite of field equipment and graduate volunteers), Shapiro (travel, sampling and processing for aDNA), and the full cooperation of the Utah Museum of Natural History (UMNH), we are most gratified with the results obtained in the last 18 months. An April 2010 visit allowed further assessment of existing UMNH collections (including copies of detailed analytical records for each moccasin), sampling of 30 moccasins by Shapiro for aDNA recovery, a field visit to the Promontory Caves, and successful negotiations with the landowning family (who have protected the caves from vandalism since the 1930s) to permit excavations in Caves 1 and 2. An August visit to the UMNH allowed addition of further metric data from Steward's moccasin sample and AMS sampling from 47 additional artifacts. With detailed collections data, we created a moccasin database from Steward's work and our own observations. Accumulating AMS dates let us assess trends in moccasin size and refinement of sewing through time. We have established precise relationships among moccasin size, foot size, stature and age, allowing a clearer picture of the population structure inhabiting the caves. During 2010-2011, Brigham Young University (Janetski and a graduate student) supported additional

obsidian source analyses for Cave 1, three further AMS dates for ceramic residues, and analysis of Steward's faunal sample (including three additional AMS dates). Shapiro and a PhD student completed analysis of ten moccasin samples from the collections, while Oxford University (Ramsey and Brock) provided an additional 22 AMS dates on Promontory Cave 1 artifacts (primarily moccasins, but also the bow and hoop and dart gaming pieces). These dates (bringing our project sample to 39 ages) are currently the subject of additional Bayesian modeling for specific test implications.

April 2011 excavations in Promontory Caves 1 and 2 were attended by Ives, Rice and Yanicki (University of Alberta), Janetski as well as three current MA students and one former MA student from Brigham Young, Rhode (Desert Research Institute), Associate Curator Michelle Knoll of the UMNH (a PhD candidate at the University of Utah) and Arkush (Weber State College). Arkush also facilitated a visit to the Malad, Idaho obsidian sources. The April 2011 excavations were phenomenally successful revealing even thicker, equally rich Promontory deposits, with bison, deer and antelope fur, leather and hide scraps, split feathers (for fletching arrows), porcupine quills, cordage, six moccasins or fragments thereof, a mitten lining, dozens of cane dice, various lithics, ceramics, animal dung, and extensive bison and antelope faunal remains. Brigham Young University supported detailed sorting and processing of thousand of objects and sediment samples (completed in August of 2011). In April 2011, Shaprio drew sediment samples, and sampled moccasins from our excavation and the landowner's small collection that have yielded ancient human DNA. Twenty- two obsidian artifacts were sourced in July of 2011. Oxford University is currently processing an additional six moccasin samples from known depths in April's controlled excavation, promising our first look at the stratigraphic integrity of layers within the Promontory Phase in Cave 1. We also conducted detailed laser mapping of the interiors of Cave 1 and 2.

Clearly, Promontory Cave 1 deposits can sustain sophisticated hypothesis testing about the inhabitants and their activities, as outlined in our detailed proposal. Early phases of this project have required coordination of many activities among a wide array of collaborators during a condensed period of time, while receiving a stream of important analytical information. This has created challenges in bringing information to publication. Nevertheless, as reflected in CV materials, Ives accepted Janetski's invitation to speak about the Promontory Culture in the 2011 Society for American Archaeology meetings, a paper already submitted for a University of Utah Press publication. Ives also has a paper on Apachean origins submitted and under revision for the Canadian Journal of Archaeology. A "hinge point" in our research concerns the large volume of information generated from existing collections; we are therefore submitting a paper on comprehensive AMS dating of those materials to American Antiquity. Billinger and Ives are finishing a paper linking moccasin size and the population structure of the caves for the American Journal of Physical Anthropology. All four of these publications reflect research results funded in part by SSHRC. They will set the stage for the next phase of Promontory research, moving beyond collections analysis to findings arising from renewed excavations the caves.



Left, 3D cross-section of Cave 1 (laser mapping); **right**, intricate quillwork on a Promontory moccasin.

Family name, Given name IVES, John

Funds Requested from SSHRC
For each budget year, estimate as accurately as possible the research costs that you are asking SSHRC to fund through a grant. For each Personnel costs category, enter the number of individuals to be hired and specify the total amount required. For each of the other categories, enter the total amount required.

| | | Year 1 Y | | Year 2 | , | Year 3 | | Year 4 | Year 5 | |
|--------------------------------------|-------|----------|-----|--------|-----|--------|-----|--------|--------|--------|
| Personnel costs | No. | Amount | No. | Amount | No. | Amount | No. | Amount | No. | Amount |
| Student salaries and benefits/Stipen | ds | | | | | | | | | |
| Undergraduate | 2 | 1,000 | 2 | 1,000 | 2 | 1,000 | 0 | 0 | 0 | 0 |
| Masters | 1 | 3,824 | 1 | 3,824 | 1 | 3,824 | - | 0 | 0 | 0 |
| Doctorate | 1 | 4,002 | 1 | 4,002 | 1 | 4,002 | 1 | 4,002 | 0 | 0 |
| Non-student salaries and benefits/St | ipenc | | | , | | | | ĺ | | |
| Postdoctoral | | | | | | | | | | |
| Other | | | | | | | | | | |
| Travel and subsistence costs | | Year 1 | | Year 2 | | Year 3 | | Year 4 | | Year 5 |
| Applicant/Team member(s) | | | | | | | _ | | _ | |
| Canadian travel | | 5,200 | | 1,700 |] [| 0 | | 1,200 | | 0 |
| Foreign travel | | 8,260 | | 15,960 | | 4,980 | | 4,800 | | 0 |
| Students | | | | | , , | | , - | | | |
| Canadian travel | | 7,700 | | 1,600 |] [| 1,800 | | 600 | | 0 |
| Foreign travel | | 6,380 | | 6,380 | | 4,215 | | 3,600 | | 0 |
| Other expenses | | | | | , , | | , - | | | |
| Professional/Technical services | | 19,390 | | 17,390 | | 12,160 | | 1,500 | | 0 |
| Supplies | | 6,510 | | 2,760 | | 2,760 | | 1,160 | | 0 |
| Non-disposable equipment | | | | | | | _ | | _ | |
| Computer hardware | | | | | | | | | | |
| Other | | | | | | | | | | |
| Other expenses (specify) | | | _ | | | | | | | |
| Research Subject Fees | | 1,000 | | 1,000 | | 800 | | 400 | | 0 |
| Landowner Support, Field Car | np | 1,000 | | 1,000 | | 1,000 | | 0 | | 0 |
| Helicopter Charter | | 9,600 | | 0 | | 0 | | 0 | | 0 |
| Total | | 73,866 | | 56,616 | | 36,541 | | 17,262 | | 0 |

PERSONNEL COSTS (\$30,480 Total over 4 years, ALL FUNDS CANADIAN)

Personnel expenses use University of Alberta rates (collective agreement, graduate students) for thesis related work: graduate allocations based on 4 months, 18hrs/week. Graduate students will undertake collections/archival research, prepare for and conduct of fieldwork, process field records and materials, and undertake analyses (e.g., point cloud data from laser mapping). We will employ undergraduates for smaller research tasks. Yr 1: 1 MA student (Reilly @ \$3823.9), 1 PhD student (Yanicki, @ \$4002.10) and two undergraduates (@ \$500 each x 2 = \$1000) (total = \$8826). Yr 2: 1 MA student (Reilly @\$3823.9), 1 PhD student (Yanicki, @ \$4002.10) each for 4 months, 18hrs/week, and two undergraduates (@, \$500 each x 2 = \$1000) (total = \$8826). Yr 3: 1 MA student (to be accepted @, \$3823.9), 1 PhD student (Yanicki, @ \$4002.10) and two undergraduates (@ \$500 each x 2 = \$1000) (total = \$8826). Yr 4: 1 PhD student (Kristensen, @ \$4002.10) (total = \$4002.10).

TRAVEL AND SUBSISTENCE COSTS

Travel to Utah is key to the work: Promontory Point is located there, the UMNH holds large Steward collections in Salt Lake City, and materials from new Promontory excavations are being held at Brigham Young University. Fieldwork requires team/student presence in Utah. Many artifacts are highly significant cultural properties made of animal and plant products, with specific curatorial needs. Moving these across the U.S. border would require many federal, state or provincial, and institutional approvals—time consuming processes with uncertain outcomes. Our strategy is to move team members and students to collections and to have analytical procedures for artifacts remain within national borders. To allow flexibility in deploying team members, where there is more than one trip per year, trips may be taken by the same or different individuals, as circumstances require.

Team Travel for Research Purposes (Foreign) (\$23,200 over 4 years)

- •Yr 1: Analysis of Promontory Collections, Team (\$2760): 2 trips for team members (flights to Salt Lake City (\$700/person, 5 days accommodation (\$100/night at U Utah Guest House) and per diems (a)\$180 (=\$1380/trip); Archival Research, Team (\$1900): Travel to University of Illinois-Champagne to study Steward's Promontory field records (flight @ \$1100, accommodation, per diem, vehicle rental [\$800]); Archaeological Fieldwork (\$2400): Field camp to support excavations in Promontory Caves 1 and 2 and survey of adjacent areas (University of Alberta vehicle rental @\$60/day plus gasoline costs for 15 days/yr (\$1500) for economical transport of personnel and field equipment), food/accommodation costs 4 days travel to and from Utah (per diem @CDN\$45/person for 2 [\$180], motel @\$220 = \$400), plus camping/groceries for 1 team member @\$500). [Yr 1 Total \$7060]
- •Yr 2: Analysis of Promontory Collections, 2 trips (\$2760 as in Yr 1); Archaeological Fieldwork (\$2400 as in Yr 1); First Nations Workshop UMNH (\$7200 Total): A 2-day gathering of Dene, Navajo, and Numic experts to evaluate Promontory clothing. In recorded sessions, participants will examine artifacts, use vocabulary, and relate relevant oral traditions. Mileage, accommodation & subsistence for Native American participants; flights, accommodation and subsistence for Canadian participants, 8 persons, with an average cost of \$900/person \$7200 (2 Team/6 First Nations). [Yr 2 Total \$12,360]
- •Yr 3: Analysis of Promontory Collections, 1 trip (\$1380 costs as in Yr 1); Archaeological Fieldwork (\$2400 as in Yr 1); [Yr 3 Total \$3780].

• Team Travel for Communication Purposes, Foreign (\$10,800)

We will communicate results at US conferences (Plains Anthropological Society, Great Basin Anthropological Society) with one Yr 1 trip @ \$1200, 3 Yr 2 trips = \$3600; 1 Yr 3 trip @ \$1200; and a Yr 4 Society for American Archaeology symposium, 4 trips (@ \$1200 = 4800).

Team Travel for Research, Canada (\$4500 Total): Yr 1 Travel to Yellowknife and Mackenzie Mountains for collections research/Kristensen's research (flight, accom., per diem @ \$2500), and (\$1500 mileage and accommodation, trips to Glenbow Museum[archival records], Tsuu T'ina and Cold Lake First Nations. Year 2, \$500 trips to Tsuu T'ina and Cold Lake First Nations. No Yr 3-4 costs.

•Team Travel for Communication Purposes, Canada (3,600)

Presentations at the Canadian Archaeological Association (CAA) and Dene Language Conference (in Canada) (3 trips in each of Years 1, 2 & 4 @ \$1200/trip = \$3600).

Student Travel for Research Purposes, Foreign (\$13,375)

Analysis of Promontory Collections, Students (\$10,225 total): Year 1, 2 trips to Salt Lake City/Provo (flights @ \$700; accommodations 14 days @ \$100/day; per diems @ \$45; ground transportation at \$350/week = \$4130); Year 2, 2 trips @ same costs (\$4130); Year 3, 1 trip @ \$1965. Student Fieldwork (\$3,150 total): Years 1-3: Per Diem/accommodation costs travelling to and from Utah (per diem @ 300/year; in field supplies/groceries, 3 students @700 = 1050/year.

•Student Travel for Communication Purposes, Foreign (7,200)

Years 1-3, one student attendance at US regional conference, @ \$1200 = \$3600); Year 4, Society for American Archaeology symposium, 3 student attendances (@ 1200 = \$3600).

Student Travel for Research, Canada (\$7500 Total): Year 1, Flights and accommodation for Reilly and Kristensen to Yellowknife/Mackenzie Mountains (@\$2500/trip= \$5000); travel for Reilly, ethnoarchaeological research at Watson Lake, B.C. and Dillon, Saskatchewan \$1500). Year 2, travel to Royal Saskatchewan Museum, ethnoarchaeological research, Reilly (\$1000).

•Student Travel for Communication Purposes, Canada (\$4,200)

OTHER

Yr 1, 1 student attendance, CAA @ \$1200; Yr 2, 1 student to Calgary's Chacmool conference (@ \$600), Yr 3, 1 student to CAA, 1 to Chacmool (\$1800); Yr 4, 1 student to Chacmool (\$600). **OTHER EXPENSES**

- Professional/Technical Services (\$50,440 Total): Key testing of temporal trends for moccasins requires valid sample sizes and refined dating of anthropogenic layers in Promontory Phase deposits. We require 40 additional AMS dates; Oxford large project research rate of £300 (CDN \$486 @ 1.62/sample, Year 1, \$7290, Year 2 \$7290, Year 3 4860 = \$19,440). TOF-LA-ICP-MS offers a precise, essentially non-destructive alternative for ceramic analysis. *Institute for Integrated Research in* Materials, Environments, and Society analyses average \$50/sample x 120, Yr 1, \$2500, Yr 2 \$2500, Yr 3 \$1000 = \$6000; 200 sherd thin sections at \$18/sample (Yr 1, \$1800, Yr 2 \$900, Yr 3 \$900 = \$3600). Cost share with Shapiro of aDNA analyses, not commercially available for 30 samples, \$3000 for Yrs 1-3 = \$9000. Obsidian sourcing, Geochemical Research Laboratory at a standard rate of \$30/sample x 80, Yr 1, \$1200, Yr 2 \$600, Yr 3 \$600 = \$2400. Desert Research Institute plant identifications @ \$130/litre sample x 50 samples, Yr 1, \$2600, Yr 2 \$2600, Yr 3 \$1300 = \$6500. Cartography, artifact drawing for reports will require Yr 1, \$1000, Yr 2 \$500, Yr 3 \$500, Yr 4 \$1500 = \$3500. • Supplies (\$13,190 Total): Protective clothing for hazardous cave dust and aDNA protocols, Yrs 1-3 @ 1000/yr = 3000); spatial analytical software and high resolution spatial data (Yr 1, \$2000) plus ESRI GIS renewals (Yrs 1-4 @ \$460/year = \$3840); eligible project office costs (forms, long distance calls, printer supplies, sample shipping, lab books, posters) Yr 1, \$1250, Yr 2 \$900, Yr 3 \$900, Yr 4 \$700 = \$3750; CILLDI events (sewing, hideworking materials) Yr 1, \$1800, Yr 2 \$400, Yr 3 \$400 = \$2600.
- Helicopter Charter (Yr 1, \$9,600 total): We lost 36 work hours/day in 2011 to foot transit; helicopter support will let us camp near the caves, to maximize research time. Charters are \$1200/hr, with 4 hr minimum charges, return. Charter would also be used for photography and to plan survey strategies. • Landowner Field Camp Support (\$1000/yr x 3 yrs (1-3) = \$3000): The caves are on a sheep/cattle ranch in an arid environment. Our fieldwork impacts lambing operations; foot/ATV traffic affects range conditions. The research cannot occur without the landowner's sanction and presence. He provides camping facilities, gate access for visiting scientists, and ATV support to our activities (field gear and sediment samples). The \$1000/year budgeted for three years defrays his real expenses in this connection.
- Research Subject Fees (\$1000 x 2 [yrs 1, 2), \$800 yr 3, 400 yr 4 = \$3200): @ \$200/day/person) to recompense First Nations artisans taking part in a UMNH session on Promontory clothing, or in CILLDI sessions. We will interview the landowner re: his family history in protecting the caves since the 1930s.

| Family name, Given name | |
|-------------------------|--|
| IVES, John | |

Funds from Other Sources
You must include all other sources of funding for the proposed research. Indicate whether these funds have been confirmed or not. Where applicable, include (a) the partners' material contributions (e.g. cash and in-kind), and (b) funds you have requested from other sources for proposed research related to this application.

| Full organization name Contribution type | Confirmed | Year 1 Year 5 | Year 2 | Year 3 | Year 4 |
|---|-----------|------------------|--------|--------|--------|
| Laboratory of Molecular Evolution, Pennsylvania State University | X | 6,500 | 6,500 | 0 | 0 |
| T 77' 1 | | 0 | | | |
| In Kind | | | | | |
| Office of Public Archaeology, Brigham Young University | X | 5,000 | 5,000 | 2,500 | 0 |
| In Kind | | 0 | | | |
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| Total funds from othe | r sources | 11,500 | 11,500 | 2,500 | 0 |
| Personal infomation will be stored in the Personal Information Rank | | 0 | | | |

Family name, Given name

IVES, John

Suggested Assessors - List up to 3 Canadian or foreign specialists whom SSHRC may ask to assess your proposal. List keywords that best describe the assessor's areas of research expertise. Please refer to the Suggested Assessors section of the detailed instructions for more information on conflicts of interest. Family name Given name Initials Title David Professor Meyer Kevwords Org. code Full organization name University of Saskatchewan Northern Plains Archaeology; Ethnohistory; Pottery; Hunter-Gatherer Ethnology Department/Division name Address 55 Campus Drive Archaeology and Anthropology Country Area Number Extension City/Municipality Prov./State Postal/Zip code Saskatoon SK S7N5B1 306 966-4178 Telephone number 11 Country CANADA 11 966-5640 Fax number 306 E-mail david.meyer@usask.ca Family name Given name Initials Title Dr. Welch John R. Org. code Full organization name Keywords Apache Archaeology; Apache Ethnohistory; Simon Fraser University Indigenous Archaeology Department/Division name Address Department of Archaeology Archaeology 8888 University Drive Extension Country Area Number City/Municipality Prov./State Postal/Zip code code code BCV5A1S6 Burnaby 778 Telephone number 11 782-6726 Country CANADA 11 778 782-5666 Fax number E-mail welch@sfu.ca Family name Given name Initials Title **Professor** Spielmann Katherine A. Org. code Full organization name Keywords Arizona State University Archaeology; Bioarchaeology; Ecology; Economic Anthropology; Exchange and Social Networks; Political Organization; Social Organization Department/Division name Address School of Human Evol. & Social Change Anthropology PO Box 872402 Extension Country Area Number City/Municipality Prov./State Postal/Zip code Tempe AZ852872402 480 Telephone number 011 965-5138 Country UNITED STATES 011 480 965-7671 Fax number E-mail kate.spielmann@asu.edu

Request of Assessor Exclusion

We request that SSHRC consider assessor exclusions for Professor (Emeritus) R. G. Matson, University of British Columbia, Dr. Martin P. R. Magne (Director, Western and Northern Service Center, Parks Canada), and Dr. Herbert Maschner, Idaho State University. Matson and Magne are co-authors of a work (Matson, R. G. and Martin P. R. Magne. 2007. Athapaskan Migrations. The Archaeology of Eagle Lake, British Columbia. University of Arizona Press) that touches on a number of themes in Dene prehistory. Ives reviewed this work (Canadian Journal of Archaeology/Journal Canadien d'Archéologie 32: 153–159 [2008]). Matson and Magne's work expresses some different viewpoints concerning Apachean and Dene migration, with competing hypotheses very strongly endorsed by Maschner. These factors might affect an unbiased review of the proposal.

APPENDIX A Environmental Impact

If you have selected "Yes" to either question a) or b) under Environmental Impact on page 1 of the printed form, Appendices A and B must be completed. Include all activities whether they will take place in Canada or abroad. This information will assist SSHRC in determining whether a screening is required under the Canadian Environmental Assessment Act (Please refer to the detailed instructions for more information.)

| Applicant family name | Applicant given name | Initials |
|-----------------------|----------------------|----------|
| IVES | John | W. |

Name of organization

University of Alberta

Application title

Apachean Origins: New Explorations of the Canadian Heritage of A. D. 13th Century Dene at Promontory Point, Utah

Name of other participating organizations (if applicable)

University of Alberta, Oxford University, Brigham Young University, Southern Methodist University, Pennsylvania State University, Desert Research Institure, Weber State College

Name of Location (Please complete an additional copy of Appendix A for EACH location at which research will be undertaken.)

Promontory Caves 1 & 2, Promontory Point, Great Salt Lake, Utah

Main characteristics of the location (i.e., physical description, coordinates)

These are the two principal caves occupied during Promontory Phase times, and they have both yielded extensive suites of perishable and non-perishable artifacts.

Name of principal activity (Please complete a copy of Appendix A for EACH principal activity at a given location: Location X - Activity 1, Location X - Activity 2, etc.; Location Y - Activity 1, Location Y - Activity 2, etc.)

Archaeological Excavations in Promontory Caves 1 & 2

Activity components (Please complete a copy of Appendix A for EACH activity component: Location X - Activity 1 - Component 1, Location X - Act. 1 - Comp. 2, etc.; Location X - Act. 2 - Comp. 1; Location X - Act. 2 - Comp. 2, etc.; Location Y - Act. 1 - Comp. 1, etc.)

With collaboration of several team participations, we will undertake strategic archaeological excavations in these two Promontory Caves. The excavations wil be as small as possible, and will not exceed a 2 x 2 meter unit in each cave.

Environmental elements affected

Excavations will take place within Promontory Caves 1 & 2; there is no vegetation. Sediments will be excavated with hand tools; sediments will be retained for further laboratory processing at Brigham Young University, the Desert Research Institute and the University of Alberta.

Description of effects

We will continue excavating small units adjoining Steward's 1930s units in each cave, so that we can apply modern techniques in assessing stratigraphy, and apply suitable sampling protocols for palaeoenvironmental studies and recovery of ancient human DNA.

Mitigation measures

Excavations will continue to proceed only with the permission of land owner Mr. George Chournos; we will meet any conditions he provides including backfiling units.

NOTE: There is a potential to generate a large number of Appendix A pages, particularly if the research will take place in several locations, with a number of principle activities and activity components at each location. **Please ensure the additional sheets of Appendix A are numbered consecutively in the space provided in the upper right corner of the form.**

APPENDIX B Canadian Environmental Assessment Act Pre-Screening Checklist

If you have selected "Yes" to either question a) or b) under Environmental Impact on page 1 of the printed form, Appendices A and B must be completed. Include all activities whether they will take place in Canada or abroad. This information will assist SSHRC in determining whether a screening is required under the *Canadian Environmental Assessment Act* (Please refer to the detailed instructions for more information.)

| Ар | plica | ant fa | amily name | Applicant given name | Initial(s) | | | |
|----------------------|--|--------|--|--|-------------------------------|--|--|--|
| IV | ES | 5 | | John | W. | | | |
| Name of organization | | | | | | | | |
| U | University of Alberta | | | | | | | |
| | Applicants are responsible for verifying whether permits are required for any of the activities listed below. Please indicate yes (Y), | | | | | | | |
| | | | ınknown (U) by selecting the appropriate box fo | | , , ,, | | | |
| | | | | | | | | |
| Υ | N | U | DES | CRIPTION OF ACTIVITY | | | | |
| Par | t 1 - | Det | termination of Physical Work under the CEAA | | | | | |
| | X | | | ruction, operation, modification, decommissioning, at sed location and is not intended to be moved frequently? | pandonment or other | | | |
| Par | t 2 - | Det | termination of Assessable Activities under the C | EAA | | | | |
| | X | | Activity takes place in a National Park or National | Nature Reserve in Canada | | | | |
| | X | | Activity takes place on First Nation lands | | | | | |
| | | X | Activity takes place in the North (Yukon, Nunavut, | or the Northwest Territories) | | | | |
| | X | | Activity takes place in or within 30 metres of the ri | ght-of-way of a power line, a natural gas line, or a railway | line | | | |
| | X | | Activity takes place in or adjacent to a water body, resulting in harmful alteration, disruption or destruction of fish habitat (including damaging or removal of aquatic vegetation) | | | | | |
| | X | | Destruction of fish other than by fishing | | | | | |
| | X | | Sampling or prospecting for minerals | | | | | |
| | X | | Disposal of a prescribed nuclear substance other | than in a laboratory equipped for such disposal | | | | |
| | X | | Deposit of a deleterious or other substance into the | e environment (in the earth, air, or water) | | | | |
| | X | | Any kind of remediation of contaminated land | | | | | |
| | X The deposit of oil, wastes or any other substances harmful to migratory birds in waters or in areas frequented by migratory birds | | | | | | | |
| | X | | Killing or removal of migratory birds, their nests, eggs, or carcasses or other physical activities that may require a permit or other authorisation under the <i>Migratory Birds Regulations</i> or <i>Migratory Bird Sanctuary Regulations</i> | | | | | |
| | X | | | ing on of agricultural activities or the disturbance or remov ife Area Regulations under the Canada Wildlife Act | al of soil in a wildlife area | | | |
| | Physical activities that are carried on in Canada and that are intended to threaten the continued existence of a biological population in an ecodistrict, either directly or through the alteration of its habitat | | | | | | | |
| | X | | Establishment or operation of a field camp in a sir | ngle location that will be used for 200 person-days or more | within a calendar year | | | |
| | X | | | nemical explosive in a single blast; or marine or freshwater e of one metre from the source would be greater than 275 | | | | |

APPENDIX B (Continued) Canadian Environmental Assessment Act Pre-Screening Checklist

| | Family name, Given name IVES, John |
|---|---------------------------------------|
| Are any provincial or federal authorizations, permits, or licences required to undertake any a them here: | , , , , , , , , , , , , , , , , , , , |
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Social Sciences and Humanities Research Council of Canada Conseil de recherches en sciences humaines du Canada

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| | | | | Internal use | rnal use CID (if known) | | | |
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| | 874686 | | | | | 18614 | | |
| Identifi | dentification | | | | | | | |
| Only the information in the Name section will be made available to selection committee members and external assessors. Citizenship and Statistical and Administrative Information will be used by SSHRC for administrative and statistical purposes only. Filling out the statistical and Administrative Information section is optional. | | | | | | | | |
| Name | | | | | | | | |
| Family nam | ne | | Given name | | Initials | Title | | |
| IVES John W. Dr. | | | | | Dr. | | | |
| Citizensl | hip - Applicants | and co-applicants must in | ndicate their citizenship status by checkir | ng and answerin | g the applica | able questions. | | |
| Citizenship status | Total did in the state of the s | | | | | | | |
| | | | | | _ Ye | es ONo | | |
| | | | | | | | | |
| Statistic | al and Admir | nistrative Informatio | <u>n</u> | | | | | |
| Birth year | Gender | Permanent postal code in Canada (i.e. K2P1G4) | Correspondence language Previous contact with SSHRC (i.e. applicant, assessor, etc.) | | | | | |
| 1952 | ○F ●M | T6W1J2 | ● English | | | | | |
| Full name ι | used during prev | ous contact, if different fro | om above | | | | | |

| Contact Information The following information will help us to contact you more rapidly. Secondary information will not be released by SSHRC without your express consent. | | | | | | | |
|--|--------------|-------------------|-----------|----------------------|--------------|-------------|-----------|
| Primary | telepho | ne number | | Second | lary telep | hone number | |
| Country code | Area code | Number | Extension | Country code | Area code | Number | Extension |
| | 780 | 248-2082 | | | 780 | 492-0139 | |
| Primary | fax num | nber | | Secondary fax number | | | |
| Country code | Area code | Number | Extension | Country code | Area code | Number | Extension |
| | 780 | 492-5273 | | | | | |
| Primary | E-mail | jives@ualberta.ca | | | | | |
| Secondary E-mail | | | | | | | |

Do not photocopy this page.

Family name, Given name

IVES, John

| Current Address Use only if you are not affiliated with a department at a Canadian university. (If you are affiliated with a department at a Canadian university, the department's mailing address will be used.) If you wish to use another address, specify it under the Correspondence Address. | | | Correspondence Address Complete this section if you wish your correspondence to be sent to an address other than your current address. | | | |
|--|------------------|-----------------|--|------------------|-----------------|--|
| Address | | | Address Department of Anthropology | | | |
| | | | University of Alberta | | | |
| | | | 14-15 H. M. Tory | | | |
| City/Municipality | Prov. / State | Postal/Zip code | City/Municipality Edmonton | Prov. / State | Postal/Zip code | |
| Country | I | | Country CANADA | | | |
| Temporary Address If providing a temporary address, phoensure that you enter the effective date. | | l/or E-mail, | Permanent Address in CANADA | | | |
| Address | | | Address 922 Blackmud Creek Crescent | | | |
| | | | | | | |
| City/Municipality | Prov./ State | | City/Municipality Edmonton | Prov./ State | | |
| | | | | AB | T6W1J2 | |
| Country | | | Country CANADA | | | |
| Start date End date (yyyy/mm/dd) (yyyy/mm/dd) | | | Temporary telephone/fax number Country Area Number code code | Extension | n | |
| Temporary E-mail | | | | | | |

Conseil de recherches en sciences humaines du Canada

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Family name, Given name
IVES, John

| Research Expertise (optional) |
|-------------------------------|
|-------------------------------|

The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of Research

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

| Rank | Code | Area |
|------|------|-------------------------------------|
| 1 | 300 | Multiculturalism and ethnic studies |
| 2 | 240 | Indigenous peoples |
| 3 | 100 | Arts and culture |

Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

| From | То |
|-----------------|---|
| Year BC AD ○ ○ | Year ——————————————————————————————————— |

Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

| app. | ioabio, iriaioate | and talk up to a geographical regions severed by your resourch interests. Explicate chance are not permitted. |
|------|-------------------|---|
| Rank | Code | Region |
| 1 | 1000 | North America |
| 2 | 6200 | East Asia |
| 3 | 1130 | Western Canada |

Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

| Rank | Code | Countries | Prov./ State |
|------|------|---------------|-----------------|
| 1 | 1100 | CANADA | |
| 2 | 1200 | UNITED STATES | |
| 3 | 6201 | CHINA | |
| 4 | | | |
| 5 | | | |

Conseil de recherches en sciences humaines du Canada

Family name, Given name IVES, John

| Language Pro | oficiency | | | | | | | |
|---|---------------------------------|------------|-------------------|-----------------|--------------|-------------------------|----------------------|-----------------------|
| Read | Write | Speak | Comprehend a | aurally | Other lan | guages | | |
| English X | X | X | × | | | | | |
| French | Ш | | | | | | | |
| Work Experient List the positions, acchronological order, | ademic and non- | | ou have held begi | inning with the | e current po | sition and all previous | positions in re | everse |
| Current position | | | | | | | | Start date (yyyy/mm) |
| Exec Dir, Inst | of Prairie Ar | chaeology | 7 | | | | | 2008/3 |
| Org. code | Full organization | n name | | | | | | |
| 1480111 | University of | of Alberta | | | | | | |
| Department/Division | name | | | | | | | |
| Anthropology | | | | | | | | |
| Position type | Tenured | ○ No | n-tenure | Employmen | t status | Full-time | Part-tii | me |
| | Tenure-track | ○ No | n-academic | | | Non-salaried | O Leave | of absence |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) |
| Full Professor | | | | | | | 2007 | , |
| Org. code | Full organization | n name | | | | | | |
| 1480111 | University | of Alberta | ı | | | | | |
| Department/Division | name | | | | | | | |
| Anthropology | | | | | | | | |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) |
| Manager & Pr | ovincial Arcl | haeologist | | | | | 2001 | 2007 |
| Org. code | Full organization | n name | | | | | | |
| 1 | 1 Alberta Community Development | | | | | | | |
| Department/division name | | | | | | | | |
| Heritage Resource Management Branch (Archaeology & History) | | | | | | | | |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) |
| Assistant Dire | ctor | | | | | | 1990 | 2001 |
| Org. code | Full organization | n name | | | | | | |
| 1 | Royal Albe | erta Museı | ım/Provincia | al Museum | of Albe | erta | | |
| Department/Division | name | | | | | | | |
| Archaeology a | Archaeology and Ethnology | | | | | | | |
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| Family name, Given name | |
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| IVES, John | |

| Position Stand date of position Director 1986 1990 Org. code Full organization name 1 A Alberta Culture Position Start date of copyophisms End date opyophisms Position Start date of copyophisms Position Head of Research 1985 1986 Org. code Full organization name Start date of copyophisms 1985 Position Start date of copyophisms Start date of copyophisms Position Org. code Full organization name 1 Alberta Culture Position Start date of copyophisms Position Start date of copyophisms Position Position Start date of copyophisms Position Start date of copyophisms Position Position Start date of copyophisms Position Position Start date of copyophisms Position Position Start date of copyophisms | Work Experie | ence (cont'd) | | | | |
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| Director 1986 1990 Org. code Full organization name 1 1 Alberta Culture | Position | | | | | |
| Alberta Culture | Director | | | | | |
| Department/Division name | Org. code | Full organization name | | | | |
| Archaeological Survey of Alberta Position Start date (9999/mm) 1985 1985 | 1 | Alberta Culture | | | | |
| Position | Department/Division | name | | | | |
| Head of Research (yyyy/mm) 1985 (yyyy/mm) 1979 (yyyy/mm) 1985 | Archaeological | Survey of Alberta | | | | |
| Head of Researt 1985 1986 Org. code Full organization name 1 Alberta Culture Department/Division name Archaeological Survey of Alberta Start date (vyyy/mm) (vyyy/mm) End date (vyyy/mm) 1985 Org. code Full organization name 4 Archaeological Culture Position Start date (vyyy/mm) End date (vyyy/mm) 1979 1985 Org. code Full organization name 4 Archaeological Survey of Alberta Department/Division name Alberta Culture Alberta Culture Position Start date (vyyy/mm) End date (vyyy/mm) Org. code Full organization name End date (vyyy/mm) Org. code Full organization name End date (vyyy/mm) | Position | | | I | | |
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| Department/Division name | | | | | | |
| | Department/Division | name | | | | |
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| | | | | | | |

| Family name, Given name | |
|-------------------------|--|
| IVES, John | |

| Academic B | | | | |
|----------------------|---|-------------------------|---------------------------------|---------------------------|
| List up to 5 degrees | , beginning with the highest degree first and all others in reverse chronologic | al order, bas | sed on the start of | date. |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | (yyyy/mm) |
| Doctorate | | 1977/09 | | 1985/11 |
| Disc. code | Discipline | | Did SSHRC su you to get this | |
| 60200 | Anthropology | | Yes | No |
| Org. code | Organization | | | |
| 9938101 | University of Michigan, Ann Arbor | | | |
| Country UNITED | STATES | | | |
| Degree type | Degree name | Start date | | Awarded date |
| Master's | | (yyyy/mm) 1975/09 | (yyyy/mm) | (yyyy/mm) 1977/05 |
| Disc. code | Discipline | 1913/09 | Did SSHRC su | |
| 2.00. 0000 | 2.66. | | you to get this | |
| 60200 | Anthropology | | Yes | ● No |
| Org. code | Organization | | | |
| 1480111 | University of Alberta | | | |
| CANAD | OA . | | | |
| Degree type | Degree name | Start date | Expected date | Awarded date |
| BA Hon. | | (yyyy/mm) 1970/09 | (yyyy/mm) | (yyyy/mm) 1974/05 |
| Disc. code | Discipline | | Did SSHRC su you to get this | |
| 60200 | Anthropology | | Yes | ● No |
| Org. code | Organization | | | |
| 1470111 | University of Saskatchewan | | | |
| CANAD | OA . | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) |
| Disc. code | Discipline | | Did SSHRC su you to get this | |
| | | | Yes | No |
| Org. code | Organization | | | |
| Country | | | | |
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| | | | you to get this | degree? |
| Org. code | Organization | | | <u> </u> |
| - | | | | |
| Country | | | | |

Family name, Given name

IVES, John

Credentials

List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

| , | | | | |
|----------------|---------------------------------|-------------------|----------------------|-------------------------|
| Category | Name | Source or Country | Duration (Months) | Value / Year awarded |
| Non-Academic | Premier's Award (Silver), Black | | | |
| Prize | Dragon Exhibition | | | 2000 |
| Non-Academic | Premier's Award (Gold), | | | |
| Prize | Aboriginal Peoples Gallery | | | 1998 |
| Academic Prize | Horace H. Rackham | UNITED STATES | | |
| | Distinguished Dissertation | | | 1985 |
| Fellowship | SSHRC Doctoral Fellowship | | 12 | \$6,000 |
| | | | 12 | 1978 |
| Graduate | University of Michigan, Tuition | | 12 | \$3,000 |
| Scholarship | Scholarship | | 12 | 1978 |
| Fellowship | Canada Council Doctoral | | 24 | \$6,000 |
| | Fellowship | | 27 | 1977 |

Research Expertise

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

Plains and Subarctic prehistory; Athapaskan and Algonquian social structure and economy; migration; prehistory of northeast Asia; public archaeology and resource management; issues in repatriation and reburial; ethnohistory; palaeoecology

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

| Rank | Code | Discipline | If Other, specify |
|------|-------|--|-------------------|
| 1 | 60424 | Paleoanthropology, Ethnoarchaeology, Paleoethnology | |
| 2 | 60418 | Material Culture (incl. burials) | |
| 3 | 60414 | Hunters and Gatherers | |
| 4 | 60432 | Trade and Trade Routes, Culture Contact, Cultural Relations | |
| 5 | 60428 | Settlement Patterns, Land Use, Paleodemography | |

| Family name, Given name | |
|-------------------------|--|
| IVES, John | |

| Funded | Research | | | | | | |
|--|---|-----------------------------|----------------------|----------------------|--|--|--|
| | grants or contracts you have received from SSHR d. If you are not the applicant (principal investiga | | chronological order, | based on the | | | |
| Org. code | Full name of funding organization Social Sciences and Humanities R | Jacobrah Council of Conedo | Year awarded (yyyy) | Total amount (CAN\$) | | | |
| 3010325 | Social Sciences and Humanines K | Research Council of Canada | 2010 | \$52,592 | | | |
| Role | Applicant | | Completion status | Complete | | | |
| Apachean Origins: Exploring the Canadian Heritage of A. D. 13th Century Dene at Promontory Point, Utah | | | | | | | |
| Applicant's f | amily name | Applicant's given name | Initials | | | | |
| Ives | | John | W. | | | | |
| Org. code | Full name of funding organization | | Year awarded | Total amount | | | |
| | Historic Resources Management I | Branch, Alberta Culture and | (yyyy) | (CAN\$) | | | |
| 1 | Community Spirit | | 2009 | \$4,500 — | | | |
| Role | Applicant | | Completion status | X Complete | | | |
| Project title Radiocarbon Dating of Bodo Archaeological Site, Alberta | | | | | | | |
| Applicant's f | amily name | Applicant's given name | | Initials | | | |
| Org. code | Full name of funding organization | | Year awarded | Total amount (CAN\$) | | | |
| 1 | Historic Resources Management I Community Spirit | Branch, Alberta Culture and | 2008 | \$2,500 | | | |
| Role | Applicant | | Completion status | X Complete | | | |
| Project title AMS Radiocarbon Dating of Promontory Moccasins, Utah | | | | | | | |
| Applicant's f | amily name | Applicant's given name | | Initials | | | |
| Org. code | Full name of funding organization | | Year awarded | Total amount (CAN\$) | | | |
| 1 | U. S. National Science Foundation | 2008 | \$825,000 | | | | |
| Role Collaborator | | | Completion status | Complete | | | |
| Project title | Dynamics of Hunter-Gatherer Lang | guage Change | , | | | | |
| ŕ | Dynamics of Trancer Gatherer Dan | guage Change | | | | | |
| Applicant's f | amily name | Applicant's given name | | Initials | | | |
| Bowern | | Claire | | | | | |

Family name, Given name

IVES, John

| Funded | Research (cont'd) | | | | |
|-----------------|---|-------------------------------|-------------------------|-----------------------------|--|
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| Org. code | Full name of funding organization | | Year awarded | Total amount (CAN\$) | |
| 1 | University of Alberta | | 2008 | \$41,000 | |
| Role | A 1: | | <u></u> | | |
| | Applicant | | Completion statu | S X Complete | |
| Project title | Enhancement Fund for the Future | | | | |
| | | T | | 1 | |
| Applicant's f | amily name | Applicant's given name | | Initials | |
| Org. code | Full name of funding organization | | Year awarded | Total amount | |
| 1 | Historic Resources Management | Branch, Alberta Culture and | (yyyy) 2000 | (CAN\$) | |
| 1 | Community Spirit | | 2008 | \$3,000 | |
| Role | Applicant | | Completion statu | s X Complete | |
| Project title | Radiocarbon Dating of Bodo Arch | aeological Site, Alberta | | | |
| Applicant's f | amily name | Applicant's given name | | Initials | |
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| Org. code | Full name of funding organization | | Year awarded | Total amount | |
| | Feasibility Study Grant, Canadian | Museums Association | (yyyy) 1,00 2 | (CAN\$) | |
| 1 | | | 1992 | \$42,000 | |
| Role | Co-applicant | | Completion statu | s X Complete | |
| Project title | Bridge of the Black Dragon | | | | |
| | | | | | |
| Applicant's f | amily name | Applicant's given name | | Initials | |
| McGilliv | ray | Bruce | | | |
| Org. code | | | | | |
| 1 | Short Term Study Grant, Canadian Museums Association (yyyy) | | | (CAN\$) | |
| 1992 | | | | \$3,500 s X Complete | |
| | Role Applicant Completion status X | | | | |
| Project title | Exhibition Feasibility Study, Instit Sciences, Moscow | tute of Ethnology and Anthrop | oology, Russia | n Academy of | |
| Applicant's f | amily name | Applicant's given name | | Initials | |
| | | | | | |

1. Research Contributions over the Last Six Years (* = SSHRC-funded research)

A. Refereed Contributions

- **R** Ives, J. W., E. J. Vajda and S. Rice. 2010. Dene-Yeneseian and Processes of Deep Change in Kin Terminologies. *Anthropological Papers of the University of Alaska*, Volume 5(1-2):223-256. Special Issue, *The Dene-Yeneseian Hypothesis*, ed. by J. Karie and B. Potter.
- **R** Ives, J. W. 2010. Dene-Yeneseian, Migration and Prehistory. *Anthropological Papers of the University of Alaska*, Volume 5 (1-2):324-334. Special Issue, *The Dene-Yeneseian Hypothesis*, ed. by J. Kari and B. Potter.
- R Ives, J. W., 2006. 13,001 Years Ago—Human Beginnings in Alberta. In *Alberta Formed, Alberta Transformed*, Alberta's 2005 Centennial History Volume, ed. by M. Payne, D. Wetherell, and C. Cavanaugh, Volume 1, pp. 1-34. Calgary & Edmonton: University of Calgary and University of Alberta Presses.

B. Other Refereed Contributions (Refereed Conference Presentations)

- **R** Ives, J. W. 2011. Resolving the Promontory Culture Enigma. 76th Annual Meeting of the Society for American Archaeology, March 29-April 3, 2011, Sacramento. For the Symposium *Advances in Great Basin and Southwestern Archaeology: Papers in Honor of Don D. Fowler*. (Invited.)
- R Eiselt, S. and J. W. Ives, J. W. 2011. Kinship—the Unattended Dimension of Paleoindian Studies. 76th Annual Meeting of the Society for American Archaeology, March 30-April 3, Sacramento. For the Symposium *Questioning Assumptions: Celebrating the Work and Influence of John D. Speth.* (Invited.)
- R Ives, J. W. 2007. Three R's of Traditional Use Studies—Rights, Responsibilities, and Reliability. Fourth Interjurisdictional Symposium on Aboriginal Involvement in Resource Development (Canada). September 10-13, Edmonton. (Invited.)
- R Ives, J. W. 2007. Insights into the Apachean Transition from the Subarctic Using Ceramic and Food Term Etymologies. Ceramics, Mobility and Interactions in Late Prehistory, session organized by Dr. Margaret Beck, UCLA. 72nd Annual Meeting of the Society for American Archaeology, Austin, Texas. (Invited.)
- R Ives, J. W. and S. Rice. 2006. "Correspondences in Archaeological, Linguistic and Genetic Evidence for Apachean History." Poster Session, *Languages and Genes*, *An Interdisciplinary Conference*, University of California, Santa Barbara, September 6-10, 2006, (Organizers Bernard Comrie and Carol Genetti, Max Planck Institute/Department of Linguistics, University of California, Santa Barbara).

C. Non-refereed Contributions

- Ives, J. W. "Living in the Moment—Northern Alberta Assemblages Reflecting Instants in Time." 43rd Annual Meeting of the Canadian Archaeological Association/Annual Meeting of the Archaeological Society of Alberta. April 29-May 1, 2010, Calgary, Alberta.
- Ives, J. W. 2010. "Thinking Dene Thoughts About the Earliest Human Presence in the New World." Dynamics of Hunter-Gatherer Language Change, U. S. NSF Project Workshop, University of Arizona, Tucson, March 5-7, 2010.
- Ives, J. W. 2009. "Holes in our Stories. Reflections on Archaeological and Linguistic Information for Apachean Migration from the Canadian Subarctic." Dene Migration Workshop, Tsuut'ina First Nation/University of Alberta (Calgary Centre). September 25-27, 2009.

- Ives, J. W. 2009. "Archaeological, Linguistic and Genetic Evidence for Apachean Migration from the Canadian Subarctic." *Dynamics of Hunter-Gatherer Language Change*, U. S. NSF Project Workshop, Austin, Texas, March 26-28.
- Ives, J. W. 2009. "Technological Thresholds and Dene Language History." *Dynamics of Hunter-Gatherer Language Change*, U. S. NSF Project Workshop, Austin, Texas, March 26-28.
- Ives, J. W. 2008. Review of *Athapaskan Migrations*. The Archaeology of Eagle Lake, British Columbia, by R. G. Matson and Martin P. R. Magne. University of Arizona Press. *Canadian Journal of Archaeology* 32:153-159.
- Ives, J. W. 2008. Discussant Remarks, Ways of Becoming: Dynamic Processes in the Creation of Athapaskan Identities and Landscapes, 73rd Annual meeting of the Society for American Archaeology, Vancouver, British Columbia, March 26-30.
- Ives, J. W. 2008. "Three Collaborative Contexts in Which Dene-Yeneseic Connections Can be Assessed." The Dene-Yeneseic Symposium, 35th Annual Meeting, Alaska Anthropological Association, Feb. 27-Mar. 1, Anchorage.
- Ives, J. W. 2007. "A Hell Gap Assemblage from the Peace River Prairie/Parkland Isolate, Northwestern Alberta." 65th Plains Anthropological Conference (Rapid City, South Dakota), 10-13 October.
- Ives, J. W. 2006. "Terms of Engagement—Themes in Heritage Consultation with Alberta First Nations." 39th Annual Chacmool Conference, *Decolonizing Archaeology*. November 11-14, University of Calgary.
- Ives, J. W. 2006. "A Mile in These Shoes—How Apachean Ancestors Arrived in the American Southwest." Yukon Science Institute public lectures; presentations at the Beringia Centre (White Horse) and Yukon schools, November 5-8.
- Ives, J. W. 2006. "Wayward Geese, Steppe Wolves, and Forest Tigers—Ethnogenesis, Language and Technological Thresholds in Athapaskan and Altaic Contexts." Dene Language Conference, Yellowknife, NWT, Canada, June 12-15.
- Ives, J. W. and D. Bereziuk, 2006. "Large Stemmed Points from the Peace River Country, Northwestern, Alberta." 39th Annual Canadian Archaeological Association Meetings, Toronto, Ontario, May 25-27.

D. Forthcoming Contributions

- **R*** Ives, J. W. **Submitted.** Resolving the Promontory Culture Enigma. *Advances in Great Basin and Southwestern Archaeology: Essays in Honor of Don Fowler*, ed. by J. C. Janetski and N. Parezo. University of Utah Press.
- **R*** Ives, J. W. **Submitted.** A Contextual Approach to Apachean Origins. *Canadian Journal of Archaeology*.
- **R** Ives, J. W. **Submitted.** Moving Toward Repatriation. In "I'm Coming Home". Blackfoot Repatriation of Sacred Material, ed. by Gerald Conaty. Athabasca University Press.
- R Ives, J. W. Revised and Submitted. The Human History of the Birch Mountains, Northeastern Alberta. Chapter for a volume on *Oil Sands Archaeology*, ed. by B. M. Ronaghan, Archaeological Survey of Alberta, for University of Alberta Press.

2. Other Research Contributions

Executive Director, *Institute of Prairie Archaeology*, Faculty of Arts, University of Alberta, a multifaceted role in which I foster outreach activities to not-for-Profit organizations (e.g.,

- Archaeological Society of Alberta; Association of Consulting Archaeologists in Alberta), continue involvement with the ever-popular Royal Alberta Museum of Alberta Time Travellers International Lecture Series), build relationships with Treaty 6, 7, 8 and First Nations communities, oversee, teach and report upon the Department of Anthropology's archaeological field school at Ahai-Mneh (FiPp-33) (managing relationships with Paul First Nation, Transalta and the Rangeland Research Institute, Faculty of Agriculture, Land and Environmental Sciences), serve as a University of Alberta Senator and support initiatives such as USchool, bringing inner city children and parents to the University—familiarization designed to help make University education an attainable goal. (2008-Present)
- Workshop Co-Organizer. Dene Migration Workshop. A meeting of Canadian, American and European scholars with Navajo, Apache, various Canadian Dene community representatives. With Bruce Starlight, *Tsuut'ina Gunaha Institute* and Sally Rice, Department of Linguistics. *Tsuut'ina First Nation/University of Alberta (Calgary Centre)*. (September 25-27, 2009)
- External Committee Member, Unit Review of George Frison Institute of Archaeology, University of Wyoming. (February-March 2009)
- <u>Design, Drafting, and Coordination through University of Alberta Governance</u> of Proposal to Create an *Institute of Prairie Archaeology*, University of Alberta, approved by Provost. (July 2007 through May 18, 2008)
- Ministry Team Lead, Cross-ministry drafting and coordinating committees for the Government of Alberta's First Nations Consultation Policy on Land Management and Resource Development and the Government of Alberta's First Nations Consultation Guidelines on Land Management and Resource Development (2006, building upon my previous experience with Alberta's repatriation legislation).

3. Most Significant Career Research Contributions

- **R** Ives, J. W. 1990. *A Theory of Northern Athapaskan Prehistory*. Boulder/Calgary: Westview Press & University of Calgary Press.
 - A Canadian-American co-publication based on an award-winning University of Michigan dissertation, on the impact of elementary kin structures on band societies.
- R Ives, J. W. 1998. Developmental processes in the Pre-Contact History of Athapaskan, Algonquian and Numic kin systems. In *Transformations of Kinship, the Round Table: Dravidian, Iroquois and Crow-Omaha Kinship Systems*, ed. by Maurice Godelier Thomas R. Trautmann, and Franklin Tjon Sie Fat, pp. 94-139. Washington and London: Smithsonian Institution Press.
 - A volume that helped restore kinship to its pre-eminent role in anthropological theory.
- **R** Ives, J. W. 2010. Dene-Yeneseian, Migration and Prehistory. *Anthropological Papers of the University of Alaska*, Volume 5 (1-2):324-334. Special Issue, *The Dene-Yeneseian Hypothesis*, ed. by J. Kari and B. Potter.
 - Part of a volume that established the reality of a Dene-Yeniseian language family.
- **R** Peck, T. R. and J. W. Ives. 2001. Late Side-Notched Projectile Points in the Northwestern Plains. *Plains Anthropologist* 46 (176): 163-193.
 - A re-writing (with graduate student) of late period northern Plains projectile typology.
- R Ives, J. W., 2006. 13,001 Years Ago—Human Beginnings in Alberta. In *Alberta Formed, Alberta Transformed*, Alberta's 2005 Centennial History Volume, ed. by Michael Payne et al. Calgary & Edmonton: University of Calgary/Alberta Presses. The opening paper in a unique centennial volume in planning for a decade.

4. Career Interruptions and Special Circumstances

I assumed my first academic appointment in July 2007, after previously serving in various senior management roles with the Government of Alberta.

5. Contributions to Training over the Last Six Years

PhD

- T. Kristensen. Research on the relationship between base camps at lower altitude fish lakes and perishable artifacts found at high altitude ice patch loci in the NWT. (Supervisor, 2011)
- K. Biittner. Characterization of Middle and Later Stone Age Lithic Artifacts from Two Rockshelter Sites in Iringa Region, Southern Tanzania. (Defence Examiner, 5 May 2011)
- V. Bowyer. Caribou Hunting at Ice Patches: Seasonal Mobility and Long-term Land-Use in the Southwest Yukon. (Committee Member, successful defence, 2 April 2011)
- J. Taylor-Holling. Research into Selkirk Composite ceramics in northwestern Ontario. (Committee Member, Candidacy Examiner, 2009).
- M. Caldwell. Research concerning prehistoric and historic Tla'ammen fish trap technology, British Columbia. (Committee Member, from 2009; successful Candidacy 22 April 2010).
- M. Billinger. 2006. *Beyond the Racial Paradigm: New Perspectives on Human Biological Variation*. Department of Anthropology, University of Alberta. (Defence Examiner).

MA

- A. Reilly. Hide preparation technology in the Promontory Cave assemblages; ethnographic and archaeological study of hide preparation artifacts in western Canada. (Supervisor 2011)
- R. Graham. Research into the contribution of horticultural products to diet and society in northern Plains bison hunting cultures. (Supervisor 2011)
- G. Yanicki. Research into the Old Man's Playing Field and the nature of prehistoric social interaction at the Continental Divide, southwestern Alberta. (Supervisor, 2009).
- P. Stewart. Swan River Chert and its alteration through heat treatment. (Supervisor, 2009).
- Q. Bender. *The Nature and Context of Agate Basin Archaeology in Alberta and Saskatchewan, Canada*. (Committee Member, 2009, through completion 21 July 2010).

Student Involvement in Research: T. Kristensen's work that will draw directly on my experience with Subarctic prehistory and Dene economies; his NWT research should allow for effective interplay with G. Yanicki and especially A. Reilly; G. Yanicki has taken part in data base and collections research connected with the Promontory collections, took part in April 2011 field excavations at Promontory Cave 1, and has been accepted for PhD work concerning Fremont-Promontory relationships contingent upon completion of his MA in late 2011; A. **Reilly** is developing research concerning hide production with existing and new Promontory collections, as well as ethnoarchaeological and distributional data (for artifacts such as chi-thos) in western Canada; R. Graham can develop a horticultural-Plains bison hunting interaction research focus concerning Fremont-Plains (including Apachean) interaction; former PhD student **Dr. M. Billinger** has co-authored several posters and presentations on the Promontory caves with me; we are currently completing research for a co-authored article "Moccasin Size and Population Structure of the A.D. 13th Century Promontory Cave Occupations" for submission to the American Journal of Physical Anthropology. I worked intensively with undergraduate and graduate students on contributions arising from archaeological field school research (publications in our new student journal, Diversipede, and contributions to the Archaeological Society of Alberta 2011 meetings). I plan to involve **Dr. V. Bowyer** in analyses of bison and sheep dung from Promontory Cave 1 deposits for indicators of seasonality.

Social Sciences and Humanities Research Council of Canada Conseil de recherches en sciences humaines du Canada

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| Identification | | | | | | | | | |
| Only the information in the Name section will be made available to selection committee members and external assessors. Citizenship and Statistical and Administrative Information will be used by SSHRC for administrative and statistical purposes only. Filling out the statistical and Administrative Information section is optional. | | | | | | | | | |
| Name | | | | | | | | | |
| Family name | | | | Giver | n name | | Initials | Title | |
| arkush | rkush brooke s. Dr. | | | | | | Dr. | | |
| Citizenship - Applicants and co-applicants must indicate their citizenship status by checking and answering the applicable questions. | | | | | | | | | |
| Citizenship Canadian Permanent resident since (yyyy/mm/dd) Other (country) Have you applied for permanent residency? | | | | | | | | | |
| | UNITED STATES OYes No | | | | | es No | | | |
| Statistical and Administrative Information | | | | | | | | | |
| Birth year | Gender | | Permanent postal code in Canada (i.e. K2P1G4) | | | | | | |
| 1961 | OF | ● M | | ● English | | | | | |
| Full name ι | used durino | g previou | us contact, if different fro | m abo | ove | | | | |

| Primary | telepho | ne number | | Second | ary telep | phone number | |
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| Country | Area code | Number | Extension | Country | Area code | Number | Extension |
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| Country code | Area code | Number | Extension | Country code | Area code | Number | Extension |
| | 801 | 626-8979 | | | | | |
| Primary | E-mail | barkush@wel | ver edu | | | | |

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Family name, Given name arkush, brooke

| Current Address Use only if you are not affiliated with a university. (If you are affiliated with a university, the department's mailing ac wish to use another address, specify it Address. | department at a ddress will be u | a Canadian used.) If you | Correspondence Ad Complete this section if you wisl to an address other than your cu | h your corresponde | nce to be sent | | |
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| Address 1208 University Circle | | | Address | | | | |
| Weber State University | | | | | | | |
| City/Municipality Ogden | Prov. / State | Postal/Zip code | City/Municipality | Prov. / State | Postal/Zip code | | |
| Country UNITED STATES | 1 | | Country | | | | |
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Conseil de recherches en sciences humaines du Canada

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Family name, Given name arkush, brooke

| Research Expertise (optic | onal) | |
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The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of ResearchIndicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

| Rank | Code | Area |
|------|------|------|
| 1 | | |
| 2 | | |
| 3 | | |

Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

| From | То |
|---|---------------------|
| Year ——————————————————————————————————— | Year BC AD ○ ● ○ ○ |

Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

| - 11 | , | |
|------|------|---------------|
| Rank | Code | Region |
| 1 | 1000 | North America |
| 2 | | |
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Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

| Rank | Code | Countries | Prov./ State |
|------|------|-----------|-----------------|
| 1 | | | |
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| 4 | | | |
| 5 | | | |

Curriculum Vitae

Family name, Given name

| Curriculum Vitae arkush, brooke | | | | | | | | | |
|--|---------------------|----------|-------------------|----------------|-------------|--------------------------|----------------------|-----------------------|--|
| Language Proficiency | | | | | | | | | |
| Read English X French | Write X | Speak X | Comprehend a | urally | Other la | nguages | | | |
| Work Experie List the positions, ac chronological order, | cademic and non-ac | | ou have held begi | nning with the | e current p | osition and all previous | positions in re | everse | |
| Current position | | | | | | | | Start date (yyyy/mm) | |
| Full Professor | | | | | | | | 1990/7 | |
| Org. code | Full organization n | ame | | | | | | | |
| 9977108 | Weber State 1 | Univers | ity | | | | | | |
| Department/Division | name | | | | | | | | |
| Anthropology | and Sociology | | | | | | | | |
| Position type | Tenured | ○ No | on-tenure | Employmen | t status | Full-time | O Part-ti | me | |
| | Tenure-track | ○ No | on-academic | | | Non-salaried | Leave | of absence | |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) | |
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| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) | |
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| Department/Division | ı name | | | | | | | | |

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| Academic B | - | | | |
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| List up to 5 degrees | s, beginning with the highest degree first and all others in reverse chronologic | | sed on the start of | date. |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) |
| Doctorate | doctor of philosophy | 1984/01 | | 1989/08 |
| Disc. code | Discipline | | Did SSHRC su you to get this | |
| 60200 | Anthropology | | Yes | No |
| Org. code | Organization | | | |
| 9983104 | University of California, Riverside | | | |
| Country UNITEI | STATES | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) |
| Disc. code | Discipline | | Did SSHRC su you to get this | degree? |
| Org. code | Organization | | Yes | ○ No |
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| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) |
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| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) |
| Disc. code | Discipline | | Did SSHRC su you to get this | degree? |
| | | | Yes | ○ No |
| Org. code | Organization | | | |
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| Family name, Given name | |
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| Credentia | |
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List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

| Category | Name | Source or Country | Duration (Months) | Value / Year awarded |
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Research Expertise

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

western North American prehistory and colonial history; semi arid forager settlement and subsistence systems; communal big-game hunting

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

| Rank | Code | Discipline | If Other, specify |
|------|-------|------------|-------------------|
| 1 | 60426 | Prehistory | |
| 2 | | | |
| 3 | | | |
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| 5 | | | |

1. Research Contributions over the Last Six Years

ARKUSH, Brooke S.

A. Refereed Contributions

R Arkush, Brooke S. 2011. Native Responses to European Intrusion: Cultural Persistence and Agency Among Mission Neophytes in Spanish Colonial Northern California. (In press, *Historical Archaeology* 45[4])

B. Other Refereed Contributions (Refereed Conference Presentations)

R Arkush, Brooke S. 2005. Prehistoric Settlement Systems in Southeastern Idaho: A View from the Curlew Valley. Read at the 70th Annual Meeting of the Society for American Archaeology, Salt Lake City, Utah.

C. Non-refereed Contributions

- Arkush, Brooke S., and W. Sue Fairbanks. 2005. Review of "Prairie Ghost: Pronghorn and Human Interaction in Early America" by Richard E. McCabe, Bart W. O'Gara, and Henry M. Reeves. The Journal of Wildlife Management 69(4):1754-1756.
- Arkush, Brooke S. 2006. Review of "Camels Back Cave" by Dave N. Schmitt and David B. Madsen (University of Utah Anthropological Paper No. 125). *Journal of California and Great Basin Anthropology* 26(2):109-111.
- Arkush, Brooke S. 2008. The Archaeology of Standing Rock Overhang: A Long-Term Record of Bighorn Sheep Hunting and Processing in Southeastern Idaho. Ogden, Utah: *USDA Forest Service, Intermountain Region Heritage Report 3-06*.
- Arkush, Brooke S. 2009. Review of "Ancient Peoples of the Great Basin and Colorado Plateau" by Steven R. Simms. *Idaho Archaeologist* 32(1):11-12.
- Arkush, Brooke S. 2006. The Archaeology of Standing Rock Overhang: A Long-Term Record of Bighorn Sheep Hunting and Processing in Southeastern Idaho. Read at the 30th Biennial Great Basin Anthropological Conference, Las Vegas, Nevada.
- Arkush, Brooke S. 2007. Recent Excavations at Trapper Cliff Shelter: A Riparian Zone Habitation Site in Cassia County, Southcentral Idaho. Read at the Eighth Biennial Rocky Mountain Anthropological Conference, Jackson, Wyoming.
- Arkush, Brooke S. 2008. The Archaeology of Trapper Cliff Shelter: A Late Holocene Residential Base Camp in Cassia County, Southcentral Idaho. Read at the 31st Biennial Great Basin Anthropological Conference, Portland, Oregon.

- Arkush, Brooke S. 2010. Native Responses to European Intrusion: Cultural Persistence and Agency Among Mission Neophytes in Spanish Colonial Northern California. Poster presented at the 44th Annual Meeting of the Society for California Archaeology, Riverside, California.
- Arkush, Brooke S. 2010. Recent Excavations at 10-OA-275: A Big Game Processing Camp on the Curlew National Grassland, Southeastern Idaho. Read at the 32nd Biennial Great Basin Anthropological Conference, Layton, Utah.

D. Forthcoming Contributions

- Arkush, Brooke S. The Archaeology of Trapper Cliff Shelter: A Late Holocene Residential Base Camp in Cassia County, Southcentral Idaho. To be submitted to the *USDA Forest Service, Intermountain Region Heritage Reports*.
- Arkush, Brooke S. Communal Pronghorn Hunting in the Great Basin: What Have We Learned Over the Last 25 Years? In: Firm Guidance From A Kind Soul: Essays in Honor of Philip J. Wilke, Mark Q. Sutton, ed. *Pacific Coast Archaeological Society Quarterly*.

2. Other Research Contributions

Editorial Board Member, *Boise State University Monographs in Archaeology*, 2001 - 2005

Editorial Board Member, Monographs in Idaho Archaeology and Ethnology, 1995 - 2000

3. Most Significant Career Research Contributions

Arkush, Brooke S. 1995. The Archaeology of CA-MNO-2122: A Study of Pre-Contact and Post-Contact Lifeways Among the Mono Basin Paiute. *University of California Anthropological Records* Vol. 31. Berkeley.

A monograph concerning a major prehistoric and early historic Northern Paiute residential locality in eastcentral California.

Arkush, Brooke S. 1998. Archaeological Investigations at Mosquito Willie Rockshelter and Lower Lead Mine Hills Cave, Great Salt Lake Desert, Utah. *Coyote Press Archives of Great Basin Prehistory No. 2.* Salinas, California. A monograph concerning two important prehistoric residential sites located in the Blue Lake area along the Utah/Nevada border, where only a minimal amount of

research had previously occurred.

- R Arkush, Brooke S. 1999. Recent Small-Scale Excavations at Weston Canyon Rockshelter, Southeastern Idaho. *Tebiwa* 27(1):1-64. Reinvestigation of a site containing one of the most impressive records of bighorn sheep hunting and processing in the northern Great Basin where initial human use dates back to approximately 7000 B.C.
- Arkush, Brooke S. 1999. Numic Pronghorn Exploitation: A Reassessment of Stewardian-Derived Models of Big-Game Hunting in the Great Basin. In: Julian Steward and the Great Basin: The Making of an Anthropologist, Richard O. Clemmer, L. Daniel Myers, and Mary E. Rudden, eds., pp. 33-52. Salt Lake City: University of Utah Press.

 A critical evaluation of ethnographic and historical information concerning communal pronghorn hunting in light of recent archaeological data, which suggests that group drives were common in many parts of the Intermountain West prior to Euroamerican settlement and the disruption of Native lifeways and Great Basin ecosystems.
- Arkush, Brooke S., and Bonnie L. Pitblado, 2000. Paleoarchaic Surface Assemblages in the Great Salt Lake Desert, Northwestern Utah. *Journal of California and Great Basin Anthropology* 22(1):12-42.

 An early report concerning the technological organization and source locations of chipped stone tools from a number of Paleoarchaic-aged (ca. 11,000 6500 B.C.) sites in the central Great Salt Lake Desert. This area contains an unusually large number of terminal Pleistocene/early Holocene archaeological sites, many of which occur along the receding shorelines of Lake Bonneville.
- Arkush, Brooke S. 2002. Archaeology of the Rock Springs Site: A Multi-Component Bison Kill and Processing Camp in Curlew Valley, Southeastern Idaho. *Boise State University Monographs in Archaeology No. 1.*An account of one of the western-most bison drives in North America, this monograph illustrates the importance of communal bison hunting among Native peoples in southern Idaho between A.D. 1000 and 1800.

4. Career Interruptions and Special Circumstances

None.

5. Contributions to Training Over the Last Six Years

M.A.

Brandon Sybrowsky. *The Archaeological Record of Early Twentieth Century Communal Horse Trapping in the Mountains of Central Idaho*. (Committee member, successful defense, July 25, 2008, Central Washington University, Ellensburg, Washington)

B.I.S. (Bachelor of Integrated Studies)

Sahra Jones. B.I.S. Capstone Project title: *Innovative Methods in Archaeological Documentation: Geological and Forensic Analysis.* (Capstone committee member, successful defense, April 20, 2011)

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| Identification | | | | | | | | |
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| Name | | | | | | | | |
| Family name | | | Give | n name | | Initials | Title | |
| Billinger | | | Mic | chael | | S | Dr. | |
| Citizenship - Appli | cants a | nd co-applicants must in | dicate | e their citizenship status by checkin | g and answer | ng the applica | able questions. | |
| Citizenship | dian | Permanent resident si (yyyy/mm/dd) | nce | Other (country) | | , | ou applied for nent residency? | |
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| Statistical and Ac | lmini | strative Information | n | | | | | |
| Birth year Gender Permanent postal code in Canada (i.e. K2P1G4) Correspondence language Previous contact with SSHRC? (i.e. applicant, assessor, etc.) | | | | | | | | |
| 1975 OF © M K1R5S2 | | | | ● English | | | ● No | |
| Full name used during | ull name used during previous contact, if different from above | | | | | | | |

| Contact Information The following information will help us to contact you more rapidly. Secondary information will not be released by SSHRC without your express consent. | | | | | | | | | | | | | |
|--|---|---------------|-----------|------------------------------------|----------------------|---------|-----------|--|--|--|--|--|--|
| Primary | Primary telephone number Secondary telephone number | | | | | | | | | | | | |
| Country code | Area code | Number | Extension | Country code | Area code | Number | Extension | | | | | | |
| 1 | 613 | 3664166 | | 1 | 780 | 7091244 | | | | | | | |
| Primary | fax num | ber | | Second | Secondary fax number | | | | | | | | |
| Country code | Area code | Number | Extension | Country code | Area code | Number | Extension | | | | | | |
| Primary E-mail michael.billinger@gmail.com | | | | | | | | | | | | | |
| Second | lary E-ma | msb3@ualberta | ı.net | Secondary E-mail msb3@ualberta.net | | | | | | | | | |

Do not photocopy this page.

Family name, Given name
Billinger, Michael

| Current Address Use only if you are not affiliated with a department at a Canadian university. (If you are affiliated with a department at a Canadian university, the department's mailing address will be used.) If you wish to use another address, specify it under the Correspondence Address. | | Correspondence Address Complete this section if you wish your correspondence to be sent to an address other than your current address. | | | |
|--|--------------------|--|-------------------------|------------------|-----------------|
| Address 205-341 Flora Street | | | Address | | |
| City/Municipality Ottawa | Prov. / State | Postal/Zip code K1R5S2 | City/Municipality | Prov. / State | Postal/Zip code |
| Country CANADA | | | Country | | |
| Temporary Address If providing a temporary address, phorensure that you enter the effective date. | ne number and tes. | l/or E-mail, | Permanent Address in CA | NADA | |
| Address | | | Address | | |
| City/Municipality | Prov./ State | | City/Municipality | Prov./ State | Postal/Zip code |
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| Temporary E-mail | | | | | |

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Family name, Given name
Billinger, Michael

The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of Research

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

| Rank | Code | Area |
|------|------|--------------------|
| 1 | 240 | Indigenous peoples |
| 2 | | |
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Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

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Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

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| Rank | Code | Region | | | |
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| 1 | 1000 | North America | | | |
| 2 | 2000 | South America | | | |
| 3 | | | | | |

Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

| Rank | Code | Countries | Prov./ State |
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| 1 | | | |
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Conseil de recherches en sciences humaines du Canada

Curriculum Vitae

Family name, Given name

| Curriculum Vitae Billinger, Michael | | | | | |
|-------------------------------------|--|---|---|--|--|
| Language Proficiency | | | | | |
| Read English French | Write Speak Comprehend aurally X X —————————————————————————————— | Other languages Spanish | | | |
| | 1CE ademic and non-academic, you have held beginning w based on the start year. | ith the current position and all previous p | positions in reverse | | |
| Current position | | | Start date (yyyy/mm) | | |
| Independent R | esearcher | | 2006/7 | | |
| Org. code | Full organization name | | | | |
| 1480111 | University of Alberta | | | | |
| Department/Division | name | | | | |
| Institute of Pra | irie Archeology | | | | |
| Position type (| Tenured Non-tenure Emplo Tenure-track Non-academic | yment status Full-time Non-salaried | Part-time Leave of absence | | |
| Position | · | | Start date (yyyy/mm) End date (yyyy/mm) | | |
| Federal govern | ment employee | | 2011/5 2011/10 | | |
| Org. code | Full organization name | | | | |
| 1 | Office of the Privacy Commissioner of | Canada | | | |
| Department/Division | name | | | | |
| Investigations | Branch | | | | |
| Position | | | Start date (yyyy/mm) End date (yyyy/mm) | | |
| Co-ordinator | | | 2005/8 2011/12 | | |
| Org. code | Full organization name | | | | |
| 1 | Edmonton Police Service | | | | |
| Department/division | name | | | | |
| Freedom of Inf | ormation and Protection of Privacy Unit | | | | |
| Position | | | Start date (yyyy/mm) End date (yyyy/mm) | | |
| Human Osteol | ogist | | 2002/8 2002/8 | | |
| Org. code | Full organization name | | | | |
| 1 | Royal Canadian Mounted Police | | | | |
| Department/Division | name | | | | |
| "E" Division M | Iajor Crimes Section | | | | |

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| Billinger, Michael | |

| Work Experience (cont'd) | | | | | |
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| Position | | | End date (yyyy/mm) | | |
| Teaching Assis | Teaching Assistant | | 2005/8 | | |
| Org. code | Full organization name | | | | |
| 1480111 | University of Alberta | | | | |
| Department/Division | name | | | | |
| Anthropology | | | | | |
| Position | | Start date (yyyy/mm) | End date (yyyy/mm) | | |
| Consultant | | 2000/8 | 2005/8 | | |
| Org. code | Full organization name | | | | |
| 1 | Alberta Community Development | | | | |
| Department/Division | name | | | | |
| History and Ar | chaeology Section | | | | |
| Position | | Start date (yyyy/mm) | End date (yyyy/mm) | | |
| Lecturer | | | 2000/8 | | |
| Org. code | Full organization name | | | | |
| 1480111 University of Alberta | | | | | |
| Department/Division name | | | | | |
| Anthropology | | | | | |
| Position | Position Start date (yyyy/mm) End date (yyyy/mm) | | | | |
| Teaching Assis | stant | 1999/8 | 2000/8 | | |
| Org. code | Full organization name | | | | |
| 1350211 | Carleton University | | | | |
| Department/Division | name | | | | |
| Sociology and | Anthropology | | | | |
| Position | | Start date (yyyy/mm) | End date (yyyy/mm) | | |
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| Org. code | Org. code Full organization name | | | | |
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| Family nar | me, Given name |
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| Billinge | er, Michael |

| Academic B | ackground | | | |
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| | s, beginning with the highest degree first and all others in reverse chronologic | cal order, bas | sed on the start of | date. |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | (yyyy/mm) |
| Doctorate | | 2001/09 | | 2006/07 |
| Disc. code | Discipline | | Did SSHRC su you to get this | |
| 60200 | Anthropology | | Yes | ● No |
| Org. code | Organization | | | |
| 1480111 | University of Alberta | | | |
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| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) |
| Master's | | 1999/09 | | 2000/08 |
| Disc. code | Discipline | | Did SSHRC su you to get this | |
| 60200 | Anthropology | | Yes | ● No |
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| 1350211 | Carleton University | | | |
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| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) |
| BA Hon. | | 1994/09 | (уууу/////// | 1999/04 |
| Disc. code | Discipline | | Did SSHRC su you to get this | |
| 60299 | Anthropology and Law (Combined Honours) | | Yes | No |
| Org. code | Organization | | | |
| 1350211 | Carleton University | | | |
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Family name, Given name
Billinger, Michael

Credentials

List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

| Category | Name | Source or Country | Duration (Months) | Value / Year awarded |
|-------------------------|--|-------------------|----------------------|-------------------------|
| Graduate Scholarship | Am Museum of Nat History Collection Study Grant | UNITED STATES | | \$1,500 2002 |
| Fellowship | Government of Alberta Graduate Fellowship | CANADA | 12 | \$7,000 2002 |
| Graduate Scholarship | UAlberta Graduate Studies Research Scholarship | CANADA | | \$1,500 2002 |
| Graduate Scholarship | UAlberta Graduate Assistantship Package | CANADA | 48 | \$70,000 2001 |
| Graduate Scholarship | UAlberta Graduate Intern Tuition Supplement | CANADA | 48 | \$14,000 2001 |
| Graduate Scholarship | Carleton U Graduate Admissions Scholarship | CANADA | 12 | \$3,500 1999 |

Research Expertise

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

Ethnicity; Human Variation; Cranial Morphology; Forensic Anthropology

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

| Rank | Code | Discipline | If Other, specify |
|------|-------|----------------------------------|-----------------------------|
| 1 | 60200 | Anthropology | |
| 2 | 62299 | Other Law | Information and Privacy Law |
| 3 | 55024 | Ethics of Science and Technology | |
| 4 | 60600 | Criminology | |
| 5 | | | |

Web CV

- (R) BILLINGER MS. 2009. Utilizing ground penetrating radar for the location of a potential human burial under concrete: a case study. *Canadian Society of Forensic Science Journal* 42(3):200–209.
- (R) BILLINGER MS. 2008. A technoethical approach to the race problem in anthropology. Pp. 44–60 (Chapter IV) in R. Luppicini & R. Adell (eds.), *Handbook of Research on Technoethics*. Hershey, PA: IGI Global.
- (R) BILLINGER MS. 2007. Racial classification in the evolutionary sciences: a comparative analysis. *History and Philosophy of the Life Sciences* 29(4):429–467
- (R) BILLINGER MS. 2007. Another look at ethnicity as a biological concept: moving anthropology beyond the race concept. *Critique of Anthropology* 27(1):5–35.

BILLINGER MS. 2007. Gene expression and ethnic differences. Science 315(5813):766.

BILLINGER MS. 2006. Rethinking race. Anthropology News 47(5):3.

BILLINGER MS. 2006. Beyond The Racial Paradigm: New Perspectives on Human Biological Variation. PhD Dissertation. Edmonton: Department of Anthropology, University of Alberta.

BILLINGER MS. 2000. *Geography, Genetics, and Generalizations: The Abandonment of 'Race' in the Anthropological Study of Human Biological Variation*. Master's Thesis. Ottawa: Department of Sociology & Anthropology, Carleton University.

BILLINGER MS. 1999. A Critical Forensic Anthropological Analysis of Craniofacial Morphology and the Determination of Race in Human Skeletal Remains. Honours Thesis. Ottawa: Department of Sociology & Anthropology, Carleton University.

BILLINGER M. 1999. Science and social construction: a critical forensic anthropological analysis of craniofacial morphology and the determination of race in human skeletal remains. Abstracts from the 46th Annual Meeting. *Canadian Society of Forensic Science Journal* 32(4):131.

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| Brock | | | | na | | | Dr. | | |
| Citizens | hip - Applicants | and co-applicants must in | dicat | e their citizenship status by checkin | g and answe | ing the application | able questions. | | |
| Citizenship status | Canadian | Permanent resident si (yyyy/mm/dd) | ince | Other (country) | Have you applied for permanent residency? | | | | |
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| Birth year | Gender | Permanent postal code in Canada (i.e. K2P1G4) | | Correspondence language | Previous contact with SSH (i.e. applicant, assessor, e | | | | |
| 1975 | ●F ○M | | | ♠ English | | Yes | No | | |

| Conta | act Inf | ormation | | | | | | | |
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| 44 | 1865 | 285210 | | | | | | | |
| Primary fax number | | | | Secondary fax number | | | | | |
| Country code | Area code | Number | Extension | Country code | Area code | Number | Extension | | |
| Primary | Primary E-mail fiona.brock@rlaha.ox.ac.uk | | | | | | | | |
| Second | Secondary E-mail | | | | | | | | |

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Family name, Given name
Brock, Fiona

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| Temporary Address If providing a temporary address, phone number and/or E-mail, ensure that you enter the effective dates. | | | Permanent Address in CANADA | | | | | |
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Family name, Given name
Brock, Fiona

| Research Expertise (optional | Research | Expertise (| (optional) |
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The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of Research

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

| Rank | Code | Area |
|------|------|------------------------|
| 1 | 360 | Science and technology |
| 2 | | |
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Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

| From | То |
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Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

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| Rank | Code | Region |
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Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

| Rank | Code | Countries | Prov./ State |
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Family name, Given name Brock, Fiona

| Language Pro | Language Proficiency | | | | | | | | |
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| Read English French | Write X | Speak X | Comprehend a | urally | Other lar | nguages | | | |
| Work Experie List the positions, ac chronological order, | cademic and non-ac | | u have held begi | nning with the | e current po | osition and all previous | positions in re | everse | |
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| Postdoctoral fellow or associate 200 | | | | | | | | | |
| Org. code | Full organization n | ame | | | | | ' | | |
| 9121131 | University of | Oxford | | | | | | | |
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| Research Labo | oratory for Arcl | haeolog | y and the His | tory of A | t | | | | |
| Position type (| Tenured | ○ No | n-tenure | Employmen | t status | Full-time | Part-ti | me | |
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| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) | |
| Public sector e | employee | | | | | | 2004/9 | 2004/9 | |
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| 1 | Arts & Huma | anities R | esearch Boar | rd | | | | | |
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| Department/division | name | | | | | | | | |
| School of Eart | h and Ocean S | ciences | | | | | | | |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) | |
| Postdoctoral fe | ellow or associ | ate | | | | | 2002/9 | 2003/9 | |
| Org. code | Full organization n | ame | | | | | - | | |
| 9121107 | University of | Bristol | | | | | | | |
| Department/Division | name | | | | | | | | |
| Dept. of Earth | Sciences | | | | | | | | |

| Family name, Given name | |
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| Brock, Fiona | |

| Work Experience (cont'd) | | | | | | | | |
|--------------------------|--------------------------------------|--------------------|-----------------------|--|--|--|--|--|
| Position | | | End date (yyyy/mm) | | | | | |
| Public sector employee | | | 2001/9 | | | | | |
| Org. code | Full organization name | | | | | | | |
| 1 | Natural Environment Research Council | | | | | | | |
| Department/Division | name | | | | | | | |
| Research Funding | | | | | | | | |
| Position | Start date | End date (yyyy/mm) | | | | | | |
| | | (yyyy/mm) | (уууу/ППП) | | | | | |
| Org. code | Full organization name | | | | | | | |
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| Position | | Start date | End date | | | | | |
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| Family name, Given name |
|-------------------------|
| Brock, Fiona |

| Academic Background | | | | | | | | |
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| | s, beginning with the highest degree first and all others in reverse chronologic | cal order, bas | | date. | | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) | | | | |
| Doctorate | | 1997/10 | D: 1 0011D0 | 2001/03 | | | | |
| Disc. code | Discipline | | Did SSHRC su you to get this | | | | | |
| 80099 | Biogeochemistry | | Yes | No | | | | |
| Org. code | Organization | | | | | | | |
| 9121107 | University of Bristol | | | | | | | |
| Country UNITED | KINGDOM | | | | | | | |
| Degree type | Degree name | Start date | Expected date | Awarded date | | | | |
| D A Цор | | (yyyy/mm) 1002/00 | (yyyy/mm) | (yyyy/mm) 1996/06 | | | | |
| BA Hon. Disc. code | Discipline | 1993/09 | Did SSHRC su | | | | | |
| Disc. code | Бізсірініс | | you to get this | | | | | |
| 80300 | Chemistry | | Yes | ● No | | | | |
| Org. code | Organization | | | | | | | |
| 9121100 | University of Manchester | | | | | | | |
| Country UNITEL | O KINGDOM | | | | | | | |
| Degree type | Degree name | Start date | Expected date | Awarded date | | | | |
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| | | (уууултт) | (уууултті) | (уууу/ППП) | | | | |
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| | | | Yes | No | | | | |
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| Ora ands | Organization | | Yes | ○ No | | | | |
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| Family name, Given name | |
|-------------------------|--|
| Brock, Fiona | |

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List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

| Category | Name | Source or Country | Duration (Months) | Value / Year awarded |
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The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

radiocarbon dating; biogeochemistry

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

| Rank | Code | Discipline | If Other, specify |
|------|-------|------------------------|-------------------|
| 1 | 60420 | Methods and Techniques | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |

1. RESEARCH CONTRIBUTIONS OVER THE LAST SIX YEARS (2006-2011) A. REFEREED CONTRIBUTIONS

- R Staff RA, Bronk Ramsey C, Bryant CL, **Brock F**, Payne RL, Schlolaut G, Marshall MH, Brauer A, Lamb HF, Parasov P, Yokoyama Y, Haraguchi T, Gotanda K, Yonenobu H, Nakagawa T, Suigetsu 2006 Project Members. 2011. New 14C determinations from Lake Suigetsu, Japan: 12,000 to 0 cal BP. *Radiocarbon* 53(3):511-528. (*Carried out some laboratory work, involved in initial method development.*)
- R Bonneau A, **Brock F**, Higham T, Pearce DG, Pollard AM. 2011. An improved pretreatment protocol for radiocarbon dating black pigments in San rock art. *Radiocarbon* 53(3):419-428. (*Trained student who carried out the work, assisted in writing paper*) Higham TFG, Bronk Ramsey C, **Brock F**, Baker D, Ditchfield P. 2011. Radiocarbon dates from the Oxford AMS System: *Archaeometry* datelist 34. *Archaeometry* 53(5):1067-1084 (*Assisted with management of samples*)
- R Ostapkowicz J, Wiedenhoeft A, Bronk Ramsey C, Ribechini E, Wilson S, **Brock F**, Higham T. 2011. 'Treasures...of black wood, brilliantly polished': five examples of Taíno sculpture from the tenth-sixteenth century Caribbean. *Antiquity* 85:942-959. (*Assisted with fieldwork, radiocarbon-dated samples*)
- R Rebollo, N.R., Weiner, S., **Brock, F.**, Meignen, L., Goldberg, P., Belfer-Cohen, A., Bar-Yosef, O. & Boaretto, E. (2011). New radiocarbon dating of the transition from the Middle to the Upper Paleolithic in Kebara Cave, Israel. *Journal of Archaeological Science* v. 38, pp. 2424-2433. (*Radiocarbon-dated samples*)
- R Arnold, L. J., Roberts, R. G., MacPhee, R. D. E., Haile, J. S., **Brock, F.**, Moller, P., Froese, D. G., Tikhonov, A. N., Chivas, A. R., Gilbert, M. T. P. & Willerslev, E. (2011). Paper II Dirt, dates and DNA: OSL and radiocarbon chronologies of perennially frozen sediments in Siberia, and their implications for sedimentary ancient DNA studies. *Boreas*, v. 40, pp. 417–445. (*Radiocarbon-dated samples*)
- **R** F. Brock, D.G. Froese & R.G. Roberts (2010). Low temperature (LT) combustion of sediments does not provide accurate radiocarbon dates for site chronology *Quaternary Geochronology*, v. 5 pp. 625-630. (*Designed and ran experiments*, wrote paper)
- R J. Tyler, Y. Kashiyama, N. Ohkouchi, N. Ogawa, Y. Yokoyama, Y. Chikaraishi, R.A. Staff, M. Ikehara, C. Bronk Ramsey, C. Bryant, **F. Brock**, K. Gotandam T. Haraguchi, H. Yonenobu & T. Nakagawa (2010). Tracking aquatic change using chlorin-specific carbon and nitrogen isotopes: The last glacial-interglacial transition at Lake Suigetsu, Japan. *G*³ v. 11 (9) Q09010, doi:10.1029/2010GC003186. (*Project team member*)
- R P.L. Ascough, M.I. Bird, W. Meredith, R.E. Wood, C.E. Snape, **F. Brock**, T.F.G. Higham, D. Large & D.C. Apperley (2010). Hydropyrolysis: Implications for radiocarbon pretreatment and characterization of Black Carbon *Radiocarbon* v. 52 (2-3) pp. 1336-1350. (*Radiocarbon dated samples*)
- R C. Bronk Ramsey, M.W. Dee, J.M. Rowland, T.F.G. Higham, S.A. Harris, **F. Brock**, A. Quiles, E.M. Wild, E.S. Marcus & A.J. Shortland (2010). Radiocarbon-based chronology for Dynastic Egypt. *Science* v. 328 pp. 1554-1557. (Assisted in sampling, radiocarbon-dated samples)
 - **F. Brock**, T.F.G. Higham, P. Ditchfield, & C. Bronk Ramsey (2010). Current pretreatment methods for AMS radiocarbon dating at the Oxford Radiocarbon Accelerator Unit (ORAU). *Radiocarbon* v. 52 (1) pp. 103-112. (Assisted in sample management)

- R **F. Brock**, T.F.G. Higham & C. Bronk Ramsey (2010). Pre-screening techniques for identification of samples suitable for radiocarbon dating of poorly preserved bones. *Journal of Archaeological Science* v. 37 pp. 855-865. (Managed project, carried out laboratory work, wrote paper)
- R M.W. Dee, **F. Brock**, S.A. Harris, C. Bronk Ramsey, A.J. Shortland, T.F.G. Higham & J.M. Rowland (2010). Investigating the likelihood of a reservoir offset in the radiocarbon record for Ancient Egypt. *Journal of Archaeological Science* v. 37 pp. 687-693. (Assisted in experimental design, sampling, laboratory work)
- R Broglio, A., De Stefani, M., Gurioli, F., Pallecchi, P., Giachi, G., Higham, T. & **Brock, F**. 2009, "The decoration of Fumane Cave in the picture of the Aurignacian art", *Anthropologie*, vol. 113, no. 5, pp. 753-761. (*Radiocarbon dated samples*)
- R G. Zazula, G. MacKay, T.D. Andrews, B. Shapiro, B. Letts, **F. Brock** (2009). A late Pleistocene steppe bison (*Bison priscus*) partial carcass from Tsiigehtchic, Northwest Territories, Canada. *Quaternary Science Reviews* v. 28 pp. 2734-2742 (*Radiocarbon-dated sample*)
- R F. Brock & T.F.G. Higham (2009). AMS Radiocarbon dating of Paleolithic-aged charcoal from Europe and the Mediterranean Rim using ABOx-SC. *Radiocarbon* v. 51(2) pp. 839-846
 - (Co-I for funding, radiocarbon dated samples, analysed results wrote publication.)
- R P. L. Ascough, M. I. Bird, **F. Brock**, T.F.G. Higham, W. Meredith, C. E. Snape & C. H. Vane (2009). Hydropyrolysis as a new tool for radiocarbon pre-treatment and the quantification of black carbon. *Quaternary Geochronology* v. 4(2) pp. 140-147. (*Radiocarbon dated samples.*)
 - C. Bronk Ramsey, T.F.G. Higham, **F. Brock**, D. Baker & P. Ditchfield (2009). Radiocarbon dates from the Oxford AMS System: Archaeometry datelist 33. *Archaeometry* v. 51(2) pp. 323-349.
 - (Assisted with management of samples.)
- R T.F.G. Higham, **F. Brock**, M. Peresani, A. Broglio, R. Wood & K. Douka (2009) Problems with radiocarbon dating the Middle to Upper Palaeolithic transition in Italy. *Quaternary Science Reviews* v. 28 pp. 1257-1267.
 - (Co-I for funding, radiocarbon dated samples, analysed results wrote publication.)
- R T.F.G. Higham, H. Barton, C.S.M. Turney, G. Barker, C. Bronk Ramsey & F. Brock (2009) Radiocarbon dating of charcoal from tropical sequences: Results from the Niah Great Cave, Sarawak and their broader implication. *Journal of Quaternary Science* v. 24(2) pp 189-197.
 - (Radiocarbon-dated samples.)
- R D.D. Stynder, **F. Brock**, J.C. Sealy, S. Wurz, A.G. Morris & T.P. Volman (2009) A mid-Holocene AMS ¹⁴C date for the presumed upper Pleistocene human skeleton from Peers Cave, South Africa. *Journal of Human Evolution* v. 56 pp. 431-434. (*Radiocarbon-dated samples.*)
- R G.D. Zazula, C.R. Harrington, A.M. Telka, & **F. Brock** (2009). Radiocarbon dates reveal that *Lupinus arcticus* plants were grown from modern not Pleistocene seeds. *New Phytologist* v. 182 pp. 788-792 (*Radiocarbon-dated samples.*)
- R L.J. Arnold, R.G. Roberts, R.D.E. MacPhee, E. Willerslev, A.N. Tikhonov & F. Brock (2008). Optical dating of perennially frozen deposits associated with preserved ancient

- plant and animal DNA in north-central Siberia. *Quaternary Geochronology* v. 3 (1-2) pp. 114-136
- (Radiocarbon-dated samples.)
- R M. DeMuro, R.G. Roberts, D.G. Froese, L.J. Arnold, **F. Brock** & C. Bronk Ramsey (2008). Optically stimulated luminescence dating of single and multiple grains of quartz from perennially-frozen loess in western Yukon Territory, Canada: Comparison with radiocarbon chronologies for the late Pleistocene Dawson tephra. *Quaternary Geochronology* v.3 (4) pp. 346-364.
 - (Field-work to collect samples, radiocarbon-dated samples.)
- R E.M. Wild, C. Neugebauer-Maresch, T. Einwögerer, P.Stadler, P. Steier & F. Brock (2008). ¹⁴C-Dating of the Upper Paleolithic Site at Krems-Hundssteig in Lower Austria. *Radiocarbon* v. 50 (1) pp.1-10. (*Radiocarbon-dated samples*.)
- R F. Brock, C.B. Ramsey & T.F.G Higham (2007). Quality assurance of ultrafiltered bone dating. *Radiocarbon* v. 49 (2) pp. 187-192 (Assembled data, wrote paper.)
 - T.F. Higham, C. Bronk Ramsey, **F. Brock**, D. Baker & P. Ditchfield (2007) Radiocarbon dates from the Oxford AMS system: Archaeometry Datelist 32 *Archaeometry* v. 49 Supp/1 pp. S1-S60.
 - (Assisted with sample management)
- R.J.Parkes, B.A. Cragg, N. Banning, **F. Brock**, G. Webster, J.C. Fry, E.R.C. Hornibrook, R.D. Pancost, S. Kelly, N. Knab, B.B. Jorgensen, J. Rinna & A.J. Weightman (2007) Biogeochemistry and biodiversity of methane cycling in subsurface marine sediments (Skagerrak, Denmark). *Environmental Microbiology* v 9 pp. 1146-1161. (Fieldwork to collect samples, laboratory analysis of samples)
- R F. Brock, R.J. Parkes & D.E.G. Briggs (2006) Experimental pyrite formation associated with decay of plant material. *Palaios*, v. 21 pp. 499-506. (*PhD Thesis research*)

OTHER REFEREED CONTRIBUTIONS

- R Ringbom Å, Heinemeier J, Lindroos A, **Brock F**. 2011. Mortar dating and Roman pozzolana, results and interpretations. In: Ringbom Å, Hohlfelder RL, editors. Building Roma Aeterna, Current Research on Roman Mortar and Concrete, Proceedings of the conference, March 27-29, 2008. *Commentationes Humanarum Litterarum* 128:184-205. (*Undertook laboratory work*)
- R Hodgins G, Lindroos A, Ringbom Å, Heinemeier J, **Brock F**. 2011. ¹⁴C dating of Roman mortars: preliminary tests using titration with diluted hydrochloric acid. In: Ringbom Å, Hohlfelder RL, editors. Building Roma Aeterna, Current Research on Roman Mortar and Concrete, Proceedings of the conference, March 27-29, 2008. *Commentationes Humanarum Litterarum* 128:206-10. (*Undertook laboratory work*)
- R Lindroos A, Heinemeier J, Ringbom Å, **Brock F**, Sonck-Koota P, Pehkonen M, Suksi J. 2011. Problems in radiocarbon dating of Roman pozzolana mortars. In: Ringbom Å, Hohlfelder RL, editors. Building Roma Aeterna, Current Research on Roman Mortar and Concrete, Proceedings of the conference, March 27-29, 2008. *Commentationes Humanarum Litterarum* 128:211-27. (*Undertook laboratory work*)

NON-REFEREED CONTRIBUTIONS

- Pollard, A.M. & F. Brock (2011). Provenancing Parchment, Leather and Paper using Stable Isotopes. *In:* The Technological Study of Books and Manuscripts as Artefacts: Research questions and analytical solutions. S. Neate, D. Howell, R. Ovenden & A.M. Pollard (Eds). BAR International Series, Oxford, UK. (*Designed and undertook laboratory work, co-wrote paper*).
- Ostapkowicz J, Bronk Ramsey C, Wiedenhoeft AC, **Brock F**, Higham T, Wilson SM. 2011. 'This Relic of Antiquity': Fifth to fifteenth century wood carvings from the southern Lesser Antilles. In: Communities in Contact: Essays in archaeology, ethnohistory & ethnography of Amerindian circum-Caribbean. Eds CL Hofman & A van Duijvenbode. Sidestone Press, Leiden. (*Carried out fieldwork and laboratory work*)
- F. Brock, T. Higham & C.B, Ramsey (2007). Radiocarbon dating bone samples recovered from gravel sites. *English Heritage Research Department Report Series no.* 30/2007. (Managed project, carried out laboratory work, wrote report)
- A. Ringbom, J. Hale, J. Heinemeier, A. Lindroos & F. Brock (2006), Mortar Dating in Medieval and Classical Archaeology. CHS Newsletter no. 73. (Radiocarbon dated samples)

FORTHCOMING CONTRIBUTIONS

- F. Brock, S. Lee, R.A. Housley & C. Bronk Ramsey. 2011. Variation in the radiocarbon age of different fractions of peat: a case study from Ahrenshöft, northern Germany. Quaternary Geochronology (in press). (Wrote paper, radiocarbon-dated samples, planned some aspects of work).
- R.A. Housley, C.S. Lane, V. Cullen, M-J. Weber, F. Riede, C.S. Gamble, and **F. Brock** Icelandic volcanic ash from the Late-glacial open-air archaeological site of Ahrenshöft LA58 D, north Germany. *Journal of Archaeological Science (submitted)*. (Carried out radiocarbon dating).
- F. Brock, J. Ostapkowicz, C. Bronk Ramsey, A. Wiedenhoeft & C. Cartwright Paired dating of pith and outer edge (terminus) samples from Pre-Hispanic Caribbean wooden sculptures. *Radiocarbon (submitted)*. (*Undertook laboratory work, wrote paper*).
- F. Brock, R. Wood, T. Higham, P. Ditchfield, A. Bayliss & C. Bronk Ramsey The reliability of nitrogen content (%N) and carbon:nitrogen atomic ratios (C:N) as indicators of collagen preservation suitable for radiocarbon dating. *Radiocarbon (revised and submitted)*. (Designed analysis, led study, wrote paper).
- 2. OTHER RESEARCH CONTRIBUTIONS: None.
- 3. MOST SIGNIFICANT CAREER RESEARCH CONTRIBUTIONS: N/A
- **4.** CAREER INTERRUPTIONS: June 2008-April 2009: Maternity leave.
- 5. CONTRIBUTIONS TO TRAINING
 - Introduction to Radiocarbon Dating: 3 day practical for new graduate students (yearly, 2005-2009)
 - Short Course in Radiocarbon Dating, run by University of Oxford Dept of Continuing Education (March 2009, 2011). Contribution to teaching.
 - Lecture on Radiocarbon Dating given to MSc Forensic Archaeology course at University of Cranfield, UK. (March 2010, 2011)
 - Individual laboratory training in radiocarbon preparation techniques given to MSc and DPhil students.

Social Sciences and Humanities Research Council of Canada

Gender

Statistical and Administrative Information

Full name used during previous contact, if different from above

Birth year

1966

Conseil de recherches en sciences humaines du Canada

Correspondence language

English French

Permanent postal code

in Canada (i.e. K2P1G4)

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| Identification | | | | | | |
| Only the information in the Name section will be made available to selection committee members and external assessors. Citizenship and Statistical and Administrative Information will be used by SSHRC for administrative and statistical purposes only. Filling out the statistical and Administrative Information section is optional. | | | | | | |
| Name | | | | | | |
| Family name | Give | n name | | Initials | Title | |
| Eiselt | Sunday | | | В | Dr. | |
| Citizenship - Applicants and co-applicants must indicate their citizenship status by checking and answering the applicable questions. | | | | | | |
| Citizenship Status Canadian Permanent resident since (yyyy/mm/dd) Other (country) Have you applied permanent resident since permanent resident since (yyyy/mm/dd) | | | | | | |
| | _ | UNITED STATES | | _ Ye | s ONo | |

Previous contact with SSHRC?

No (

(i.e. applicant, assessor, etc.)

() Yes

| Conta | Contact Information | | | | | | |
|---|---------------------|----------------------|-----------|-----------------|--------------|-------------|-----------|
| The following information will help us to contact you more rapidly. Secondary information will not be released by SSHRC without your express consent. | | | | | | | |
| Primary | telephor | ne number | | Second | ary telep | hone number | |
| Country code | Area code | Number | Extension | Country code | Area code | Number | Extension |
| 1 | 480 | 755-7825 | | 1 | 214 | 768-2915 | |
| Primary | fax num | ber | | Second | ary fax n | umber | |
| Country code | Area code | Number | Extension | Country code | Area code | Number | Extension |
| Primary | E-mail | seiselt@smu.edu | | | | | |
| Second | ary E-ma | il seiselt@gmail.com | 1 | | | | |

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Family name, Given name
Eiselt, Sunday

| Current Address Use only if you are not affiliated with a department at a Canadian university. (If you are affiliated with a department at a Canadian university, the department's mailing address will be used.) If you wish to use another address, specify it under the Correspondence Address. | | | Correspondence Ad Complete this section if you wish to an address other than your cu | your corresponde | nce to be sent |
|--|------------------|--|--|------------------|-----------------|
| Address Southern Methodist Univers | sity | | Address | | |
| Dept. Anthropology | | | | | |
| 3225 Daniel Ave., Heroy Ha | all | | | | |
| City/Municipality Dallas | Prov. / State | Postal/Zip code 75205 | City/Municipality | Prov. / State | Postal/Zip code |
| Country UNITED STATES | | | Country | 1 | |
| Temporary Address If providing a temporary address, phone number and/or E-mail, ensure that you enter the effective dates. | | | Permanent Address | in CANADA | |
| Address | | | Address | | |
| City/Municipality Prov./ State | | City/Municipality | Prov State | | |
| Country | | | Country | 1 | |
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Family name, Given name
Eiselt, Sunday

| Research Expertise (optional) | Research | Expertise | (optional) |
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The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of Research

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

| Rank | Code | Area |
|------|------|-------------------------------------|
| 1 | 240 | Indigenous peoples |
| 2 | 300 | Multiculturalism and ethnic studies |
| 3 | 100 | Arts and culture |

Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

| From | То |
|---|---|
| Year ——————————————————————————————————— | Year ——————————————————————————————————— |

Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

| - 11 | 3, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, | | | | | |
|------|--|---------------|--|--|--|--|
| Rank | Code | Region | | | | |
| 1 | 1000 | North America | | | | |
| 2 | | | | | | |
| 3 | | | | | | |

Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

| Rank | Code | Countries | Prov./ State |
|------|------|---------------|-----------------|
| 1 | 1200 | UNITED STATES | NM |
| 2 | 1200 | UNITED STATES | NE |
| 3 | 1200 | UNITED STATES | UT |
| 4 | 1200 | UNITED STATES | AZ |
| 5 | 1200 | UNITED STATES | NV |

Conseil de recherches en sciences humaines du Canada

Curriculum Vitae

Family name, Given name

| Curriculum Vitae Eiselt, Sunday | | | | | |
|--|--|------------------------------|----------------------------|----------------------|--|
| Language Pro | ficiency | · | | | |
| Read English French | Write Speak Comprehend aural | lly Other language | :S | | |
| | nce ademic and non-academic, you have held beginnin based on the start year. | ng with the current position | and all previous positions | in reverse | |
| Current position | | | | Start date (yyyy/mm) | |
| Assistant Profe | essor | | | 2008/9 | |
| Org. code | Full organization name | | | | |
| 9969103 | Southern Methodist University | | | | |
| Department/Division | name | | | | |
| Anthropology | | | | | |
| Position type | Tenured Non-tenure En | 0 | 0 | art-time | |
| Position | | | Start da | ate End date | |
| Visiting Profes | ssor | | (yyyy/mi 2006, | | |
| Org. code | Full organization name | | | | |
| 9969103 | Southern Methodist University | | | | |
| Department/Division | name | | | | |
| Anthropology | | | | | |
| Position | | | Start da | | |
| Instructor | | | 2004 | | |
| Org. code | Full organization name | | • | | |
| 9938101 | University of Michigan, Ann Arbor | | | | |
| Department/division name | | | | | |
| Anthropology | | | | | |
| Position Start date (yyyy/mm) End d (yyyy/m) | | | | | |
| Project Director 2003/9 200 | | | | | |
| Org. code | Full organization name | | | | |
| 1 Gila River Indian Community | | | | | |
| Department/Division name | | | | | |
| Cultural Resou | rce Management Program | | | | |

| Family name, Given name | |
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| Eiselt, Sunday | |

| Work Experi | ence (cont'd) | | |
|---------------------|-----------------------------------|-------------------------|--------------------|
| Position | Start date (yyyy/mm) | End date (yyyy/mm) | |
| Student | | | 2006/9 |
| Org. code | Full organization name | 1998/9 | |
| 9938101 | University of Michigan, Ann Arbor | | |
| Department/Division | name | | |
| Anthropology | | | |
| Position | | Start date | End date |
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| Org. code | Full organization name | | |
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| Department/Division | n name | | |
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| Family name, Given name |
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| Eiselt, Sunday |

| Academic B | | | | |
|----------------------|---|----------------------|---------------------------------|---------------------------|
| List up to 5 degrees | , beginning with the highest degree first and all others in reverse chronologic | cal order, bas | sed on the start | date. |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | (yyyy/mm) |
| Doctorate | Ph.D | 1998/08 | | 2006/02 |
| Disc. code | Discipline | | Did SSHRC su you to get this | |
| 60432 | Trade and Trade Routes, Culture Contact, Cultural Relations | | Yes | ● No |
| Org. code | Organization | | | |
| 9938101 | University of Michigan, Ann Arbor | | | |
| Country UNITED | STATES | | | |
| Degree type | Degree name | Start date | Expected date | Awarded date |
| Master's | Master of Arts | (yyyy/mm) 1995/08 | (yyyy/mm) | (yyyy/mm) 1998/05 |
| Disc. code | Discipline | 1993/08 | Did SSHRC su | |
| Disc. code | Discipline | | you to get this | |
| 60200 | Anthropology | | Yes | ● No |
| Org. code | Organization | | | |
| 9978101 | University of Nevada, Reno | | | |
| Country UNITED | STATES | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) |
| BA Gen. | Bachelor of Arts | 1990/08 | | 1995/05 |
| Disc. code | Discipline | | Did SSHRC su you to get this | |
| 60200 | Anthropology | | Yes | No |
| Org. code | Organization | | | |
| 9983109 | California State University, Chico | | | |
| Country UNITED | STATES | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) |
| Disc. code | Discipline | | Did SSHRC su you to get this | |
| | | | Yes | No |
| Org. code | Organization | | | |
| Country | | | | |
| Degree type | Degree name | Start date | Expected date | Awarded date |
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| | | | you to get this | No No |
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| Family name, Given name | |
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| Eiselt, Sunday | |

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List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

| aujumamen e yem approach and men e e e e e e e e e e e e e e e e e e | | | | | |
|--|----------------------------|-------------------|----------------------|-------------------------|--|
| Category | Name | Source or Country | Duration (Months) | Value / Year awarded | |
| Academic Prize | University of Michigan, | UNITED STATES | | | |
| | Department of Anthropology | | | 2004 | |
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Research Expertise

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

Athapaskans; Apache Archaeology; Southwest Archaeology; Ceramic Analysis; Culture Contact; Trade and Diasporas; Interethnic Exchange

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

| Rank | Code | Discipline | If Other, specify |
|------|-------|--|-------------------|
| 1 | 60432 | Trade and Trade Routes, Culture Contact, Cultural Relations | |
| 2 | 60414 | Hunters and Gatherers | |
| 3 | 60418 | Material Culture (incl. burials) | |
| 4 | 60420 | Methods and Techniques | |
| 5 | 60430 | Technology, Tool Industries | |

| Family name, Given name | |
|-------------------------|--|
| Eiselt, Sunday | |

| Funded | Research | <u> </u> | | | | |
|---|---|-------------------------------|-------------------------|--------------------|--|--|
| List up to 8 grants or contracts you have received from SSHRC or other sources. List them in reverse chronological order, based on the year awarded. If you are not the applicant (principal investigator), specify that persons' name. | | | | | | |
| Org. code | Full name of funding organization Southern Methodist University, U | Year awarded (yyyy) | Γotal amount (CAN\$) | | | |
| 1 | Southern Methodist Oniversity, O | inversity Research Council | 2009 | \$5,700 | | |
| Role | Applicant | | Completion status | Complete | | |
| Project title Childhood Depictions: Creating an Historical Archaeology of Children and Childhoo Ranchos de Taos Plaza, New Mexico | | | | | | |
| Applicant's f | amily name | Applicant's given name | | Initials | | |
| Eiselt | | Sunday | | В | | |
| Org. code | Full name of funding organization | | 1 | Fotal amount | | |
| 1 | American Museum of Natural His | tory | (уууу) | (CAN\$) | | |
| 1 | | | 2008 | \$1,500 | | |
| Role | Applicant | | Completion status | Complete | | |
| Project title | A Metric and Visual Examination Ute, Navajo, and Pueblo Makers | of Metal-tipped Arrows Attrib | outed to Apache, | Comanche, | | |
| Applicant's f | amily name | Applicant's given name | | Initials | | |
| Eiselt Sudnay | | Sudnay | | В | | |
| Org. code | Full name of funding organization | | 1 | Total amount | | |
| | Missouri Research Reactor, Archa | neometry Laboratory | (уууу) | (CAN\$) | | |
| 1 | | | 2007 | \$4,320 | | |
| Role | Applicant | | Completion status | Complete | | |
| Project title | Hohokam Procurement and Use of Pottery: An INAA Study from the | | | d Redware | | |
| Applicant's f | amily name | Applicant's given name | ame | | | |
| Eiselt | | Sunday | | | | |
| Org. code | Full name of funding organization | | Year awarded (yyyy) | Total amount | | |
| 1 | Missouri Research Reactor, Archaeometry Laboratory | | | (CAN\$) \$3,700 | | |
| Role Applicant | | | 2004 Completion status | | | |
| Project title | 11 | etion and Raw Material Procus | | | | |
| Project title Historic Micaceous Pottery Production and Raw Material Procurement in a Southwestern Horse Nomad Society: The Jicarilla Apache of Northern New Mexico | | | | | | |
| Applicant's f | amily name | Applicant's given name | Initials | | | |
| Eiselt | | Sunday | | В | | |

Family name, Given name
Eiselt, Sunday

| Funded | Research (cont'd) | <u>'</u> | | | | |
|---|---|-------------------------------|-------------------------|-------------------------|--|--|
| | | | | | | |
| Org. code | Full name of funding organization Picuris Pueblo, Federally Recogni | Year awarded (yyyy) | Total amount (CAN\$) | | | |
| 1 | Troums ruceros, redefanty recogni | 11100 | 2004 | \$35,000 | | |
| Role | Applicant | | Completion status | X Complete | | |
| Project title Sangre de Cristo Micaceous Clays and Picuris Pueblo Ceramics: Geochemical Evi a Picuris Pueblo Clay Source district and Use of the Molonanna Source Area | | | | | | |
| Applicant's f | amily name | Applicant's given name | | Initials | | |
| Eiselt | | Sunday | | В | | |
| Org. code | Full name of funding organization | | Year awarded (yyyy) | Total amount (CAN\$) | | |
| 1 | Sigma Xi Research Society | | 2001 | \$1,500 | | |
| Role | Applicant | | Completion status | | | |
| Project title | Tree-ring dating of Juniper in nort | hern New Mevico Hispanic Si | · | Complete | | |
| . rojost and | Tree-ring dating of Jumper in nort | mem ivew iviexico mispaine si | ites | | | |
| Applicant's family name Applicant's given name | | | | Initials | | |
| Eiselt Sunday | | | | В | | |
| Org. code | Full name of funding organization | | Year awarded (yyyy) | Total amount (CAN\$) | | |
| 1 | Michigan Memorial-Phoenix Proj | ect | 1999 | \$10,000 | | |
| Role | Applicant | | Completion status | | | |
| Project title | Neutron Activation Analysis of M | icaceous Clay and Ceramics fr | | | | |
| | Grande, New Mexico | • | | | | |
| Applicant's f | amily name | Applicant's given name | | Initials | | |
| Eiselt | | Sunday | В | | | |
| Org. code | Full name of funding organization | | Year awarded (yyyy) | Total amount | | |
| 1 | The Woodrow Wilson Foundation | | | (CAN\$) | | |
| Role Applicant Completions | | | | \$5,000 | | |
| | Applicant | | Completion status | | | |
| Project title | Project title The Jicarilla Apaches and the Evolution of Ethnic Enclaves in Northern New Mexico | | | | | |
| Applicant's f | amily name | Applicant's given name | | Initials | | |
| Eiselt | | Sunday | | В | | |

1. Research Contributions over the Last Six Years

A. Refereed Contributions

- R <u>Eiselt, B. S.</u>, Rachel Popelka-Filcoff, J. Andrew Darling, Michael Glascock. (2011) Hematite Sources and Archaeological Ochres from Hohokam and O'odham Sites in Central Arizona: An Experiment in Type Identification and Characterization. *Journal of Archaeological Science* Vol.
 - 38:3019-3028
- **R** Eiselt, B. S. (2009). Americanist Archaeologies: 2008 in Review. *American Anthropologist* 111(2).
- R <u>Eiselt, B. S.</u> (2009). The Jicarilla Apaches and the Archaeology of the Taos Region. In, *Between the Mountains Beyond the Mountains: Papers in Honor of Paul R. Williams*, edited by E. Brown, K. Armstrong, D. M. Brugge, C. Condie. Papers of the Archaeological Society of New Mexico Vol. 35, Albuquerque.
- R Darling, J. A., <u>B. Sunday Eiselt</u> (2009). Trails Research in the Gila Bend Area. In *Trails, Rock Features and Homesteading in the Gila Bend Area*, edited by John L. Czarzasty, Katherine Peterson, Glen E. Rice, J. Andrew Darling. Anthropological Research Papers No. 4. University of Arizona Press, Tucson Gila River Indian Community, Sacaton, Arizona
- **R** Eiselt, B. S., R. I. Ford (2007). Sangre de Cristo Micaceous Clays: Geochemical Indices for Source and Raw Material Distribution, Past and Present. *Kiva, The Journal of Southwest Archaeology and History* Vol. 73(2).
- R <u>Eiselt, B. S.</u> (2006). *The Emergence of Jicarilla Apache Enclave Economy During the 19th-Century in Northern New Mexico*. Ph.D. Dissertation, University of Michigan, Department of Anthropology.
- **R** Hegmon, M., <u>B. S. Eiselt</u> (2005) *Engaged Anthropology: Research Essays on North American Archaeology, Ethnobotany, and Museology*. Anthropological Papers No. 94. University of Michigan Museum of Anthropology, Ann Arbor.

B. Other Refereed Contributions (Refereed Conference Presentations)

- R <u>Eiselt B. S.</u> and J. Andrew Darling. (2010) Vecino Archaeology AD 1780-Present. 75th Annual Meeting of the Society for American Archaeology St. Louis, MO (**Organized Symposium**)
- R K. Cooper, <u>B. Sunday Eiselt</u>, and J. Welch (2008) Ways of Becoming: Dynamic Processes in the Creation of Athapaskan Identities and Landscapes. 73rd Annual Meeting of the Society for American Archaeology, Vancouver, B.C. (**Organized Symposium**)
- R Hegmon, M. and <u>B. Sunday Eiselt</u> (2005). Research Papers on Engaged Archaeology and Museology in Honor of Richard I Ford 70th Annual Meeting of the Society for American Archaeology, Salt Lake City, Utah. (**Organized Symposium**)
- R <u>Eiselt B, S.</u> and John W. Ives (2011). Kinship: The Unattended Dimension of Paleoindian Research. **Paper** presented at the 76th Annual Meeting of the Society or American Archaeology, Sacramento, CA (In, Questioning Assumptions: Celebrating the Work and Influence of John D. Speth)
- R J. Andrew Darling and B. Sunday Eiselt (2011) More Uses of the Past: Archaeology in the Service of the Tribe. **Paper** presented the 76th Annual Meeting of the Society or American Archaeology, Sacramento, CA (In, Theory, History, and Multidisciplinarity: Papers in Honor of Don Fowler)
- R Lauren O'Brien and B. Sunday Eiselt (2011) Thermal Efficiency and Durability of Micaceous Clay Cookware from the Northern Rio Grande. **Poster** presented at the 76th Annual Meeting of the Society or American Archaeology, Sacramento, CA.

- R <u>Eiselt, B. S.</u>, Katy Pocklington, Nicola Muchnikov (2010) Vecino Archaeology and the Politics of Play. **Paper** presented at the 75th Annual Meeting of the Society for American Archaeology St. Louis, MO
- R <u>Eiselt, B. S.</u> and Felipe V. Ortega (2010) The Potter's Apprentice: First Principles in Archaeological Engagement. **Paper** presented at Southwest Symposium XI Building Transnational Archaeologies, Hermosillo, Mexico.
- **R** Eiselt, B. S. (2008). The Southwest Athapaskan Equation. Enclave Ideology in the Colonization of New Mexico by the Jicarilla Apaches. **Paper** presented at the 73rd Annual Society for American Archaeology Meeting, Vancouver, British Columbia.
- R <u>Eiselt, B. S.</u> (2007). Enclave Economy and Ceramic Exchange: Historic and Archaeological Evidence from the Northern Rio Grande of New Mexico. **Paper** presented at the 72nd Annual Society for American Archaeology Meeting, Austin, Texas.
- R J. A. Darling, H. Neff; <u>B. Sunday Eiselt</u>, and L. Newman (2007). Recent Advances in Provenance Research Along the Middle Gila River Valley Using Time of Flight Laser Ablation Inductively Coupled Plasma Mass Spectrometry (LA-ICP-MS). **Poster** presented at the 72nd Annual Society for American Archaeology Meeting, Austin Texas.
- **R** Eiselt, B. S. (2006). The Breath of Clay: Enclave Ideology and the Emergence of Pre-Reservation Jicarilla Apache Society **Paper** presented at the 10th Biennial Southwest Symposium, Carlsbad, New Mexico.
- R <u>Eiselt, B. S.</u>, R. I. Ford (2006). Clay Source Selection and its Influence on Trace Element Geochemistry of Residual Micaceous Clay: Examples from Northern Rio Grande Potters. **Paper** presented at the American Nuclear Society, Winter Meeting and Nuclear Technology Exposition.
- R <u>Eiselt, B. S.</u> (2005). Micaceous Clay Source Geochemistry and Evidence for Ceramic Source Utilization by Jicarilla, Pueblo, and Hispanic Potters of Northern New Mexico. **Paper** presented at the 2005 Pecos Conference, White Rock, New Mexico.
- **R** J. A. Darling and <u>B. S. Eiselt</u> (2005). Consumer-Producer Relations and Interethnic Economy of Nineteenth-Century Hispanic Communities of the Lower Chama Valley, New Mexico. **Paper** presented at the 70th Annual Society for American Archaeology meeting, Salt Lake City, Utah.

C. Non-refereed Contributions

Eiselt, B. S. (2009). Critical Review of United States and Ohkay Owingeh Expert
Reports Regarding Precolumbian Water Use in the Santa Cruz and Truchas Watersheds.

New Mexico v. Abbott. Report prepared for the State of New Mexico, Plaintiff. (Expert
Eiselt, B. S. (2007). The Emergence of Jicarilla Apache Enclave Economy During the Nineteenth
Century in Northern New Mexico. Archaeology Southwest, Vol. 21(2), pp. 19. (Trade Journal)
Eiselt B. S., R. I. Ford (2006). Analysis of Micaceous Clay Sources in the Northern Rio Grande.
Transactions of the American Nuclear Society, Vol. 101. (Transactions)
Eiselt, B. S. (2005). Sangre de Cristo Micaceous Clays and Picuris Pueblo Ceramics:
Geochemical Evidence for a Picuris Pueblo Clay Source District. Picuris Pueblo vs. Ogleby
Mining Company, Plaintiff. (Expert Testimony on Behalf of the Pueblo)

D. Forthcoming Contributions

- **R** B. Sunday Eiselt. (Accepted for 2012 publication) *Becoming White Clay: A History and Archaeology of Jicarilla Apache Enclavement. University* of Utah Press.
- R <u>Eiselt, B. S.</u> and J. Andrew Darling. (Accepted for 2012 Publication) Vecino Economics: Gendered Economy and Micaceous Pottery Consumption in Nineteenth-Century Northern New Mexico. *American Antiquity*.
- R Margaret E. Beck, Jill Onken, <u>B. Sunday Eiselt</u>, J. Andrew Darling, and Jeffrey R. Ferguson

(In press) Geomorphological Setting and Native American Acquisition of Buff-firing Ceramic Clays in the Lower and Middle Gila River Valley, Arizona. *Journal of Archaeological Science*.

2. Other Research Contributions

<u>Director</u>. Taos Collaborative Archaeology Program, Southern Methodist University in Taos, June 2009 to present.

<u>Research Collaborator.</u> Gila River Indian Community, Cultural Resources Management Program, Sacaton, AZ. January 2005 to present.

Research Affiliate. Mercyhurst Archaeological Institute, Mercyhurst College, Erie, PA. June 2009 to present.

3. Most Significant Career Research Contributions

- **R** Eiselt, B. S. (2009). Americanist Archaeologies: 2008 in Review. *American Anthropologist* 111(2).
- **R** Eiselt, B. S., R. I. Ford (2007). Sangre de Cristo Micaceous Clays: Geochemical Indices for Source and Raw Material Distribution, Past and Present. *Kiva, The Journal of Southwest Archaeology and History* Vol. 73(2).
- R Eiselt, B. S. (2006). The Emergence of Jicarilla Apache Enclave Economy During the 19th-Century in Northern New Mexico. Ph.D. Dissertation, University of Michigan, Department of Anthropology. Hegmon, M., B. S. Eiselt (2005) Engaged Anthropology: Research Essays on North American Archaeology, Ethnobotany, and Museology. Anthropological Papers No. 94. University of Michigan Museum of Anthropology, Ann Arbor.
- R Haynes, G. and B. S. Eiselt (1999). The Power of Pleistocene Hunter-Gatherers: Forward and Backward Searching for Evidence About Mammoth Extinction. In, *Humans and Other Catastrophes. In, Patterns and Causes of Late Quaternary Extinctions*, edited by Ross MacPhee. Advances in Vertebrate Paleobiology. Plenum Press, New York.
- **R** Eiselt, B. S. (1997). Fish Remains from the Spirit Cave Paleofecal Material: 9,400 Year Old Evidence for Great Basin Utilization of Small Fishes. *Nevada Historical Quarterly* 40(1):117-139.

1 Career Interruptions and Special Circumstances NA

2 Contributions to Training over the Last Six Years

Ph.D Committees

<u>Albert Gonzalez (SMU).</u> *Chair* Social Memory, Rebellion, and the Economy of Simeon Turley's Grist Mill and Distillery, Taos, New Mexico.

<u>Lauren O'Brien (SMU).</u> *Chair* Gender Ideologies and Ceramic Exchange at Picuris Pueblo, New Mexico.

<u>Susan Bruning (SMU).</u> *Member* NAGPRA Legislation and Repatriation Examples from Hopi, Zuni, and Zia Pueblos, New Mexico.

Marie-Blanche-Roudaut (SMU). *Member* Southwest Pueblo Migration and Ethnogenesis in the Kayenta/Tusayan Area and San Pedro Valley

<u>Leslie Reeder (SMU).</u> *Member* Village Development and Mainland Exchange During the Late Archaic Period in the Channel Islands, California.

<u>Kylie Quave (SMU)</u>. *Member* Archaeological and Historical Perspectives on the Inka Estate Community: Investigating the Administration of Maras (Cusco, Peru).

Maeve Skidmore (SMU). Member Middle Horizon Migrations, Pikillacta, Lucre Valley, Peru.

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| Identifi | cation | | | | | | | |
| Statistical a | Only the information in the Name section will be made available to selection committee members and external assessors. Citizenship and Statistical and Administrative Information will be used by SSHRC for administrative and statistical purposes only. Filling out the statistical and Administrative Information section is optional. | | | | | | • | |
| Name | | | | | | | | |
| Family nam | ne | | | Give | n name | | Initials | Title |
| Froese Duane G D | | | | Dr. | | | | |
| Citizensl | hip - App | licants a | and co-applicants must in | dicate | e their citizenship status by checkin | g and answerin | g the applica | ble questions. |
| Citizenship status | Can | adian (| Permanent resident si (yyyy/mm/dd) | nce | Other (country) | | | rou applied for nent residency? |
| | | | | | | | _ Ye | s No |
| | | | | | | | | |
| Statistical and Administrative Information | | | | | | | | |
| Birth year | Gender | | Permanent postal code in Canada (i.e. K2P1G4) | | orrespondence language | 1 | is contact wit plicant, asses | |
| 1970 | OF | ● M | T6G2E3 | | ● English | | Yes (| ● No |
| Full name used during previous contact, if different from above | | | | | | | | |

| The foll | Contact Information The following information will help us to contact you more rapidly. Secondary information will not be released by SSHRC without your express consent. | | | | | | |
|--------------|--|-----------|-----------|--------------|----------------------|--------------|-----------|
| Primary | telepho | ne number | | Second | ary telep | ohone number | |
| Country code | Area code | Number | Extension | Country code | Area code | Number | Extension |
| | 780 | 492-1968 | | | | | |
| Primary | Primary fax number | | | Second | Secondary fax number | | |
| Country code | Area code | Number | Extension | Country code | Area code | Number | Extension |
| | 780 | 492-2030 | | | | | |
| Primary | Primary E-mail duane.froese@ualberta.ca | | | | | | |
| Second | Secondary E-mail | | | | | | |

Do not photocopy this page.

Family name, Given name
Froese, Duane

| Current Address Use only if you are not affiliated with a university. (If you are affiliated with a university, the department's mailing at wish to use another address, specify in Address. | department at a ddress will be u | a Canadian used.) If you | Correspondence Address Complete this section if you wish your correspondence to be sent to an address other than your current address. | | |
|--|----------------------------------|-----------------------------|--|------------------|-----------------|
| Address | | | Address | | |
| City/Municipality | Prov. / State | Postal/Zip code | City/Municipality | Prov. / State | Postal/Zip code |
| Country | | | Country | | |
| Temporary Address If providing a temporary address, phone number and/or E-mail, ensure that you enter the effective dates. | | | Permanent Address in | CANADA | |
| Address | | | Address | | |
| City/Municipality | Prov./ State | | City/Municipality | Prov./ State | Postal/Zip code |
| Country | | | Country | | |
| Start date End date (yyyy/mm/dd) (yyyy/mm/dd) | | | Temporary telephone/fax number Country Area Number code code | Extension | 1 |
| Temporary E-mail | | | | | |

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Family name, Given name
Froese, Duane

| Research Expertise (optional |
|------------------------------|
|------------------------------|

The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of Research

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

| Rank | Code | Area |
|------|------|-----------------------|
| 1 | 214 | Global/Climate Change |
| 2 | | |
| 3 | | |

Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

| From | То |
|--------------|--------------|
| Year BC AD O | Year BC AD O |
| O O | O O |

Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

| - 11 | | |
|------|------|-----------------|
| Rank | Code | Region |
| 1 | 1000 | North America |
| 2 | 1140 | Northern Canada |
| 3 | | |

Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

| Rank | Code | Countries | Prov./ State |
|------|------|---------------|-----------------|
| 1 | 1100 | CANADA | YT |
| 2 | 1100 | CANADA | AB |
| 3 | 1200 | UNITED STATES | AK |
| 4 | 1200 | UNITED STATES | WA |
| 5 | | | |

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| C. | ırricı | ılıım | Vitae |
|-----|--------|-------|-------|
| Lal | TLLIC: | HHHIM | VITAE |

Family name, Given name
Froese, Duane

| Language Proficiency | | | | | | | | | |
|---|---------------------|------------|-------------------|----------------|-------------|-------------------------|-------------------------|-----------------------|--|
| Read English French | Write X | Speak X | Comprehend a | urally | Other lang | guages | | | |
| Work Experient List the positions, acchronological order, | ademic and non-ac | ademic, yo | u have held begii | nning with the | current pos | sition and all previous | positions in re | everse | |
| Current position | | | | | | | | Start date | |
| Associate Prof | Sessor and CRO | C | | | | | | (yyyy/mm) 2003/9 | |
| Org. code | Full organization n | ame | | | | | | | |
| 1480111 | University of | Alberta | | | | | | | |
| Department/Division | name | | | | | | | | |
| Earth and Atm | ospheric Scier | nces | | | | | | | |
| Position type | Tenured | ○ Nor | n-tenure | Employmen | status | Full-time | O Part-tii | ne | |
| | Tenure-track | ○ Nor | n-academic | | | Non-salaried | Leave | of absence | |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) | |
| Postdoctoral fe | | | | | | | 2002/10 | 2003/10 | |
| Org. code | Full organization n | | • | | | | | | |
| 1590611 | Simon Fraser | r Univers | sity | | | | | | |
| Department/Division | | | | | | | | | |
| Earth Sciences | 3 | | | | | | T T | | |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) | |
| Org. code | Full organization n | ame | | | | | | | |
| | | | | | | | | | |
| Department/division | name | | | | | | | | |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) | |
| Org. code | Full organization n | ame | | | | | | | |
| Department/Division | name | | | | | | | | |

| Family name, Given name | |
|-------------------------|--|
| Froese, Duane | |

| Academic Background | | | | | | | |
|----------------------|--|-------------------------|---------------------------------|---------------------------|--|--|--|
| List up to 5 degrees | s, beginning with the highest degree first and all others in reverse chronologic | cal order, bas | ed on the start | date. | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) | | | |
| Doctorate | PhD | 1997/09 | | 2001/12 | | | |
| Disc. code | Discipline | | Did SSHRC su you to get this | | | | |
| 80500 | Earth Sciences | | Yes | ● No | | | |
| Org. code | Organization | | | | | | |
| 1480211 | University of Calgary | | | | | | |
| CANAD | OA . | | | | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date | | | |
| Master's | MSc. | 1995/09 | (уууу/ППП) | (yyyy/mm) 1997/08 | | | |
| Disc. code | Discipline | 1993/09 | Did SSHRC su | | | | |
| D130. 0040 | | | you to get this | degree? | | | |
| 80500 | Earth Sciences | | Yes | ● No | | | |
| Org. code | Organization | | | | | | |
| 1480211 | University of Calgary | | | | | | |
| CANAD | OA . | | | | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) | | | |
| BA Gen. | BSc | 1990/09 | | 1994/04 | | | |
| Disc. code | Discipline | | Did SSHRC su you to get this | | | | |
| 80500 | Earth Sciences | | Yes | ● No | | | |
| Org. code | Organization | | | | | | |
| 1480411 | University of Lethbridge | | | | | | |
| CANAD | OA . | | | | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) | | | |
| Disc. code | Discipline | | Did SSHRC su you to get this | | | | |
| | | | Yes | No | | | |
| Org. code | Organization | | | | | | |
| Country | | | | | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) | | | |
| | | | | | | | |
| Disc. code | Discipline | | Did SSHRC su you to get this | pport enable degree? | | | |
| | | | Yes | No | | | |
| Org. code | Organization | | | | | | |
| Country | | | | | | | |

| Family name, Given name | |
|-------------------------|--|
| Froese, Duane | |

Credentials

List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

| Category | Name | Source or Country | Duration (Months) | Value / Year awarded |
|----------------|---|------------------------------|----------------------|-------------------------|
| Academic Prize | CRC in Northern Environmental Change | Federal Government CANADA | 60 | \$500,000 2010 |
| Academic Prize | Faculty of Science Research Award | University CANADA | | \$2,000 2010 |
| Fellowship | Alberta Ingenuity New Faculty Award | CANADA | 36 | \$300,000 2006 |
| Academic Prize | J.R.Mackay Young Researcher Award | CANADA | | \$0 2006 |
| | | | | |
| | | | | |

Research Expertise

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

Quaternary geoscience; dating methods; radiocarbon; envioronmental change; sedimentology; stratigraphy; geoarchaeology

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

| Rank | Code | Discipline | If Other, specify |
|------|-------|--|-----------------------|
| 1 | 80500 | Earth Sciences | |
| 2 | 80099 | Other Natural Sciences and Engineering | Quaternary geoscience |
| 3 | | | |
| 4 | | | |
| 5 | | | |

| Family name, Given name | |
|-------------------------|--|
| Froese Duane | |

| Funded Research | | | | | | | | |
|-----------------|---|------------------------|----------------------|-------------------------|--|--|--|--|
| | grants or contracts you have received from SSHR d. If you are not the applicant (principal investiga | | chronological order, | based on the | | | | |
| Org. code | Full name of funding organization | | Year awarded | Total amount (CAN\$) | | | | |
| 1 | Canada Research Chairs program | | 2010 | \$500,000 | | | | |
| Role | Applicant | | Completion status | Complete | | | | |
| Project title | CRC in Northern Environmental C | Change | | | | | | |
| Applicant's f | amily name | Applicant's given name | | Initials | | | | |
| Org. code | Full name of funding organization | | Year awarded | Total amount (CAN\$) | | | | |
| 3010316 | Natural Sciences and Engineering Canada | Research Council of | 2009 | \$120,000 | | | | |
| Role | Applicant | | Completion status | Complete | | | | |
| Project title | NSERC Discovery Accelerator Su | pplement | | | | | | |
| | | | | | | | | |
| Applicant's f | amily name | Applicant's given name | Initials | | | | | |
| Org. code | Full name of funding organization | | Year awarded | Total amount | | | | |
| Org. code | Natural Sciences and Engineering | Research Council of | (yyyy) | (CAN\$) | | | | |
| 3010316 | Canada | | 2009 | \$50,000 | | | | |
| Role | Applicant | | Completion status | | | | | |
| Project title | NSERC Northern Research Supple | ement | | | | | | |
| | | | | | | | | |
| Applicant's f | amily name | Applicant's given name | | Initials | | | | |
| Org. code | Full name of funding organization | | Year awarded | Total amount (CAN\$) | | | | |
| 3010316 | Natural Sciences and Engineering Canada | Research Council of | 2009 | \$385,000 | | | | |
| 2007 \$3 | | | | | | | | |
| Project title | | | | | | | | |
| Applicant's f | amily name | Applicant's given name | | Initials | | | | |

1. Research Contributions Over the Last Six Years (2006-2011)

- Select Refereed Papers/Volumes (2006-2011) 43 Papers +1 Edited Volume- only 30 listed here due to space (PDF and Graduate Students Underlined)
- **R** D'Costa, C. King, V., Kalan, L., Morar, M., Wilson, S., Schwarz, C., Froese, D.G., Zazula, G.D., Calmels, F., Debruyne, R., Golding, G.B., Poinar, H., Wright, G.D. (2011). Antibiotic resistance is ancient. *Nature*, 477, 457-461.
- R Schweger, C.E., Froese, D.G., White, J.M., and J.A. Westgate. 2011. Pre-glacial and interglacial pollen records over the last 3 Ma from northwest Canada: Why do Holocene forests differ from those of previous interglaciations? Quaternary Science Reviews, 30, 2124-2133.
- Zazula, G.D., Froese, D.G., Elias, S.A., Kuzmina, S., and Matthewes, R.W. 2011. Wisconsinan (MIS 4) arctic ground squirrel middens and a squirrel-eye view of the mammothsteppe: Quaternary Science Reviews, 33, 2220-2237.
- **R** Brock, F., Froese, D.G., and R.G. Roberts. 2011. Low temperature combustion of bulk sediments does not preclude old carbon bias. Quaternary Geochronology, 5, 625-630.
- R Arnold, L.J., Roberts, R.G., MacPhee, R.D.E., Haile, J.S., Brock, F., Moller, P., Froese, D.G., Tihonov, A.N., Chivas, A.R., and E. Willerslev 2011. Dirt, dates and DNA: OSL and radiocarbon chronologies of perennially-frozen sediments in Siberia, and their implications for sedimentary ancient DNA studies. Boreas, 40, 417-445
- R Reves AV, Zazula GD, Kuzmina S, Ager TA, Froese DG (2011) Identification of last interglacial deposits in eastern Beringia: a cautionary note from the Palisades, interior Alaska. Journal of Ouaternary Science. 26, 345-352.
- R Kennedy, K.E., Froese, D.G., Zazula, G.D., and B. Lauriol. 2010. Last Glacial Maximum age for the northwest Laurentide maximum from the Eagle River spillway and delta complex, northern Yukon: Quaternary Science Reviews, 29, 1288-1300.
- R Reyes, A.V., Froese, D.G., and B.J. Jensen 2010. Response of permafrost to last interglacial warming: field evidence from non-glaciated Yukon and Alaska. *Ouaternary Science Reviews*, 29, 3256-3274.
- R Reyes, A.V., Jensen, B.J.L., Zazula, G.D., Ager, T.A., Kuzmina, S., La Farge, C., Froese, D.G. 2010. A late-Middle Pleistocene (Marine Isotope Stage 6) vegetated surface buried by Old Crow tephra at the Palisades, interior Alaska: *Ouaternary Science Reviews*, 29, 801-811.
- R Szpak, P., Grocke, D.R., Debruyne, R., MacPhee, R.D.E., Guthrie, R.D., Froese, D.G., Zazula, G.D., Patterson, W.P. Poinar, H.N. 2010. Regional differences in bone collagen [delta]13C and [delta]15N of Pleistocene mammoths: Implications for paleoecology of the mammoth-steppe: Palaeogeography, Palaeoclimatology, Palaeoecology, 286 (1-2), 88-96.
- R Haile, J. Froese, D.G., MacPhee, R.D.E., Roberts, R.G., Arnold, L.J., Reyes, A.V., Rasmussen, M., Nielson, R. Brook, B.W., Robinson, S., Demuro, M. Gilbert, M.T.P., Munch, K., Austin, J. Cooper, A., Barnes, I., and E. Willersley. Ancient DNA reveals late survival of mammoth and horse in interior Alaska. Proceedings of the National Academy of Science, USA, 106, 22352-23357.
- R Lacelle, D., St.Jean, M., Clarke, I.D., Lauriol, B., Froese, D.G., Kuehn, S.K., and G.D. Zazula, in press. Burial history of a relict snowbank body and vegetation by the Dawson tephra (25,300 14C years BP), Ogilvie Mountains, central Yukon, Canada, Quaternary Science Reviews
- **R** Froese, D.G., Reyes, A.V., Westgate, J.A., Preece, S.J. 2009a. Implications of ancient ice: response: Science, 323 (5915), 714-715.
- **R** Froese, D.G., Zazula, G.D., Westgate, J.A., Preece, S.J., Sanborn, P., Reyes, A.V. and N.J.P Pearce. 2009b. The Klondike goldfields and Pleistocene environments of Beringia: Geological Society of America (GSA) Today, 19 (8), 4-10.

- R Kuehn, S., Froese, D.G., Foit, N., Carrara, P., Pearce, N.J.P., and Rotheisler, P., 2009, Late Pleistocene Glacier Peak tephra set revisited and revised: Major and trace element characterization, new distribution and chronology in western North America: *Quaternary Research*, 71, 201-216.
- **R** Thomsen, P.F., Elias, S., Gilbert, M.T.P., Haile, J., Munch, K., Kuzmina, S., Froese, D.G., Sher, A., Holdoway, R., and E. Willersley. 2009. How far can non-destructive sampling studies of ancient DNA take us? PLoS One, 4 (4), e5408.
- **R** Froese, D.G., Westgate, J.A., Reyes, A.V., Enkin, R.J., and S.J. Preece, 2008 Ancient permafrost and a future, warmer Arctic: Science, 321, 1648.
- R Herd, C.D.K., Froese, D.G., Walton, E.L., Kofman, R.S., Herd, E.P.K., and Duke, J., 2008, Anatomy of a young impact event in central Alberta: Prospects for the 'missing' Holocene impact record: Geology, 36, 955-958.
- R Lakeman, T.R., Clague, J.J., Menounos, B., Osborn, G.D., Jensen, B.J.L., and Froese, D.G. 2008, Holocene tephras in lake cores from northern British Columbia: Canadian Journal of Earth Sciences. 45, 935-947.
- **R** Livingston, J., Smith, D.G., Froese, D.G., and Hugenholtz, C., 2008, Floodplain stratigraphy of the ice jam dominated middle Yukon River: a new approach to longterm flood frequency: Hydrological *Processes*. 23, 357-371. DOI: 10.1002/hyp.7106
- **R** Ward, B.C., Bond, J.D., Froese, D.G., and Jensen, B.J.L., 2008, Old Crow tephra (140 ± 10 ka) constrains penultimate Reid glaciation in central Yukon Territory: Quaternary Science Reviews, 27, 1909-1915.
- **R** Dubruyne, R., Chu, G., King, C., Bos, K., Kuch, M., Schwarz, C., Szpak, P., Grocke, D., Matheus, P., Zazula, G., Guthrie, D., Froese, D., Buigues, B., De Marliave, C., Flemming, C., Poinar, D., Fisher, D., Southon, D., Tikhonov, A.N., Macphee, R.D.E., and Poinar, H. 2008. Out of America: Ancient DNA evidence for a new world origin of late Quaternary Woolly Mammoths: Current Biology, 18, 1320-1326.
- R Demuro, M., Roberts, R. G., Froese, D. G., Arnold, L. J., Brock, F., and Ramsey, C. B. 2008. Optically stimulated luminescence dating of single and multiple grains of quartz from perennially frozen loess in western Yukon Territory, Canada: Comparison with radiocarbon chronologies for the late Pleistocene Dawson tephra. *Quaternary Geochronology* 3, 346-364.
- **R** Jensen, B. J. L., Froese, D. G., Preece, S. J., Westgate, J. A., and Stachel, T., 2008. An extensive middle to late Pleistocene tephrochronologic record from east-central Alaska: Quaternary Science Reviews 27, 411-427.
- R Westgate, J. A., Preece, S. J., Froese, D. G., Pearce, N. J. G., Roberts, R. G., Demuro, M., Hart, W. K., and Perkins, W., 2008. Changing ideas on the identity and stratigraphic significance of the Sheep Creek tephra beds in Alaska and the Yukon Territory, northwestern North America: Quaternary International 178, 183-209.
- **R** Johnson, S.S., Hebsgaard, M.B., Christensen, T.R., Mastepanov, M., Nielsen, R., Munch, K., Brand, T., Gilbert, M.T.P., Zuber, M.T., Bunce, M., Ronn, R., Gilichinsky, D., Froese, D., and Willersley, E., 2007. Ancient bacteria show evidence of DNA repair: *Proceedings of the National* Academy of Sciences of the United States of America 104, p. 14401-14405.
- R Robinson, S., Beaudoin, A. B., Froese, D. G., Doubt, J., and Clague, J. J., 2007. Plant macrofossils associated with an early Holocene beaver dam in interior Alaska: Arctic 60, 430-438. (MSc. Thesis Research of S. Robinson)
- **R** Wooller, M.J., Zazula, G.D., Edwards, M., Froese, D.G., Boone, R.D., Parker, C., and Bennett, B. 2007. Stable Carbon Isotope Compositions of Eastern Beringian Grasses and Sedges: Investigating Their Potential as Paleoenvironmental Indicators. Arctic, Antarctic, and Alpine Research 39, 318-331.

- **R** Zazula, G.D., Froese, D.G., Elias, S.A., Kuzmina, S., and Mathewes, R.W. 2007. Arctic ground squirrels of the mammoth-steppe: paleoecology of Late Pleistocene middens (~24 000-29 450 14C yr BP), Yukon Territory, Canada: *Quaternary Science Reviews* 26, 979-1003.
- **R** Froese, D.G., <u>Zazula, G.D.</u>, and <u>Reyes, A.V.</u>, 2006. Seasonality of the late Pleistocene Dawson tephra and the exceptional preservation of a buried riparian surface in central Yukon Territory: *Quaternary Science Reviews* 25, p. 1542-1551.
- **R** Sanborn, P.T., Smith, C.A.S., Froese, D.G., and <u>Zazula, G.D.</u>, and Westgate, J.A., 2006. Full-glacial paleosols in perennially frozen loess sequences, Klondike goldfields, Yukon Territory, Canada: *Quaternary Research* 66, p. 147-157.

2. Other Research Contributions

Since 2005 I have been working with the Vuntut Gwitchin First Nation (and Government) on projects associated with environmental change in their traditional lands of northern Yukon. This work includes a community-based paleontology program which takes Gwitchin youth from the community into their traditional lands to collect fossils, and more recently a collaborative research project with the VGFN for the International Polar Year. This latter project involved a group of ten researchers ranging from community health to permafrost and Quaternary geology and palaeontology to look at issues associated with rapid changes in their traditional lands. In this project, the community set the research objective, and in fact, applied for the research money through the Government of Canada IPY program. One of the considerable objectives has been longterm training and capacity development. Recently, the community has taken an even stronger interest in this area, leading to a subsequent (successful) infrastructure grant to build community facilities to curate fossils collected in their traditional lands, and repatriate fossil collections to the village of Old Crow.

3. Most Significant Career Research Contributions

The steppe-tundra debate and composition of the 'mammoth-steppe'

One of our substantive contributions has been to contribute new proxies and understanding of the steppe-tundra debate and composition of the 'mammoth-steppe', the environment that characterized NW North America at the time of human colonization. With PhD student Grant Zazula, we provided new data on a longstanding debate about the nature of the full-glacial vegetation of this region utilizing new ecological indicators, novel dating approaches from ground squirrel middens and have largely settled this debate (e.g. Froese et al., 2009b, 2006; Zazula et al., 2007, 2005).

Environmental Change in Arctic North America from sedimentary records

I have been leading a diverse program in NW Canada since 1995 to establish a regional stratigraphic/tephrochronologic framework for the western Arctic, in particular using field exposures in the Klondike area of central Yukon. This area has evolved into a key region of the circum-Arctic for these studies through the combination of large accessible exposures associated with relict permafrost, permafrost-preserved plant and vertebrate fossils, and the ability to readily establish independent chronology through the interbedded tephra. (Froese et al., 2008, *Science*, 324)

- 4. Career Interruptions and Special Circumstances None.
- **5.** Contributions to Training (Currently 2 PDF, 4 PhD (2 co-supervised) 2 MSc.)

- Dr. Svetlana Kuzmina, Postdoctoral Fellow (IPY) Fossil insects and impacts of warmer climates of the past on the Arctic system (Interglacial analogues to future warming)
- Dr. Fabrice Calmels, Postdoctoral Fellow (NSERC PDF Award Holder) Permafrost dynamics
- Britta Jensen, PhD. Quaternary stratigraphy and tephrochronology of middle Pleistocene interglaciations in central Yukon and Alaska May 2007-.
- Robin Woywitka, PhD. Quaternary geology and geoarchaeology of the Oil Sands Region, NE Alberta
- Elizabeth Hall, MSc. Candidate *Biostratigraphy and paleoenvironments of Old Crow Flats interglacial beds (May 2007-)*

Co-Supervision

- Michelle Hanson, PhD. Candidate, Department of Earth Sciences, Simon Fraser University Correlation and dating of glacial Lake Missoula and the Channeled Scablands of Washington State (Sept 2006-; co-supervised with J. Clague, SFU)
- Derek Turner, PhD Candidate, Department of Earth Sciences, Simon Fraser University, Quaternary stratigraphy and tephrochronology of the upper White River and Kluane area, Yukon Territory (September 2008-; co-supervised with B. Ward, SFU)
- Véronique Germain, MSc. Candidate, Département des sciences de la terre et de l'atmosphère OSL dating of Late Pleistocene sandsheets along middle Yukon River (January 2008-; co-supervised with M. Lamothe, Université du Québec à Montréal)

Former Lab Members (not including 5 BSc Honours theses)

- Dr. Steven Kuehn, Postdoctoral Fellow (Alberta Ingenuity) Major and trace element characterization of distal glass shards and tephrochronology of Mt. Logan Ice Core. (Presently on faculty Department of Geology, Washington and Lee University, Virginia, USA)
- Dr. Grant Zazula, PhD. 2006 (Simon Fraser University, Biology) Paleoecology of late Pleistocene arctic ground squirrel middens and glacial environments of west-central Yukon Territory.
 Supervisory committee (Co-Supervision with R.W. Matthewes, SFU Biology). (Presently Yukon Palaeontologist, Government of Yukon)
- Dr. Alberto Reyes, Ph.D. 2010 Climate and permafrost degradation during the last interglaciation in Yukon and Alaska (Presently PDF, University of Wisconsin, Madison)
- Hayley Dunning, MSc. 2011. *Tephrochronology of SE Alaska and Mount Logan Ice Core*. (Presently School of Journalism, UBC)
- Britta Jensen, MSc. *Tephrochronology of middle-to-late Pleistocene loess in interior Alaska* April 2007. NSERC CGS, AIF Scholarships and Awards (PhD. Candidate, EAS U of A)
- Kristen Kennedy, MSc. Eagle River meltwater channel and timing of NW Laurentide Maximum, northern Yukon Territory January 2008. (Project Geologist, Yukon Geological Survey)
- Simon Robinson, MSc. Candidate *Late glacial-early Holocene climate of interior Alaska from plant macrofossils* May 2007. (ERM Consulting, Bristol, U.K.)
- Michael Davies, MSc. Candidate *Debris flow hazard evaluation in the Mt. Klapperhorn area, BC.* September 2007. (Engineering geologist, Bruce Geotechnical, Edmonton)

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| Identification | | | | | | | | | | |
| Only the information in the Name section will be made available to selection committee members and external assessors. Citizenship and Statistical and Administrative Information will be used by SSHRC for administrative and statistical purposes only. Filling out the statistical and Administrative Information section is optional. | | | | | | | | | | |
| Name | | | | | | | | | | |
| Family name | е | | Giver | n name | | | | | Initials | Title |
| Janetski | | | Joel | _ | | | | | С | Dr. |
| Citizensh | nip - Applicants | and co-applicants must in | ndicate | their citiz | zenship st | tatus by | checking and | answerin | g the applic | able questions. |
| Citizenship status | Canadian | Permanent resident si (yyyy/mm/dd) | ince | Oth | er (countr | ry) | | | | you applied for anent residency? |
| <u>UNITED STATES</u> OYes ONo | | | | | | es No | | | | |
| Statistical and Administrative Information | | | | | | | | | | |
| Birth year | n year Gender Permanent postal code in Canada (i.e. K2P1G4) Correspondence language Previous contact with SSHRC? (i.e. applicant, assessor, etc.) | | | | | | | | | |
| 1942 | OF ●M | | | | English | Fre | ench | | Yes | ● No |
| Full name u | sed during previ | ious contact, if different fro | m abo | ove | | | | | | |
| | | | | | | | | | | |
| | • | n ill help us to contact you m | ore ra | pidly. Sed | condary in | formatio | on will not be re | eleased b | oy SSHRC w | vithout your |
| Primary tele | phone number | | | | Second | ary telep | hone number | | | |
| Country Are code cod | | Extension | ı | | Country code | Area code | Number | | Extens | ion |
| 011 80 | 1 422-61 | 11 | | | 011 | 801 | 319-0542 | 2 | | |
| Primary fax | number | | | | Second | ary fax r | number | | | |
| | | | | | | ion | | | | |
| 011 80 | 1 422-00 | 21 | | | | | | | | |
| Primary E-m | joel_ja | anetski@byu.edu | | | | | | | | |
| Secondary I | E-mail | | | | | | | | | |

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Family name, Given name
Janetski, Joel

| Current Address Use only if you are not affiliated with a department at a Canadian | | | Correspondence Address Complete this section if you wish your correspondence to be sent | | | | |
|---|-----------------|--|---|-----------------|--|--|--|
| university. (If you are affiliated with a department at a Canadian university, the department's mailing address will be used.) If you wish to use another address, specify it under the Correspondence Address. | | | to an address other than your current address. | | | | |
| Address 276 North | | | Address | | | | |
| 2520 West | | | | | | | |
| | | | | | | | |
| City/Municipality Prov. / Postal/Zip code State | | City/Municipality | Prov. / State | Postal/Zip code | | | |
| Provo | UT | 84601 | | | | | |
| Country UNITED STATES | | | Country | | | | |
| Temporary Address If providing a temporary address, phone number and/or E-mail, ensure that you enter the effective dates. | | | Permanent Address in CANADA | | | | |
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| City/Municipality | Prov./ State | | City/Municipality | Prov./ State | | | |
| Country | | | Country | | | | |
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| Temporary E-mail | | | | | | | |

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Family name, Given name

Janetski, Joel

| Research Expertise (optional |
|------------------------------|
|------------------------------|

The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of Research

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

| Rank | Code | Area |
|------|------|-----------------------|
| 1 | 214 | Global/Climate Change |
| 2 | 240 | Indigenous peoples |
| 3 | | |

Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

| From | То |
|--------------------------|----------------------|
| Year 1200 ⊝ AD 400 ● ○ | Year 1700 ⊝ 1300 ⊝ |

Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

| парры | in applicable, indicate and failt up to 0 geographical regions covered by your resourch interests. Duplicate criticis are not permitted. | | | | | |
|-------|--|----------------|--|--|--|--|
| Rank | Code | Region | | | | |
| | | | | | | |
| 1 | 1000 | North America | | | | |
| 2 | 6500 | Southwest Asia | | | | |
| 3 | | | | | | |

Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

| Rank | Code | Countries | Prov./ State |
|------|------|---------------|-----------------|
| 1 | 1200 | UNITED STATES | UT |
| 2 | 1200 | UNITED STATES | AZ |
| 3 | 6507 | JORDAN | |
| 4 | | | |
| 5 | | | |

Conseil de recherches en sciences humaines du Canada

Curriculum Vitae

Family name, Given name

| Curriculum Vitae | | | | | Jai | netski, Joel | | |
|--|---------------------|--------------|--------------------|----------------|-----------|---------------------------|----------------------|---|
| Language Proficiency | | | | | | | | |
| Read English French | Write X | Speak X | Comprehend a | urally | Other la | anguages | | |
| Work Experie List the positions, ac chronological order, | ademic and non-ac | | you have held begi | nning with the | current p | position and all previous | positions in re | everse |
| Current position | | | | | | | | Start date |
| Full Professor | | | | | | | | (yyyy/mm) 1989/9 |
| Org. code | Full organization n | ame | | | | | | |
| 9977102 | Brigham You | ng Uni | iversity | | | | | |
| Department/Division | name | | | | | | | |
| Anthropology | | | | | | | | |
| Position type | Tenured | <u> </u> | lon-tenure | Employment | status | Full-time | O Part-ti | me |
| | Tenure-track | \bigcirc N | Ion-academic | | | Non-salaried | Leave | of absence |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) |
| Director | | | | | | | 1984/9 | 1995/9 |
| Org. code | Full organization n | ame | | | | | | |
| 9977102 | Brigham You | ıng Un | iversity | | | | | |
| Department/Division | name | | | | | | | |
| Museum of Pe | oples and Cult | ures | | | | | | |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) |
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| Org. code | Full organization n | ame | | | | | • | |
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| Department/division | name | | | | | | | |
| | | | | | | | | |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) |
| Org. code | Full organization n | ame | | | | | - | |
| Department/Division | name | | | | | | | |

| Family name, Given name | |
|-------------------------|--|
| Ianetski Ioel | |

| Academic Background | | | | | | | | |
|---|--|-------------------------|---------------------------------|---------------------------|--|--|--|--|
| List up to 5 degrees, beginning with the highest degree first and all others in reverse chronological order, based on the start date. | | | | | | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) | | | | |
| Doctorate | Doctor of Philosophy | 1978/09 | | 1983/05 | | | | |
| Disc. code | Discipline | | Did SSHRC su you to get this | | | | | |
| 60414 | Hunters and Gatherers | | Yes | No | | | | |
| Org. code | Organization | | | | | | | |
| 9977101 | University of Utah | | | | | | | |
| Country UNITED | STATES | | | | | | | |
| Degree type | Degree name | Start date | Expected date | Awarded date | | | | |
| Master's | | (yyyy/mm) 1974/09 | (yyyy/mm) | (yyyy/mm) 1977/05 | | | | |
| Disc. code | Discipline | | Did SSHRC su you to get this | | | | | |
| 60402 | Archaeology - General: Theory and Method | | Yes | ● No | | | | |
| Org. code | Organization | | | | | | | |
| 9977101 | University of Utah | | | | | | | |
| Country UNITED | STATES | | | | | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) | | | | |
| Disc. code | Discipline | | Did SSHRC su you to get this | | | | | |
| | | | Yes | No | | | | |
| Org. code | Organization | | | | | | | |
| Country | | | | | | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) | | | | |
| Disc. code | Discipline | | Did SSHRC su you to get this | | | | | |
| | | | Yes | No | | | | |
| Org. code | Organization | | | | | | | |
| Country | | | | | | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) | | | | |
| Disc. code | Discipline | | Did SSHRC su you to get this | degree? | | | | |
| | | | Yes | ○ No | | | | |
| Org. code | Organization | | | | | | | |
| Country | | | | | | | | |

Family name, Given name
Janetski, Joel

Credentials

List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

| Category | Name | Source or Country | Duration | Value / Year |
|-------------------|--------------------------------------|-------------------|----------|--------------|
| | | | (Months) | awarded |
| Honorary Position | Fellow Utah Historical Society | UNITED STATES | | |
| | | | | 2007 |
| Professional | Achievement in Sponsored | UNITED STATES | | \$0 |
| Designation | Research | | | 2005 |
| Professional | Wesley P. Lloyd award for | UNITED STATES | | \$0 |
| Designation | graduate ed | | | 2003 |
| Academic Prize | Dale Morgan award, scholarly article | UNITED STATES | | \$0 |
| | | | | 1991 |
| Honorary Position | Fellow Utah Professional | UNITED STATES | | \$0 |
| | Archaeological Council | | | 1990 |
| | | | | |
| | | | | |

Research Expertise

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

Hunter-gatherers, small scale farmers, trade, zooarchaeology

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

| Rank | Code | Discipline | If Other, specify |
|------|-------|--|-------------------|
| 1 | 60414 | Hunters and Gatherers | |
| 2 | 60422 | Origins and Development of Agriculture | |
| 3 | 60432 | Trade and Trade Routes, Culture Contact, Cultural Relations | |
| 4 | 60420 | Methods and Techniques | |
| 5 | | | |

| Family name, Given name |
|-------------------------|
| Janetski, Joel |

| Funded | Funded Research | | | | | | |
|---|---|-------------------------------|-------------------------|----------------------------|------------------------|--|--|
| List up to 8 grants or contracts you have received from SSHRC or other sources. List them in reverse chronological order, based on the year awarded. If you are not the applicant (principal investigator), specify that persons' name. | | | | | | | |
| Org. code | Full name of funding organization | Year awarded (yyyy) | To | otal amount (CAN\$) | | | |
| 1 | National Science Foundation | 2008 | 4 | 588,000 | | | |
| Role | A 11 | | | · | | | |
| | Applicant | | Completion statu | | Complete | | |
| Project title | Late Pleistocene/Early Holocene A Southern Utah | archaeology at North Creek Sh | nelter, Escalai | nte V | alley, | | |
| Applicant's f | amily name | Applicant's given name | | | Initials | | |
| Org. code | Full name of funding organization | | Year awarded | To | otal amount (CAN\$) | | |
| 1 | National Science Foundation | | (yyyy) 2007 | ¢ | | | |
| 1 | | | 2007 | | 103,000 | | |
| Role | Co-applicant | | Completion statu | | Complete | | |
| Project title | Project title Grand Gulch Basketmaker: Stable Isotope Chemistry, AMS Radiocarbon dating and Documentation of Burial Context | | | | | | |
| Applicant's f | amily name | Applicant's given name | | | Initials | | |
| Coltrain | | Joan | Joan | | | | |
| Org. code | Full name of funding organization | | Year awarded | To | otal amount | | |
| | Nnational Geograpic Society | | (yyyy) 2004 | (CAN\$) | | | |
| 1 | | | 2004 | 2004 \$20,000 | | | |
| Role | Applicant | | Completion statu | us X | Complete | | |
| Project title | Natufian Archaeology in the Petra | Basin of Southern Jordan | | | | | |
| Applicant's f | amily name | Applicant's given name | | | Initials | | |
| Org. code | Full name of funding organization | | Year awarded Total amou | | otal amount (CAN\$) | | |
| | | | | | | | |
| Role | | | | Completion status Complete | | | |
| Project title | | | | | | | |
| Applicant's f | amily name | Applicant's given name | | | Initials | | |

1. Research Contributions over the Last Six Years

A. Refereed Contributions

- **R** Janetski, J. D., D. T. Yoder, M. Bodily, and B. E. Newbold . 2011. Deep Human History in the Escalante Valley of Southern Utah. *Utah Historical Quarterly* 79 (3):204-223. 80%
- **R** Baadsgaard, Aubrey, J. C. Janetski, M. Chazan, and L. S. Cummings. 2010. Natufian Strategy Shifts: Evidences from Watdi Mataha 2, Petra, Jordan. *Eurasian Prehistory* 7(1): 7-27. 60%
- **R** Janetski, J. C. 2008. The Enigmatic Fremont. In *The Great Basin: People and Place in Ancient Times*, edited by Catherine S. Fowler and Don D. Fowler, pp. 105-116. School of Advanced Research Press, Santa Fe.
- R Jantski, J. C. 2010. *Archaeology and Native American at Fish Lake, Central Utah*. Occasional Papers No. 16. Museum of Peoples and Cultures, Brigham Young University, Provo.
- R Coltrain, J. B., Janetski, J. C., and S. W. Carlyle. 2007. The Stable-and Radio-Isotope Chemistry of Western Basketmaker Burials: Implications for Early Puebloan Diets and Origins. *American Antiquity* 72:301-321. 40%
- R Janetski, J. C., 2007. Great Basin Animals. In *Environments, Origins, and Populations*, edited by B. H. Ubelaker and B. D. Smith, pp351-364. Smithsonian Handbook of North American Indians, Vol. 3. W. C. Sturtevant, general editor. Smithsonian Institute Press, Washington DC.
- **R** Janetski, J. C., 2006 Mosquito Willie (42TO137): A Late Archaic Site on the Western Edge of the Great Salt Lake Desert. *Journal of California and Great Basin Anthropology* 26(1):75-92.

B. Other Refereed Contributions

- R Janetski, J. C. 2011. Animal Use in the Great Basin of North America. In *The Subsistence Economies of Indigenous North American Societies*, edited by Bruce D. Smith, pp. 271-305. Smithsonian Institution Scholarly Publications, Washington DC.
- **R** Janetski, J. C., R. E. Hughes. 2010. Two Fluted Points from Fish Lake, Central Utah. *Current Research in the Pleistocene* 27:100-101. (50%)
- **R** Yoder, D. T., Janetski, J. C., Mark Bodily, Sara Hill, and Bradley E. Newbold . 2010. The Onset of Small Seed Processing on the Colorado Plateau. *Kiva* 74(4):425-446. 30%
- R Janetski, J. C., and G. C. Smith. 2007. *Hunter-Gatherer Archaeology in Utah Valley*. Occasional Papers No. 12. Museum of Peoples and Cultures, Brigham Young University. 80%
- R Janetski, J. C.,, L. Kreutzer, R. K. Talbot, L. D. Richens, and S. A. Baker. 2005. *Life on the Edge: Archaeology in Capitol Reef National Park*. Museum of Peoples and Cultures Occasional Papers No. 11. Brigham Young University, Provo. 20%
- R Janetski, J. C., 2005. Shifts in Epipaleolithic Marine Shell Exploitation at Wadi Mataha, Southern Jordan. In *Archaeomalacology: Molluscs in Former Environments of Human Behavior*, edited by Daniella E. Bar-Yosef Mayer, pp. 148-158. Oxbow Books, Oxford.
- R Janetski, J. C., J. T. Stock, S. K. Pheiffer, M. Chazan. 2005. F-81 Skeleton from Wadi Mataha, Jordan, and its Bearing on Human Variability in the Epipaleolithic of the Levant. *American Journal of Physical Anthropology* 128(2):453-465. 20%

C. Non-Refereed Contributions/Presentations

- Janetski, J. C. 2010. A Closer Look: Intra-site Spatial Patterning and Its Implications for Fremont. Paper presented at the Great Basin Anthropological Conference, Layton, Utah, October 19-23.
- Janetski, J. C. 2010. Fremont Genesis: A Basketmaker Perspective. Invited paper presented in the Plenary session, Great Basin Anthropological Conference, Layton, Utah, October 19-23
- Jantski, J. C., and J. B. Coltrain. 2010. New Dietary and Temporal Data on Basketmaker II Remains from Southeastern Utah. Invited paper presented at the 75th Annual Meeting of the Society for American Archaeology, St Louis, Missouri, April 14-18, 2010.
- Jantski, J. C. 2010. Invited discussant for the symposium entitled "Celebrating A Decade of Discovery, Archaeology, Heritage Education, and Outreach on the Bureau of Land Management's National Landscape Conservation System" at the 75th Annual Meeting of the Society for American Archaeology, St Louis, Missouri, April 14-18, 2010.
- Janetski, J. C. 2009. Promontory Archaeology. Invited paper presented at the Dene Migration Symposium hosted by the Tsuut'ina Gunaha Institute and the University of Alberta, Calgary, Alberta, September 25th, -27th
- Janetski, J.C., D. Yoder, M. Bodily, B. Newbold, and S. Hill, 2008, The Onset of Small Seed Processing on the Colorado Plateau: Insights from North Creek Shelter. Paper presented at the 31st Great Basin Anthropological Conference, Portland, Oregon. 40%
- Janetski, J. C., 2008, Fremont Anasazi Boundary Maintenance and Permeability in the Escalante Drainage. Paper presented at the 31st Great Basin Anthropological Conference, Portland, Oregon.
- Janetski, J. C., 2006 A Fremont Retrospective. Invited paper presented in "Past Present and Future Issues in Great Basin Archaeology: Papers in Honor of Don D. Fowler" symposium at the Great Basin Anthropological Conference, Las Vegas, October 19-21.
- Janetski, J. C., 2005 Human Use of Utah Lake Prior to Anglo Settlement. Invited paper presented at the Utah Lake Symposium, Utah Valley State College, Orem, September 22, 2005.
- Janetski, J. C., 2004. Native Americans and the Great Basin Landscape, Invited paper presented at the 57th Annual Meeting of the Society for Range Management, Salt Lake City, January 26,2004

D. Forthcoming Contributions

- R Janetski, J. C., L. D. Richens, R. K. Talbot. In press. Fremont Anasazi Boundary Maintenance and Permeability in the Escalante Drainage. In *Meetings at the Margins: Prehistoric Cultural Interactions in the Intermountain West*, edited by David Rhode. University of Utah Press, Salt Lake City. 60%
- R Janetski, J. C., C. B. Jardine, C. N. Watkins. In press. Interaction and Exchange in Fremont Society. In press In *Perspectives on Prehistoric Trade and Exchange in California and the Great Basin*, edited by Richard E. Hughes. University of Utah Press, Salt Lake City. 40%

- R Newbold, B. E., Janetski, J. C., David T. Yoder, Mark Bodily. In press. Early Holocene Turkey (*Meleagris gallopavo*) Remains from Southern Utah: Implications for the Origins of the Puebloan Domestic Turkeys. *Kiva*. 80%
- **R** Janetski, J. C., D. T. Yoder, M. Bodily, and B. E. Newbold. In press. Paleoarchaic to Early Archaic Transition on the Colorado Plateau: The Archaeology of North Creek Shelter. *American Antiquity*. 80%
- R Janetski, J. C., and C. Thompson. In Press. Changing Puebloan Subsistence: the View from Montezuma Canyon. In *An Archaeological Legacy: Essays in Honor of Ray T. Matheny*, edited by D. G. Matheny, G. N. Grimm, and J. C. Janetski. Occasional Papers, Museum of Peoples and Cultures, Brigham Young University, Provo. 80%

3. Most Significant Career Research Contributions

- R Coltrain, J. B., J. C. Janetski, S. W. Carlyle. 2007. The Stable-and Radio-Isotope Chemistry of Western Basketmaker Burials: Implications for Early Puebloan Diets and Origins. *American Antiquity* 72:301-321. 40%
- **R** Janetski, J. C., 2002. Trade in Fremont Society: Contexts and Contrasts, *Journal of Anthropological Archaeology* 21(3):344-370.
- **R** Janetski, J. C., 2002. *Indians in Yellowstone*, revised edition, University of Utah Press, Salt Lake City.
- **R** Janetski, J. C., 1997. Fremont Hunting and Resource Intensification in the Eastern Great Basin. *Journal of Archaeological Science* 24:1075-1088.
- R Janetski, J. C., 1994. Recent Transitions in the Eastern Great Basin: The Archaeological Record. In *Across the West: Human Population Movement and the Expansion of the Numa*, edited by D. B. Madsen and D. Rhode, pp. 157-178. Anthropological Papers. University of Utah Press, Salt Lake City.

4. Career Interruptions (none)

5. Contributions to Training over the Last Six Year (MA only at BYU) **PhD** (Current)

C. Cole. *Prehistoric Archaeology in North Meadow Valley Wash, Eastern Nevada*. University of California, Davis. (Committee Member)

R. Nash. *The Role of Maize in Low-Level Food Production Economies of Northeastern Utah* (Current, Committee Member, Candidacy Examiner, 2008)

MA (Completed only)

- A. Woods. *Distribution, Function*, and Value of Parowan Valley Projectile Points. (Committee Chair, 2009)
- M. Bodily. Residential Mobility of Paleoarchaic and Early Archaic Occupants of North Creek Shelter (42GA65863): An Analysis of Chipped Stone Artifacts. (Committee Chair, 2009)
- D. Harris. Fremont Distribution in the Upper Escalante Drainage. (Committee Chair, 2009)
- B. E. Newbold. *Paleoindian Lifeways of Paleoarchaic Peoples: A Faunal Analysis of Early Occupations at North Creek Shelter, Utah.* (Committee Chair, 2009)

JANETSKI, Joel C.

- M. Hall. Parowan Valley Gaming Pieces and Insights into Fremont Social Organization. (Committee Chair, 2008)
- B. Friel. *Short Term Military Camps on the Carter Road: A Functional Analysis*. (Committee Chair, 2008)
- C. Jardine. Fremont Finery: Exchange and Distribution of Turquoise and Olivella Ornaments in Parowan Valley and Beyond. (Committee Chair, 2007)
- C. Watkins. Parowan Pottery and Fremont Complexity: Late Formative Ceramic Production and Exchange. (Committee Chair, 2006)
- D. T. Yoder, *Storage and Mobility Among the Fremont: Changing Forms Through Time*. (Committee Chair, 2005).

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Social Sciences and Humanities Research Council of Canada

Full name used during previous contact, if different from above

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|---|-------------------------|---|-------------|--|--|----------------|---------------------------------|
| 957349 | | | | | 204840 | | |
| Identifi | cation | | | | | | |
| Statistical a | and Administrative | | | able to selection committee member SHRC for administrative and statisti | | | • |
| Name | | | | | | | |
| Family nam | ne | | Give | n name | | Initials | Title |
| Ramsey | | | Christopher | | | СВ | Professor |
| Citizensl | hip - Applicants | and co-applicants must in | dicate | e their citizenship status by checkin | g and answeri | ng the applica | able questions. |
| Citizenship Canadian Permanent resident s status (yyyy/mm/dd) | | | ince | ee Other (country) | | | you applied for nent residency? |
| | | | • | UNITED KINGDOM Yes No | | | es No |
| Statistic | al and Admin | nistrative Informatio | n | | | | |
| Birth year | Gender | Permanent postal code in Canada (i.e. K2P1G4) | | Forrespondence language | Previous contact with SSHI (i.e. applicant, assessor, et | | |
| 1062 | OF M | | | English French | | ○ Ves | ■ No |

| Conta | Contact Information | | | | | | | | |
|-----------------|---|-----------|-----------|--------------|----------------------|-------------|-----------|--|--|
| | The following information will help us to contact you more rapidly. Secondary information will not be released by SSHRC without your express consent. | | | | | | | | |
| Primary | telephor | ne number | | Second | ary telep | hone number | | | |
| Country code | Area code | Number | Extension | Country code | Area code | Number | Extension | | |
| 44 | 1865 | 285215 | | | | | | | |
| Primary | fax num | ber | | Second | Secondary fax number | | | | |
| Country code | Area code | Number | Extension | Country code | Area code | Number | Extension | | |
| Primary | Primary E-mail christopher.ramsey@rlaha.ox.ac.uk | | | | | | | | |
| Second | Secondary E-mail christopher.ramsey@me.com | | | | | | | | |

Do not photocopy this page.

Family name, Given name
Ramsey, Christopher

| Current Address Use only if you are not affiliated with a university. (If you are affiliated with a university, the department's mailing awish to use another address, specify in Address. | Correspondence Address Complete this section if you wish your correspondence to be sent to an address other than your current address. | | | | | | |
|--|--|---|--|--------------------|-----------------|-----------------|--|
| Address Research Laboratory for Arc | chaeology | | Address | | | | |
| and the History of Art | <u>enacorogy</u> | | | | | | |
| Dyson Perrins Building | | | | | | _ | |
| South Parks Road, Oxford (| OX1 3QY | | City/Municipality | | Prov. / | Postal/Zip code | |
| | - Oity/intaliopality | | State | 1 00ta // 21p 00de | | | |
| Country UNITED KINGDOM | Country | 1 | | | | | |
| Temporary Address If providing a temporary address, phone number and/or E-mail, ensure that you enter the effective dates. | | | Permanent Address in CANADA | | | | |
| Address | | | Address | | | | |
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| City/Municipality Prov./ State | | | City/Municipality | | Prov./ State | Postal/Zip code | |
| Country | | | Country | | <u>I</u> | | |
| Start date End date (yyyy/mm/dd) (yyyy/mm/dd) | | | Temporary telephone/fax number Country Area Number code code | | Extensior | 1 | |
| Temporary E-mail | | | • | | | | |

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Family name, Given name
Ramsey, Christopher

| Research Expertise (optic | onal) |
|---------------------------|-------|
|---------------------------|-------|

The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of Research

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

| Rank | Code | Area |
|------|------|--------------------------------|
| 1 | 214 | Global/Climate Change |
| 2 | 360 | Science and technology |
| 3 | 180 | Environment and Sustainability |

Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

| From | То |
|-----------------|-------------------|
| Year BC AD ○ ○ | Year BC AD 2009 |

Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

| парри | in applicable, indicate and rain up to a geographical regions covered by your resourch interests. Bupileate critics are not permitted. | | | | | | |
|-------|--|---------------|--|--|--|--|--|
| Rank | Code | Region | | | | | |
| | | | | | | | |
| 1 | 3000 | Europe | | | | | |
| 2 | 9001 | International | | | | | |
| 3 | | | | | | | |

Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

| Rank | Code | Countries | Prov./ State |
|------|------|----------------|-----------------|
| 1 | 3225 | UNITED KINGDOM | |
| 2 | 5103 | EGYPT | |
| 3 | 3205 | FRANCE | |
| 4 | 6203 | JAPAN | |
| 5 | | | |

Conseil de recherches en sciences humaines du Canada

Curriculum Vitae

Family name, Given name

| Language Proficiency | | | | | | | | |
|--|------------------------------|-----------|-------------------|----------------|--------------|-------------------------|-------------------------|-----------------------|
| Read | Write | Speak | Comprehend a | urally | Other lan | guages | | |
| English X | × | X | X | | | | | |
| French X | Ш | X | X | | | | | |
| Work Experient List the positions, ac chronological order, | ademic and non- | | ou have held begi | nning with the | e current po | sition and all previous | positions in re | everse |
| Current position | | | | | | | | Start date |
| Full Professor | | | | | | | | (yyyy/mm) 2006/9 |
| Org. code | Full organization | name | | | | | | |
| 9121131 | University of | of Oxford | | | | | | |
| Department/Division | name | | | | | | | |
| Research Labo | oratory for A | chaeolog | y and the His | tory of A | t | | | |
| Position type | Tenured | ○ No | n-tenure | Employmen | t status | Full-time | O Part-tir | ne |
| | Tenure-track | ○ No | n-academic | | | Non-salaried | Leave | of absence |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) |
| Director | | | | | | | 2003/9 | (3333/) |
| Org. code | Full organization | name | | | | | | |
| 9121131 | University | of Oxford | l | | | | | |
| Department/Division | name | | | | | | | |
| Oxford Radioc | carbon Accel | erator Un | i | | | | | |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) |
| Lecturer | | | | | | | 1999/9 | 2006/9 |
| Org. code | Full organization | name | | | | | | |
| 9121131 | University | of Oxford | l | | | | | |
| Department/division | name | | | | | | | |
| Research Laboratory for Archaeology and the History of Art | | | | | | | | |
| Position Start date (yyyy/mm) End (yyyy/mm) | | | | | | | | End date (yyyy/mm) |
| Researcher | | | | | | | 1987/9 | 1999/9 |
| Org. code Full organization name | | | | | | | | |
| 9121131 | 9121131 University of Oxford | | | | | | | |
| Department/Division | name | | | | | | | |
| Research Laboratory for Archaeology and the History of Art | | | | | | | | |

| Family name, Given name | |
|-------------------------|--|
| Ramsey, Christopher | |

| Work Experi | ence (cont'd) | | | | | |
|---------------------|--------------------------|-------------------------|-----------------------|--|--|--|
| Position | | Start date (yyyy/mm) | End date (yyyy/mm) | | | |
| College Lectur | College Lecturer | | | | | |
| Org. code | Full organization name | 1985/9 | | | | |
| 9121131 | University of Oxford | | | | | |
| Department/Division | name | | | | | |
| Merton College | e | | | | | |
| Position | | Start date | End date | | | |
| | | (yyyy/mm) | (yyyy/mm) | | | |
| Org. code | Full organization name | | | | | |
| | | | | | | |
| Department/Division | n name | | | | | |
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| Family name, Given name |
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| Ramsey, Christopher |

| Academic B | | | | |
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| List up to 5 degrees | , beginning with the highest degree first and all others in reverse chronologic | cal order, bas | sed on the start | date. |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) |
| Doctorate | DPhil | 1983/10 | | 1987/08 |
| Disc. code | Discipline | | Did SSHRC su you to get this | |
| 80400 | Physics | | Yes | ● No |
| Org. code | Organization | | | |
| 9121131 | University of Oxford | | | |
| Country UNITED | KINGDOM | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) |
| Master's | MA (Oxon) | 1980/10 | (уууу/////// | 1987/08 |
| Disc. code | Discipline | 1700/10 | Did SSHRC su | |
| | Physics | | you to get this | |
| 80400 | | | O res | O NO |
| Org. code | Organization | | | |
| 9121131 | University of Oxford | | | |
| Country UNITED | KINGDOM | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) |
| BA Hon. | BA Natural Sciences | 1980/10 | | 1983/08 |
| Disc. code | Discipline | | Did SSHRC su you to get this | |
| 80400 | Physics | | Yes | ● No |
| Org. code | Organization | | | |
| 9121131 | University of Oxford | | | |
| Country UNITED | KINGDOM | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) |
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| | | | Yes | No |
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| Family name, Given name |
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| Ramsey, Christopher |

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List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

| Category | Name | Source or Country | Duration (Months) | Value / Year awarded |
|------------------------------|--------------------------------|------------------------------|----------------------|-------------------------|
| Undergraduate Scholarship | Postmastership, Merton College | University UNITED KINGDOM | 36 | \$0 1980 |
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| Docoarch | Expertise |
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| Neseai Cii | EXPELLISE |

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

Dating; Statistics; Mass Spectrometry; Prehistory; Radiocarbon; Quaternary Science

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

| Rank | Code | Discipline | If Other, specify |
|------|-------|----------------|-------------------|
| 1 | 60400 | Archaeology | |
| 2 | 80400 | Physics | |
| 3 | 80500 | Earth Sciences | |
| 4 | 80100 | Mathematics | |
| 5 | | | |

| Family name, Given name | |
|-------------------------|--|
| Ramsey, Christopher | |

| Funded | Research | 1 | | | | |
|---|--|-----------------------------------|---------------------|-----------------------|-----------------------|--|
| List up to 8 grants or contracts you have received from SSHRC or other sources. List them in reverse chronological order, based on the year awarded. If you are not the applicant (principal investigator), specify that persons' name. | | | | | | |
| Org. code | Full name of funding organization | Year awarded (yyyy) | To | tal amount (CAN\$) | | |
| 1 | NERC | | 2010 | \$ | 177,740 | |
| Role | C II . | | | _ | · | |
| | Co-applicant | 11 1 0 11 1 0 1 | Completion statu | | Complete | |
| Project title | Towards a Decadally-Resolved Ra New Zealand Kauri | diocarbon Calibration for the | Last Glacial F | erio(| d Using | |
| Applicant's f | amily name | Applicant's given name | | | Initials | |
| Turney | | Christopher | | | | |
| Org. code | Full name of funding organization | | Year awarded | To | tal amount (CAN\$) | |
| 1 | NERC (UK) | | 2008 | ¢ 1 | ` ', | |
| Role | | | | _ | ,433,000 | |
| | Co-applicant | | Completion statu | s <u> </u> | Complete | |
| Project title | : RESET: RESponse of humans to | abrupt Environmental Transit | ions | | | |
| Applicant's f | amily name | Applicant's given name | | | Initials | |
| Lowe | | John | | | J | |
| Org. code | Full name of funding organization | | Year awarded (yyyy) | To | tal amount (CAN\$) | |
| 1 | NERC (UK) | | 2008 | ¢ 1 | | |
| 1 Pole | | | | | ,897,000 | |
| Role | Applicant | | Completion statu | s | Complete | |
| Project title | Funding for the Oxford node of the | e ?NERC RadioCarbon Facilit | y? | | | |
| Applicant's f | amily name | Applicant's given name | | | Initials | |
| Nakagaw | a | Takeshi | | | T | |
| Org. code | Full name of funding organization | | Year awarded | To | tal amount (CAN\$) | |
| 1 | NERC (UK) (yyyy) 2008 (S | | | \$ | 169,000 | |
| | | | Complete | | | |
| Project title | | piect: terrestrial radiocarbon co | | | · | |
| Project title Lake Suigetsu varved sediment project: terrestrial radiocarbon calibration model and inter-regional comparison of climate changes | | | | | | |
| Applicant's f | amily name | Applicant's given name | | | Initials | |
| Nakagawa | | Takeshi | | | T | |

| Family name Civen name | |
|-------------------------|--|
| Family name, Given name | |
| Ramsey Christopher | |

| Funded | Funded Research (cont'd) | | | | | |
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| | | | | | | |
| Org. code | Full name of funding organization | Year awarded | Total amount | | | |
| 1 | NERC (UK) | | 2006 | (CAN\$) \$554,000 | | |
| Role | Co annlicant | | | Complete | | |
| | Co-applicant | I'd' a da a a a a a a a a a a a a a a a a | Completion status | | | |
| Project title | Dating of the Middle-Upper Palaed AMS radiocarbon | olithic transition in western Eu | irope using ultra | filtration | | |
| Applicant's f | amily name | Applicant's given name | | Initials | | |
| Higham | | Tom | | TFG | | |
| Org. code | Full name of funding organization | | Year awarded (yyyy) | Total amount (CAN\$) | | |
| 1 | Leverhulme Trust (UK) | | 2006 | \$423,000 | | |
| Role | Applicant | | Completion status | | | |
| Project title | Synchronising absolute scientific of | lating and the Fountian | Completion states [2 | Complete | | |
| , | Sylicinomising absorate scientific c | | | _ | | |
| Applicant's f | amily name | Applicant's given name | | Initials | | |
| Christopl | ner Ramsey | Christopher | | | | |
| Org. code | Full name of funding organization | | Year awarded (yyyy) | Total amount (CAN\$) | | |
| 1 | NERC (UK) | | 2005 | \$743,000 | | |
| Role | Applicant | | Completion status | | | |
| Project title | Funding for ?Oxford Radiocarbon | Dating Service? NERC facili | _ | -1 complete | | |
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| Christopl | ner Ramsey | Christopher | | | | |
| Org. code | Full name of funding organization | | Year awarded | Total amount | | |
| 1 | English Heritage (yyyy) | | (CAN\$) | | | |
| | | | \$34,000 Complete | | | |
| Applicant Complete | | | | Complete | | |
| Project title Development of the OxCal program | | | | | | |
| Applicant's f | amily name | Applicant's given name | | Initials | | |
| Christopl | ner Ramsey | Christopher | | | | |

1. Research Contributions over the past 6 years

A. Refereed Contributions

- **R** Bronk Ramsey, C., Dee, M., Rowland, J., Higham, T., Harris, S., Brock, F., Quiles, A., Wild, E., Marcus, E. & Shortland, A., (2010), Radiocarbon-Based Chronology for Dynastic Egypt, Science, 328,1554-1557.
- R Brock, F., Higham, T.F.G., Ditchfield, P. & Bronk Ramsey, C., (2010), Current pretreatment methods for AMS radiocarbon dating at the Oxford Radiocarbon Accelerator Unit (ORAU), *Radiocarbon*, **52(1)**,103-112
- **R** Dee, M.W., Brock, F., Harris, S.A., Bronk Ramsey, C., Shortland, A.J., Higham, T.F.G. & Rowland, J.M., (2010), Investigating the likelihood of a reservoir offset in the radiocarbon record for ancient Egypt, *Journal of Archaeological Science*, **37**,687-693
- **R** Rasmussen M., Li, Y., Lindgren, S., Higham, T.F.G, Bronk Ramsey, C. *et.al.*, (2010), Ancient human genome sequence of an extinct Palaeo-Eskimo, *Nature*, **463**,757-762
- R Reimer, P.J., Baillie, M.G.L., Bard, E., Bayliss, A., Beck, J.W., Blackwell, P.G., Bronk Ramsey, C., Buck, C.E., Burr, G.S., Edwards, R.L., Friedrich, M., Grootes, P.M., Guilderson, T.P., Hajdas, I., Heaton, T.J., Hogg, A.G., Hughen, K.A., Kaiser, K.F., Kromer, B., McCormac, F.G., Manning, S.W., Reimer, R.W., Richards, D.A., Southon, J.R., Talamo, S., Turney, C.S.M., van der Plicht, J. &, (2009), IntCal09 and Marine09 Radiocarbon Age Calibration Curves, 0–50,000 Years cal BP, *Radiocarbon*, **51(4)**,1111-1150
- **R** Hogg, A., Bronk Ramsey, C., Turney, C. & Palmer, J., (2009), Bayesian evaluation of the Southern Hemisphere Radiocarbon Offset during the Holocene, *Radiocarbon*, **51(4)**,1165-1176
- **R** Higham, T.F.G, Barton, H., Turney, C.M.T., Barker, G., Bronk Ramsey, C., & Brock, F., (2009), Radiocarbon dating of charcoal from tropical sequences: Results from the Niah Great Cave, Sarawak and their broader implications, *Journal of Quaternary Science*, **24(2)**,189-197
- **R** Bronk Ramsey, C., (2009), Dealing with outliers and offsets in radiocarbon dating, *Radiocarbon*, **51(3)**,1023-1045
- R Bronk Rasmey, C., Bayesian analysis of radiocarbon dates, (2009), Radiocarbon, 51(1), 337-360
- R DeMuro, M., Roberts, R.G., Froese, D.G., Arnold, L.J., Brock, F. & Bronk Ramsey, C., (2008), Optically stimulated luminescence dating of single and multiple grains of quartz from perennially-frozen loess in western Yukon Territory, Canada: Comparison with radiocarbon chronologies for the late Pleistocene Dawson tephra, Quaternary Geochronology, 3(4),346-364
- **R** Bronk Ramsey, C., (2008), Radiocarbon dating: revolutions in understanding, Archaeometry, 50(2),249-275
- R Bronk Ramsey, C., (2008), Deposition models for chronological records, Quaternary Science reviews, 27,42-60
- **R** Naysmith, P., Scott, E.M., Cook, G.T., Heinemeier, J, van der Plicht, J., Van Strydonck, M., Bronk Ramsey, C., Grootes, P.M. & Freeman, S.P.H.T., (2007), A cremated bone intercomparison study, Radiocarbon, 49(2),403-408
- R Loveday, R., Gibson, A., Marshall, P.D., Bayliss, A., Bronk Ramsey, C. & van der Plicht, H., (2007), The antler maceheads dating project, Proceedings of the Prehistoric Society, 73,381-392
- **R** Bayliss, A., Ramsey, C.B., van der Plicht, J. & Whittle, A., (2007), Bradshaw and Bayes: Towards a timetable for the Neolithic, Cambridge Archaeological Journal, 17(1),1-28
- **R** Blockley, S.P.E., Blaauw, M., Bronk Ramsey, C. & van der Plicht, J., (2007), Building and testing age models for radiocarbon dates in Lateglacial and Early Holocene sediments, Quaternary Science Reviews, 26,1915-1926
- R Mellars, P., Gravina, B & Bronk Ramsey, C., (2007), Confirmation of Neanderthal/modern human interstratification at the Chatelperronian type-site, Proceedings of the National Academy of Sciences of the United States of America, 104,3657-3662
- **R** Bronk Ramsey, C., Buck, C.E., Manning, S.W., Reimer, P. & van der Plicht, H., (2006), Developments in radiocarbon calibration for archaeology, Antiquity, 80,783-798

- R Higham, T.F.G., Bronk Ramsey, C., Karavanic, I., Smith, F.H & Trinkaus, E., (2006), Revised direct radiocarbon dating of the Vindija G1 Upper Paleolithic Neandertals, Proceedings of the National Academy of Sciences of the United States of America, 103(3),553-557
- **R** Higham, T.F.G., Jacobi, R.M & Bronk Ramsey, C., (2006), AMS radiocarbon dating of ancient bone using ultrafiltration, Radiocarbon, 48(2),179-195
- R Jacobi, R.M, Higham, T.F.G.& Bronk Ramsey, C., (2006), AMS radiocarbon dating of Middle and Upper Palaeolithic bone in the British Isles: improved reliability using ultrafiltration, Journal of Quaternerey Science, 21(5),557-573
- Manning, S, Bronk Ramsey, C, Kutschera, W, Higham, T, Kromer, B, Steier, P, Wild, E,
 2006, Chronology for the Aegean Late Bronze Age 1700-1400 B.C., Science, 312 (5773) 565
 569.
- **R** Gravina, B, Mellars, P and Bronk Ramsey, C, 2005, AMS radiocarbon dating of interstratified Neanderthal and early Modern human occupations at the Chatelperronian typesite, Nature, 438(7064) 51-56.
- **R** Bronk Ramsey, C, Manning, SW, Galimberti, M, 2004, Dating the volcanic eruption at Thera, Radiocarbon, 46 (1) 325-344.
- R Bayliss, A, Shepherd Popescu, E, Beavan-Athfield, N, Bronk Ramsey, C, Cook, GT, Locker, A, 2004, The potential significance of dietry offsets for the interpretation of radiocarbon dates: an archaeologically significant example from medieval Norwich, Journal of Archaeological Science, 31, 563-575.
- **R** Higham, T.F.G., Hedges, R.E.M., Anderson, A.J., Bronk Ramsey, C., Fankhauser, B., 2004, Problems Associated with the AMS Dating of Small Bone Samples: The Question of the Arrival of Polynesian Rats to New Zealand, Radiocarbon, 46(1), 2004, 207-218.
- R Hughen, Konrad A., Baillie, Mike G.L., Bard, Edouard, Beck, J Warren, Bertrand, Chanda J.H., Blackwell, Paul G., Buck, Caitlin E., Burr, George S., Cutler, Kirsten B., Damon, Paul E., Edwards, Richard L., Fairbanks, Richard G., Friedrich, Michael, Guilderson, Thomas P., Kromer, Bernd, McCormac, Gerry, Manning, Sturt, Bronk Ramsey, Christopher, Reimer, Paula J., Reimer, Ron W., Remmele, Sabine, Southon, John R., Stuiver, Minze, Talamo, Sahra, Taylor, F.W., van der Plicht, Johannes, Weyhenmeyer, Constanze E., 2004, Marine Marine Radiocarbon Age Calibration, 0–26 Cal Kyr BP, Radiocarbon, 46(3), 1059-1086.
- R Reimer, Paula J., Baillie, Mike G.L., Bard, Edouard, Bayliss, Alex, Beck, J Warren, Bertrand, Chanda J.H., Blackwell, Paul G., Buck, Caitlin E., Burr, George S., Cutler, Kirsten B., Damon, Paul E., Edwards, R Lawrence, Fairbanks, Richard G., Friedrich, Michael, Guilderson, Thomas P., Hogg, Alan G., Hughen, Konrad A., Kromer, Bernd, McCormac, Gerry, Manning, Sturt, Bronk Ramsey, Christopher, Reimer, Ron W., Remmele, Sabine, Southon, John R., Stuiver, Minze, Talamo, Sahra, Taylor, F.W., van der Plicht, Johannes, Weyhenmeyer, Constanze E., 2004, IntCal04 Terrestrial Radiocarbon Age Calibration, 0–26 Cal Kyr BP, Radiocarbon, 46(3), 1029-1058.

B. Other Refereed Contributions (Refereed Conference Presentations)

- **R** Hamilton, W.D., Bayliss, A., Menuge, A., Bronk Ramsey, C. & Cook, G., (2007), 'Rev Thomas Bayes: Get Ready to Wiggle' Bayesian modelling, radiocarbon wiggle-matching, and the North Wing of Baguley Hall, Vernacular Architecture, 38,87-97
- **R** Brock, F., Bronk Ramsey, C. & Higham, T.F.G., (2007), Quality assurance of ultrafiltered bone dating, Radiocarbon, 49(2),187-192.
- **R** Bronk Ramsey, C., Brenninkmeijer, C.A.M., Jöckel, P., Kjeldsen, H. & Masarik, J., (2007), Direct measurement of the radiocarbon production at altitude, Nuclear Instruments and Methods in Physics Research B, 259,558-564
- R Cuzange, M-T., Delqué-Kolic, E., Goszlar, T., Grootes, P.M., Higham, T., Kaltnecker, E., Nadeau, M.J., Oberlin, C., Paterne, M., van der Plicht, J., Bronk Ramsey, C., Valladas, H., Clottes, J. & Michel, J. & Genest, J.M, (2007), Radiocarbon intercomparison program for the Chauvet Cave, Radiocarbon, 49(2),339-47.
- **R** Bronk Ramsey, C, Higham, T, Leach, P, 2004, Towards high precision AMS: progress and limitations, Radiocarbon, 46 (1) 17-24.

- **R** Bronk Ramsey, C, Higham, T, Bowles, A, and Hedges, REM, 2004, Improvements to the pre-treatment of bone at Oxford, Radiocarbon, 46 (1) 155-164.
- **R** Bronk Ramsey, C., Ditchfield, P., Humm, M., 2004, Using a Gas Ion Source for Radiocarbon AMS and GC-AMS, Radiocarbon, 46(1), 25-32
- **R** Galimberti, M, Bronk Ramsey, C, Manning, SW, 2004, Wiggle-match dating of tree-ring sequences, Radiocarbon, 46 (2) 917-924.

C. Non-refereed Contributions

Artilces

Bronk Ramsey, C., (2006), New approaches to constructing age models: OxCal4, PAGES News, 14(3),14-15

Books

Bayliss, A., Cook, G., Bronk Ramsey, C., van der Plicht, J. & McCormac, G., (2008), Radiocarbon Dates - from samples funded by English Heritage under the Aggregates Levy Sustainability Fund 2004-7, English Heritage

Bayliss, A., Bronk Ramsey, C., Cook, G. & van der Plicht, J., (2007), Radiocarbon Dates from samples funded by English Heritage under the Aggregates Levy Sustainability Fund 2002-4, English Heritage

Bronk Ramsey, C. & Higham, T.F.G. (eds), (2007), - Proceedings of the 19th International 14C conference, Radiocarbon: 49(2)

Bayliss, A., Bronk Ramsey, C., Cook, G. & van der Plicht, J., (2007), Radiocarbon Dates from samples funded by English Heritage under the Aggregates Levy Sustainability Fund 2002-4, English Heritage

Higham T., Bronk Ramsey C. and Owen, C. (eds), 2004, Radiocarbon and Archaeology, Oxford University School of Archaeology Monograph, Oxford

2. Other Research Contributions

- Director, Oxford Radiocarbon Accelerator Unit, University of Oxford
- Editorial Board of *Radiocarbon* (international journal published by the University of Arizona)
- Editorial Board of *Quaternary Geochronology* (a new daughter journal of *Quaternary Science Reviews*, published by Elsevier)
- Member of the International Committee for Radiocarbon Calibration (IntCal)
- Author of the statistical package OxCal, widely used for the calibration and analysis of radiocarbon dates.

3. Most Significant Career Research Contributions

- R Bronk Ramsey, C., Dee, M., Rowland, J., Higham, T., Harris, S., Brock, F., Quiles, A., Wild, E., Marcus, E. & Shortland, A., (2010), Radiocarbon-Based Chronology for Dynastic Egypt, Science, 328,1554-1557.
 - A first attempt to provide a comprehensive, radiocarbon-based chronology for the dynastic period of Ancient Egypt.
- **R** Bronk Rasmey, C., Bayesian analysis of radiocarbon dates, (2009), Radiocarbon, 51(1), 337-360.
 - Summarizes the use of Bayesian analysis in the interpretation and modeling of radiocarbon dates (50th Anniversary volume of Radiocarbon)
- R Bronk Ramsey, C., (2008), Radiocarbon dating: revolutions in understanding,

Archaeometry, 50(2),249-275.

Review of developments in radiocarbon dating, in particular in relation to Archaeology (50th Anniversary volume of Archaeometry)

- **R** Bronk Ramsey, C., (2008), Deposition models for chronological records, Quaternary Science reviews, 27,42-60.
 - New approaches to using radiocarbon dates in sedimentary sequences
- R Bronk Ramsey, C., Buck, C.E., Manning, S.W., Reimer, P. & van der Plicht, H., (2006), Developments in radiocarbon calibration for archaeology, Antiquity, 80,783-798.

Paper covering the impact and limitations of radiocarbon dating for Archaeology.

4. Contributions to Training

I have supervised the following doctoral students:

| 2010- | Amber Hood: DPhil in Archaeological Science |
|-----------|--|
| 2008- | Sharen Lee: DPhil in Archaeological Science |
| 2007-2011 | Richard Staff: DPhil in Archaeological Science |
| 2005-2009 | Michael Dee: DPhil in Archaeological Science |
| 2001-2005 | Daniel Miles: DPhil in Archaeological Science (successfully completed in |
| | 4 years). |

I am currently Director of Graduate Studies for Archaeology and the University of Oxford (2008-2011).

Social Sciences and Humanities Research Council of Canada

Full name used during previous contact, if different from above

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| Name | | | | | | | | | |
| Family nam | ne | | | Giver | n name | | | Initials | Title |
| Rhode | | | | David | | | | | Professor |
| Citizensl | hip - Applio | cants a | and co-applicants must in | dicate | their citizenship status by checkin | g and an | swerin | g the applic | able questions. |
| Citizenship status | Cana | dian (| Permanent resident si (yyyy/mm/dd) | nce | Other (country) | | | | you applied for anent residency? |
| | | | | | UNITED STATES | | | _ OY | es No |
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| Birth year | Gender | | Permanent postal code in Canada (i.e. K2P1G4) | C | orrespondence language | 1 - | | s contact w blicant, asse | th SSHRC? essor, etc.) |
| 1956 | ○ F (| М | | | ● English | | | Yes | ● No |

| The foll | Contact Information The following information will help us to contact you more rapidly. Secondary information will not be released by SSHRC without your express consent. | | | | | | |
|--------------|--|-----------|-----------|----------------------|--------------|-------------|-----------|
| Primary | telepho | ne number | | Second | ary telep | hone number | |
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| 001 | 775 | 6737310 | | | | | |
| Primary | Primary fax number | | | Secondary fax number | | | |
| Country code | Area code | Number | Extension | Country code | Area code | Number | Extension |
| 001 | 7756 | | | | | | |
| Primary | Primary E-mail dave.rhode@dri.edu | | | | | | |
| Second | ary E-ma | ail | | | | | |

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Family name, Given name
Rhode, David

| Current Address Use only if you are not affiliated with a university. (If you are affiliated with a university, the department's mailing a wish to use another address, specify in Address. | department at a ddress will be u | a Canadian used.) If you | Correspondence Add Complete this section if you wish y to an address other than your curr | our correspond | ence to be sent |
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| Address Desert Research Institute | | | Address | | |
| 2215 Raggio Parkway | | | | | |
| | | | | | |
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| Family name, Given name |
|-------------------------|
| Rhode, David |

| Research Expertise (optiona |
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The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of Research

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

| Rank | Code | Area |
|------|------|--------------------------------|
| 1 | 214 | Global/Climate Change |
| 2 | 180 | Environment and Sustainability |
| 3 | | |

Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

| From | То |
|---|---|
| Year ——————————————————————————————————— | Year ——————————————————————————————————— |

Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

| Rank | Code | Region | | |
|------|------|---------------|--|--|
| 1 | 1000 | North America | | |
| 2 | 6100 | Central Asia | | |
| 3 | | | | |

Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

| Rank | Code | Countries | Prov./ State |
|------|------|---------------|-----------------|
| 1 | 1200 | UNITED STATES | |
| 2 | 6201 | CHINA | |
| 3 | | | |
| 4 | | | |
| 5 | | | |

Curriculum Vitae

Family name, Given name

| Rhode, David | |
|--------------|--|
|--------------|--|

| Language Pro | ficiency | | | | | | | |
|---|---------------------|-----------|--------------|-----------|----------|--------------|----------------------|-----------------------|
| Read English X French | Write X | Speak X | Comprehend a | aurally | Other la | nguages | | |
| Work Experience List the positions, academic and non-academic, you have held beginning with the current position and all previous positions in reverse chronological order, based on the start year. | | | | | | | | |
| Current position | | | | | | | | Start date (yyyy/mm) |
| Researcher | | | | | | | | 1989/3 |
| Org. code | Full organization r | name | | | | | | |
| 1 | Desert Resear | rch Insti | tute | | | | | |
| Department/Division | name | | | | | | | |
| Earth and Ecos | ystem Science | es | | | | | | |
| Position type |) Tenured | ● No | n-tenure | Employmen | t status | Full-time | O Part-ti | me |
| \subset | Tenure-track | ○ No | n-academic | | | Non-salaried | Leave | of absence |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) |
| Org. code | Full organization r | name | | | | | | |
| Department/Division | name | | | | | | | |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) |
| Org. code | Full organization r | name | | | | | | |
| Department/division ı | name | | | | | | | |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) |
| Org. code | Full organization r | name | | | | | | |
| Department/Division | name | | | | | | | |

| Family n | ame, Given name |
|----------|-----------------|
| Rhode | , David |

| Academic Ba | | | | |
|----------------------|--|----------------------|---------------------------------|------------------------|
| List up to 5 degrees | , beginning with the highest degree first and all others in reverse chronologic | cal order, bas | sed on the start | date. |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | (yyyy/mm) |
| Doctorate | District the second of the sec | 1983/01 | D:4 COLIDO | 1987/12 |
| Disc. code | Discipline | | Did SSHRC su you to get this | |
| 60299 | Archaeology | | Yes | ● No |
| Org. code | Organization | | | |
| 9981101 | University of Washington | | | |
| Country UNITED | STATES | | | |
| Degree type | Degree name | Start date | Expected date | Awarded date |
| Mastarla | | (yyyy/mm) | (yyyy/mm) | (yyyy/mm) 1002/01 |
| Master's Disc. code | Discipline | 1979/09 | Did SSHRC su | 1983/01 |
| Disc. code | Discipline | | you to get this | |
| 60200 | Anthropology | | Yes | ● No |
| Org. code | Organization | | | |
| 9981101 | University of Washington | | | |
| Country UNITED | STATES | | | |
| Degree type | Degree name | Start date | Expected date | Awarded date |
| BA Gen. | | (yyyy/mm) 1975/09 | (yyyy/mm) | (yyyy/mm) 1978/12 |
| Disc. code | Discipline | | Did SSHRC su you to get this | |
| 80600 | Biological Sciences | | Yes | ● No |
| Org. code | Organization | | | |
| 9983102 | University of California, Davis | | | |
| Country UNITED | STATES | | | |
| Degree type | Degree name | Start date | Expected date | Awarded date |
| BA Gen. | | (yyyy/mm) 1975/09 | (yyyy/mm) | (yyyy/mm) 1978/12 |
| Disc. code | Discipline | 17/3/07 | Did SSHRC su | pport enable |
| | | | you to get this | _ |
| 60200 | Anthropology | | Yes | ● No |
| Org. code | Organization | | | |
| 9983102 | University of California, Davis | | | |
| Country UNITED | O STATES | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) |
| | | ()))),) | (3333,) | (333), |
| Disc. code | Discipline | | Did SSHRC su | |
| | | | you to get this | <u> </u> |
| | | | Yes | ○ No |
| Org. code | Organization | | | |
| Country | | | | |

| Family name, Given name | |
|-------------------------|--|
| Rhode, David | |

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| \mathbf{c} | | | | а | |

List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

| Category | Name | Source or Country | Duration (Months) | Value / Year awarded |
|----------|------|-------------------|----------------------|-------------------------|
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| Research | Expertise |

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

archaeology; paleoecology; archaeobotany; western North America; prehistory

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

| Rank | Code | Discipline | If Other, specify |
|------|-------|---|-------------------|
| 1 | 60410 | Environmental Archaeology | |
| 2 | 60424 | Paleoanthropology, Ethnoarchaeology, Paleoethnology | |
| 3 | 60414 | Hunters and Gatherers | |
| 4 | 80500 | Earth Sciences | |
| 5 | 80600 | Biological Sciences | |

| Family name, Given name |
|-------------------------|
| Rhode, David |

| Funded | Research | · | | | | |
|---|---|------------------------|---------------------|---------|------------------------|--|
| | grants or contracts you have received from SSHF d. If you are not the applicant (principal investiga | | chronological ord | er, bas | ed on the | |
| Org. code | Full name of funding organization US Army | | Year awarded (yyyy) | To | otal amount (CAN\$) | |
| 1 | OS Affily | 2011 | \$ | 800,000 | | |
| Role | Applicant | | Completion statu | ıs 🔲 | Complete | |
| Project title | Archaeological Services for US A | rmy | | | | |
| Applicant's f | amily name | Applicant's given name | | | Initials | |
| Org. code | Full name of funding organization | | Year awarded | To | otal amount (CAN\$) | |
| 1 | US Army | | 2010 | \$ | 800,000 | |
| Role | Applicant | | Completion statu | ıs 🗶 | Complete | |
| Project title | Archaeological Services | | | | | |
| Applicant's fa | amily name | Applicant's given name | | | Initials | |
| Org. code | Full name of funding organization | | Year awarded (yyyy) | To | otal amount (CAN\$) | |
| 1 | US National Science Foundation | | 2008 | \$ | 200,000 | |
| Role | Co-applicant | | Completion statu | ıs 🔲 | Complete | |
| Project title | Prehistory of Tibetan Plateau | | | | | |
| Applicant's f | amily name | Applicant's given name | | | Initials | |
| Brantingl | nam | Jeff | f | | | |
| Org. code Full name of funding organization | | | Year awarded (yyyy) | To | otal amount (CAN\$) | |
| Role | | | Completion statu | us 🔲 | Complete | |
| Project title | Project title | | | | | |
| Applicant's f | amily name | Applicant's given name | | | Initials | |

1. Research Contributions over the Last Six Years

A. Refereed Contributions

- Goebel, T, B Hockett, KD Adams, D Rhode, and K Graf (2011). Climate, Environment, and Humans in North America's Great Basin During the Younger Dryas, 12,900-11,600 Calendar Years Ago. *Quaternary International* 242:479-501.
- Fowler, CS, and D Rhode (2011) Great Basin Plants. In *The Subsistence Economies of Indigenous North American Societies*, edited by BD Smith, pp. 233-270. Smithsonian Institution Scholarly Press, Washington, DC, in press.
- Benson, LV, SP Lund, JP Smoot, DE Rhode, RJ Spencer, KL Verosub, LA Louderback, CA Johnson, RO Rye, RM Negrini (2011). The Rise and Fall of Lake Bonneville between 45 and 10.5 ka. *Quaternary International* 235(1-2):57-69.
- Brantingham, PJ, D Rhode, and DB Madsen (2010). Archaeology Augments Tibet's Genetic History. Letter, *Science* 329, September 17 2010, p. 1467.
- Rhode, D, H Ma, DB Madsen, PJ Brantingham, SL Forman, and JW Olsen (2010). Paleoenvironmental and Archaeological Investigations at Qinghai Lake, Western China: Geomorphic and Chronometric Evidence of Lake Level History. *Quaternary International* 218:29-44.
- Louderback, LA, and D Rhode (2009). 15,000 Years of Vegetation Change in the Bonneville Basin: The Blue Lake Pollen Record. *Quaternary Science Reviews* 28:308-326.
- Rhode, D (2008). Dietary plant use by middle Holocene foragers in the Bonneville Basin, western North America. *Before Farming* [online version] 2008/3 article 2.
- Madsen, DB, H Ma, D Rhode, PJ Brantingham, and SL Forman (2008). Age Constraints on the Late Quaternary Evolution of Qinghai Lake, Tibetan Plateau. *Quaternary Research* 69(2):316-325.
- Rhode, D (2008). Development of Paleoenvironmental Research Methods. In *The Great Basin: People and Place in Ancient Times*, edited by CS Fowler and DD Fowler. SAR Press, Santa Fe.
- Adams, KD, T Goebel, K Graf, GM Smith, AJ Camp, RW Briggs, and D Rhode (2008). Late Pleistocene and Early Holocene Lake-Level Fluctuations in the Lahontan Basin, Nevada: Implications for the Distribution of Archaeological Sites. *Geoarchaeology* 23(5):608-643.
- Goebel, T, KE Graf, BS Hockett, and D Rhode (2007). The Paleoindian occupations at Bonneville Estates Rockshelter, Danger Cave, and Smith Creek Cave (Eastern Great Basin, U.S.A.): Interpreting their radiocarbon chronologies. Pp. 147-161 in *On Shelter's Ledge: Histories, Theories and Methods of Rockshelter Research*, edited by M Kornfeld, S Vasil'ev, and L Motti. BAR International Series 2007, Archaeopress, Oxford UK.
- Rhode, D, and LA Louderback (2007). Dietary Plant Use in the Bonneville Basin during the Terminal Pleistocene-Early Holocene Transition. Pp. 231-247 in *Paleoindian or Paleoarchaic? Great Basin Human Ecology at the Pleistocene-Holocene Transition*, edited by KE Graf and DN Schmitt. University of Utah Press, Salt Lake City.
- Rhode, D, H Zhang, DB Madsen, X Gao, PJ Brantingham, H Ma, and JW Olsen (2007). Epipaleolithic/Early Neolithic Settlements at Qinghai Lake, western China. *Journal of Archaeological Science* 34(4):600-612.
- Rhode, D, DB Madsen, PJ Brantingham, and T Dargye (2007). Yak, yak dung, and prehistoric human habitation of the Tibetan Plateau. Pp. 205-224 in *Late Quaternary Climate Change and Human Adaptation in Arid China*, edited by DB Madsen, F-H Chen, and X Gao. Developments in Quaternary Science volume 9, Elsevier, Amsterdam.
- Brantingham, PJ, X Gao, JW Olsen, H Ma, D Rhode, H Zhang, and DB Madsen (2007). A short chronology for the peopling of the Tibetan Plateau. Pp. 129-150 in *Late Quaternary Climate*

- *Change and Human Adaptation in Arid China*, edited by DB Madsen, F-H Chen, and X Gao. Developments in Quaternary Science volume 9, Elsevier, Amsterdam.
- Rhode, D, DB Madsen, and KT Jones (2006). Antiquity of Early Holocene Small-Seed Consumption and Processing at Danger Cave. *Antiquity* 80 (308):328-339.
- Fowler, CS, and D Rhode (2006). Great Basin Plants. Pp. 331-350 in *Handbook of North America Indians, volume 3: Environment, Origins, and Population*, edited by D Ubelaker. Smithsonian Institution, Washington DC.
- Madsen, DB, H Ma, PJ Brantingham, X Gao, D Rhode, H Zhang, and JW Olsen (2006). The Late Upper Paleolithic Occupation of the Northern Tibetan Plateau Margin. *Journal of Archaeological Science* 33:1433-1444.

B. Other Refereed Contributions (Refereed Conference Presentations)

- Rhode, D, D Schmitt, D Page, J Feathers, and R Quist, 2011. "Starch Grains, Luminescence Dates, and Bunny Bones from FCR Features at 42To567, Dugway Proving Ground, Utah," by. Poster presented at the Society for American Archaeology Annual Meeting, Sacramento, CA.
- Rhode, D, 2011. "How Did Small-Scale Societies Respond to Environmental Change in the Bonneville Basin, Western North America?" Poster presented at the "Past Climate, Landscapes, and Civilization" Chapman Conference, Santa Fe, NM.
- Rhode, D, DB Madsen, PJ Brantingham, and C Perrault, 2010. "Early Human Occupation on the Northeast Tibetan Plateau." Poster presented at the American Geophysical Union Annual Meeting, San Francisco, CA.
- Rhode, D, 2010. "Environmental Change and Human Occupation during the Pleistocene-Holocene Transition in the Great Basin." Invited Plenary presentation, American Quaternary Association Biennial Meeting, Laramie, WY.
- Rhode, D, 2010. "Early Holocene Subsistence Change in the Bonneville Basin." Society for American Archaeology Annual Meeting, St. Louis, MO.
- Rhode, D, H Ma, DB Madsen, PJ Brantingham, SL Forman, JW Olsen, and Z Lai, 2008. "Paleoenvironmental Implications of Shoreline Chronology of Qinghai Lake, Northeast Qinghai-Tibet Plateau." Poster presented at the American Geophysical Union Fall Meeting, San Francisco, CA.
- Louderback, LA, BS Hockett, D Rhode, KE Graf, and T Goebel, 2008. "Climate Change and Human Adaptation in the Bonneville Basin: The Blue Lake Pollen Record and Archaeology of Bonneville Estates Rockshelter." Society for American Archaeology Annual Meeting, Vancouver, BC.
- Rhode, D, 2008. "Middle Holocene Plant Use in the Bonneville Basin." Society for American Archaeology Annual Meeting, Vancouver, BC.
- Rhode, D, H Ma, DB Madsen, PJ Brantingham, and SL Forman, 2007. "Paleoenvironmental and Archaeological Investigations at Qinghai Lake, western China: Geomorphic and Chronometric Evidence of Lake Level History." 17th Congress of the International Union for Quaternary Research (INQUA), Cairns, Australia.
- Rhode, D, 2007. "Late Prehistoric Subsistence Change at High Elevations in the White Mountains, Eastern California: the Archaeobotanical Record." Poster presented at the Society for American Archaeology Annual Meeting, Austin, TX.
- Louderback, LA, and D Rhode, 2007. "Holocene Vegetation Change and Human Plant Use in the Northwest Bonneville Basin, Nevada/Utah." Poster presented at the Society for American Archaeology Annual Meeting, Austin, TX.

C. Non-refereed Contributions

Rhode, D, 2010. "Food Values and Return Rates for Limber Pine (*Pinus flexilis*)." Poster presented at the Great Basin Anthropological Conference, Layton, Utah.

- Rhode, D, 2010. "Ancient People of the Desert West: Change and Adaptation in the Bonneville Basin." Invited Lecture, Time Travelers XVII Lecture Series, Royal Alberta Museum, Edmonton, Alberta, Canada.
- Rhode, D, 2010. "Early Peopling of the Northeast Tibetan Plateau." White Mountain Research Station Lecture Series, Bishop, CA.
- Rhode, D, 2010. "Paleoenvironmental Lessons for Sustainable Land Use at Lake Qinghai, Western China." Southern Methodist University Center for the Environment Inaugural Lecture, Dallas, TX.
- Rhode, D, 2009. "Environmental Change and Human Adaptations in the Bonneville Basin, ca. 12,000-8000 Years Ago." Invited Lecture, US DOE Nevada Test Site Community Environmental Monitoring Program Annual Meeting, Ely NV.
- Rhode, D, 2009. "Paleolithic Hunters on the Northeast Tibetan Plateau." Anthropological Lecture Series, University of Washington, Seattle, WA.
- Rhode, D, 2011. Integrated Cultural Resources Management Plan for US Army Yuma Proving Ground, Yuma AZ. Submitted to Environmental Directorate, US Army Yuma Proving Ground.
- Madsen, DB, D Rhode, LA Louderback, and M Metcalf, 2009. "Packrats, Pollen, and Pine II: The Flat Tops Pollen Records and Implications for Regional Millennial-Scale Climate Cycles." By Rocky Mountains Anthropological Conference, Gunnison, CO.
- Rhode, D, LA Louderback, DB Madsen, and M Metcalf, 2009. "Packrats, Pollen, and Pine I: Midden Evidence for Vegetation History in Northwest Colorado." Rocky Mountains Anthropological Conference, Gunnison, CO.
- Rhode, D, and LA Louderback, 2009. "Holocene Vegetation History in Northwest Colorado and Southwest Wyoming: Preliminary Results from Packrat Middens and Pollen Cores." PACLIM Conference, Asilomar, CA, 2009.
- Rhode, D, 2008. Human Remains from Camels Back Cave (42To392), Dugway Proving Ground, Tooele County, Utah: Description and Assessment of Cultural Affiliation. Submitted to US Army Dugway Proving Grounds, UT.
- Rhode, D, 2008. "Late Pleistocene-Holocene Vegetation Change in the Great Basin: Tools for the Paleo-Forester." Society of American Foresters Annual Meeting, Reno, NV.
- Rhode, D, 2006. "Prehistoric Dietary Plant Use in the Lead Mine Hills: the Record from Hearths and Other Features at Bonneville Estates Rockshelter." Great Basin Anthropological Conference, Las Vegas, NV.
- Craven, SL, and D Rhode, 2006. "Palynological Analysis of Sediments from the Bonneville Estates Rockshelter, Elko County, Nevada." Great Basin Anthropological Conference, Las Vegas, NV.
- Louderback, LA, and D Rhode, 2006. "Latest Pleistocene-Holocene Vegetation Change at Blue Lake, western Bonneville Basin, Utah." Great Basin Anthropological Conference, Las Vegas, NV.
- Goebel, T, BS Hockett, KE Graf, and D Rhode, 2006. "More on the Putative "Pre-Clovis" Human Occupation at Bonneville Estates Rockshelter." Great Basin Anthropological Conference, Las Vegas, NV.
- Goebel, T, BS Hockett, KE Graf, and D Rhode, 2006. "An Update on the Paleoindian Archaeology of Bonneville Estates Rockshelter, Eastern Nevada." Great Basin Anthropological Conference, Las Vegas, NV.

D. Forthcoming Contributions

- Rhode, D, in press. Introduction. In *Meetings at the Margins: Prehistoric Cultural Interactions in the Intermountain West.* University of Utah Press, Salt Lake City.
- Rhode, D, editor, in press. *Meetings at the Margins: Prehistoric Cultural Interactions in the Intermountain West.* University of Utah Press, Salt Lake City.

Rhode, D, 2011. Constraints on Long-Distance Movement of Plant Foods in the Great Basin. Chapter 11 (pp. 221-241) in *Perspectives on Prehistoric Trade and Exchange in California and the Great Basin*, edited by RE Hughes. University of Utah Press, Salt Lake City.

2. Other Research Contributions

Organizer, "Beyond the Fringe: Archaeological Perspectives on Interactions between Great Basin Peoples and their Neighbors." Symposium organized for the Great Basin Anthropological Conference, Portland, OR, 2008.

Co-organizer (with Ted Goebel), "Prehistory and Paleoecology of the Lead Mine Hills, Nevada-Utah." Great Basin Anthropological Conference, Las Vegas, NV, 2006.

Technical Advisory Committee, Sustainable Development in Arid Lands Program, International Arid Lands Consortium, 2006-2010

Range Creek Advisory Group, University of Utah, 2007-2009

Co-Investigator, Tibetan Paleolithic Project, Qinghai Province, China (2001-2011), with P. Jeffrey Brantingham (UCLA) and David Madsen (U Texas)

3. Contributions to Training over the Last Six Years

Student Involvement in Research: Although my position as Research Professor with the Desert Research Institute is a non-teaching position, over the past 20 years I have involved many students from the University of Nevada at Reno, University of Nevada at Las Vegas, the University of Washington, and other programs in my archaeological and paleoenvironmental research, both in the field and the lab. In addition, I have served on PhD and MA level graduate committees at all of these institutions in the departments of Anthropology and Hydrologic Sciences.

PhD

Khaldoon Al-Qudah (UNR-Hydrologic Sciences, 2004) Daron Duke (UNR-Anthropology, 2011) Jill Gardner (UNLV-Anthropology, 2006) Greg Haynes (UNR-Anthropology, 2004) Lisbeth Louderback (UW-Anthropology, current) Kelly Graf (UNR-Anthropology, 2008) Teresa Wriston (UNR-Anthropology, current) Brian Wygal (UNR-Anthropology, 2009)

MA

Cassandra Albush (UNR-Anthropology, 2010)
Dayna Giambastiani (UNR-Anthropology, 2007)
Kelly Graf (UNLV-Anthropology, 2001)
Jonathan Grant (UNR-Anthropology, current)
Lisbeth Louderback (UNR-Anthropology, 2007)
David Page (UNR-Anthropology, 2008)
Anitra Sapula (MSc, Forensic Archaeology, University of Bradford, UK, 2010)
Tony Taylor (UNR-Anthropology, current)

Social Sciences and Humanities Research Council of Canada Conseil de recherches en sciences humaines du Canada

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| | | | | | 133497 | 60620 | |
| Identifi | Identification | | | | | | |
| Only the information in the Name section will be made available to selection committee members and external assessors. Citizenship and Statistical and Administrative Information will be used by SSHRC for administrative and statistical purposes only. Filling out the statistical and Administrative Information section is optional. | | | | | | | |
| Name | | | | | | | |
| Family nam | ne | | Give | n name | | Initials | Title |
| RICE | | | Sally | | A | Dr. | |
| Citizensl | hip - Applicants | and co-applicants must in | dicate | e their citizenship status by checkin | g and answeri | ng the applica | able questions. |
| Citizenship status | Canadian | Permanent resident si (yyyy/mm/dd) | ince | Other (country) | | | ou applied for nent residency? |
| | | | | es No | | | |
| Statistical and Administrative Information | | | | | | | |
| Birth year | Gender | Permanent postal code in Canada (i.e. K2P1G4) | | forrespondence language | | us contact wite | |

| Conta | Contact Information | | | | | | | | |
|---------------------------------------|---|-----------|-----------|----------------------|--------------|-------------|-----------|--|--|
| | The following information will help us to contact you more rapidly. Secondary information will not be released by SSHRC without your express consent. | | | | | | | | |
| Primary | telepho | ne number | | Second | ary telep | hone number | | | |
| Country code | Area code | Number | Extension | Country code | Area code | Number | Extension | | |
| | 780 | 492-0809 | | | 780 | 433-4293 | | | |
| Primary | fax num | ber | | Secondary fax number | | | | | |
| Country code | Area code | Number | Extension | Country code | Area code | Number | Extension | | |
| | 780 | 492-0806 | | | | | | | |
| Primary E-mail sally.rice@ualberta.ca | | | | | | | | | |
| Second | Secondary E-mail | | | | | | | | |

○ No

Yes

T6G2E7

Full name used during previous contact, if different from above

1956

Sally A. Rice

Do not photocopy this page.

Family name, Given name
RICE, Sally

| Current Address Use only if you are not affiliated with a university. (If you are affiliated with a university, the department's mailing a wish to use another address, specify i Address. | Correspondence Address Complete this section if you wish your correspondence to be sent to an address other than your current address. | | | | | |
|--|--|-----------------|--|---------|-----------------|-----------------|
| Address | | | Address | | | |
| City/Municipality | Prov. / State | Postal/Zip code | City/Municipality | | rov. / I | Postal/Zip code |
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| Temporary Address If providing a temporary address, pho ensure that you enter the effective date. | | /or E-mail, | Permanent Address | in CANA | DA | |
| Address | | | Address | | | |
| City/Municipality | Prov./ State | | City/Municipality | | Prov./ State | Postal/Zip code |
| Country | | | Country | 1 | | |
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| Temporary E-mail | | | | | | |

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| Family name, Given name |
|-------------------------|
| RICE, Sally |

| Research Expertise (optiona |
|-----------------------------|
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The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of Research

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

| Rank | Code | Area |
|------|------|---------------------------------------|
| 1 | 342 | Post-Secondary Education and Research |
| 2 | 240 | Indigenous peoples |
| 3 | 310 | Northern development |

Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

| From | То |
|-------|-------|
| Year | Year |
| BC AD | BC AD |
| O | O O |
| O O | O O |

Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

| III appli | in applicable, indicate and rank up to 6 geographical regions develor by your research interests. Euphocate criticis are not permitted. | | | | | |
|-----------|---|-----------------|--|--|--|--|
| Rank | Code | Region | | | | |
| 1 | 1140 | Northern Canada | | | | |
| 2 | 1130 | Western Canada | | | | |
| 3 | 1000 | North America | | | | |

Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

| Rank | Code | Countries | Prov./ State |
|------|------|---------------|-----------------|
| 1 | 1100 | CANADA | AB |
| 2 | 1100 | CANADA | NT |
| 3 | 1200 | UNITED STATES | NM |
| 4 | 1200 | UNITED STATES | AZ |
| 5 | 1200 | UNITED STATES | AK |

Conseil de recherches en sciences humaines du Canada

Curriculum Vitae

Family name, Given name

RICE, Sally

| Language Proficiency | | | | | | | | |
|--|-------------------|------------|-------------------|----------------|-------------|--|-------------------------|-----------------------|
| Read | Write | Speak | Comprehend a | iurally | Other land | _{juages} ıline, Tsuut'ina, l | Dogrih S | |
| English X | X X | X | X | | | Navajo, Cree, G | _ | |
| French | | X | X | | | 3 / / | , 1 | |
| Work Experient List the positions, ac chronological order, | ademic and non- | | ou have held begi | nning with the | current pos | sition and all previous p | oositions in re | everse |
| Current position | | | | | | | | Start date |
| Full Professor | | | | | | | | (yyyy/mm) 2004 |
| Org. code | Full organization | name | | | | | | |
| 1480111 | University of | of Alberta | | | | | | |
| Department/Division | name | | | | | | | |
| Linguistics | | | | | | | | |
| Position type | Tenured | ○ No | n-tenure | Employmen | t status | Full-time | Part-tir | ne |
| | Tenure-track | ○ No | n-academic | | | Non-salaried | Leave | of absence |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) |
| Associate Prof | essor | | | | | | 1995 | 2004 |
| Org. code | Full organization | name | | | | | | |
| 1480111 | University | of Alberta | ı | | | | | |
| Department/Division | name | | | | | | | |
| Linguistics | | | | | | | | |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) |
| Assistant Profe | essor | | | | | | 1990 | 1995 |
| Org. code | Full organization | name | | | | | | |
| 1480111 | University | of Alberta | ı | | | | | |
| Department/division | name | | | | | | | |
| Linguistics | | | | | | | | |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) |
| Lecturer | | | | | | | 1989 | 1990 |
| Org. code | Full organization | name | | | | | | |
| 1480111 | University | of Alberta | ı | | | | | |
| Department/Division | name | | | | | | | |
| Linguistics | | | | | | | | |
| | | | | | | | | |

| Family name, Given name | |
|-------------------------|--|
| RICE, Sally | |

| Work Experie | ence (cont'd) | | |
|--------------------------|---|-------------------------|-----------------------|
| Position | | Start date (yyyy/mm) | End date (yyyy/mm) |
| Instructor | | 1988 | 1989 |
| Org. code | Full organization name | 1,00 | |
| 1 | Smith Clinic for Academic/Motor Therapy | | |
| Department/Division | name | | |
| Assessment and | d Tutoring | | |
| Position | | Start date | End date |
| | | (yyyy/mm) | (yyyy/mm) |
| Org. code | Full organization name | | |
| | | | |
| Department/Division | name | | |
| | | | |
| Position | | Start date | End date |
| | | (yyyy/mm) | (yyyy/mm) |
| Org. code | Full organization name | | |
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| Department/Division name | | | |
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| Position Start dat | | | |
| | | (yyyy/mm) | (yyyy/mm) |
| Org. code | Full organization name | | |
| | | | |
| Department/Division | name | | |
| | | | |
| Position | | Start date (yyyy/mm) | End date (yyyy/mm) |
| | | (уууу/ппп) | (уууу/ППП) |
| Org. code | Full organization name | | |
| | | | |
| Department/Division | name | | |
| | | | |
| | | | |

| Family name, Given name |
|-------------------------|
| RICE, Sally |

| Academic Background | | | | | | |
|---|-------------------------------------|-------------------------|---------------------------------|---------------------------|--|--|
| List up to 5 degrees, beginning with the highest degree first and all others in reverse chronological order, based on the start date. | | | | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) | | |
| Doctorate | | 1984/09 | | 1987/12 | | |
| Disc. code | Discipline | | Did SSHRC su you to get this | | | |
| 62400 | Linguistics | | Yes | No | | |
| Org. code | Organization | | | | | |
| 9983105 | University of California, San Diego | | | | | |
| Country UNITED | STATES | | | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date | | |
| Master's | | 1981/09 | (уууу/ППП) | (yyyy/mm) 1984/06 | | |
| Disc. code | Discipline | 1901/09 | Did SSHRC su | | | |
| | | | you to get this | degree? | | |
| 62400 | Linguistics | | Yes | ● No | | |
| Org. code | Organization | | | | | |
| 9983105 | University of California, San Diego | | | | | |
| Country UNITED | STATES | | | | | |
| Degree type | Degree name | Start date | Expected date | Awarded date | | |
| BA Gen. | | (yyyy/mm) 1974/09 | (yyyy/mm) | (yyyy/mm) 1978/05 | | |
| Disc. code | Discipline | | Did SSHRC su you to get this | | | |
| 52200 | Literature, French | | Yes | ● No | | |
| Org. code | Organization | | | | | |
| 9974102 | Colorado College | | | | | |
| Country UNITED | STATES | | | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) | | |
| Disc. code | Discipline | | Did SSHRC su you to get this | | | |
| | | | Yes | No | | |
| Org. code | Organization | | | | | |
| Country | | | | | | |
| Degree type | Degree name | Start date | Expected date | Awarded date | | |
| | | (yyyy/mm) | (yyyy/mm) | (yyyy/mm) | | |
| Disc. code | Discipline | | Did SSHRC su you to get this | pport enable degree? | | |
| | | | Yes | No | | |
| Org. code | Organization | | | | | |
| Country | | | | | | |

Family name, Given name
RICE, Sally

Credentials

List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

| | • | • | | |
|-----------------------------|--|-------------------|----------------------|-------------------|
| Category | Name | Source or Country | Duration (Months) | |
| Academic Prize | McCalla Research Professorship, U of A | CANADA | 12 | \$0 2008 |
| Academic Prize | Landrex Distinguished Professorship, Arts, U of A | CANADA | 60 | \$250,000 2007 |
| Professional Designation | President, CSDLA (North America) | UNITED STATES | | 2005 |
| Professional Designation | Governing Board, ICLC (International) | CANADA | | 2001 |
| Graduate Scholarship | University of California Dissertation Scholarship | UNITED STATES | | 1987 |
| Fellowship | University of California Regents Fellowship | UNITED STATES | | 1981 |

Research Expertise

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

lexical semantics; field linguistics; Athapaskan languages: indigenous language education; cognitive linguistics; corpus linguistics

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

| Rank | Code | Discipline | If Other, specify |
|------|-------|-------------------------|---------------------------------------|
| 1 | 62430 | Semantics | |
| 2 | 62404 | Comparative Linguistics | |
| 3 | 62422 | Morphology | |
| 4 | 62406 | Computers and Language | |
| 5 | 62499 | Other Linguistics | Language Documentation/Revitalization |

| Family name, Given name | |
|-------------------------|--|
| RICE Sally | |

| Funded Research | | | | | |
|---|---|-------------------------------|-------------------|-------------------------|------------|
| List up to 8 grants or contracts you have received from SSHRC or other sources. List them in reverse chronological order, based on the year awarded. If you are not the applicant (principal investigator), specify that persons' name. | | | | | |
| Org. code | code Full name of funding organization | | | Total amount (CAN\$) | |
| 3010325 | Social Sciences and Humanities R | Research Council of Canada | 2010 | | 52,000 |
| Role | Collaborator | | Completion status | s X | Complete |
| Project title | Apachean Origins: Exploring the Origins, Utah | Canadian Heritage of A.D. 13t | h Century De | ne at | |
| Applicant's f | amily name | Applicant's given name | | | Initials |
| Ives | | John | | | W |
| Org. code | Full name of funding organization | | Year awarded | | tal amount |
| _ | National Science Foundation (US. | A) | (уууу) | | (CAN\$) |
| 1 | | | 2009 | \$2 | 217,572 |
| Role | Co-applicant | | Completion status | s 🔲 | Complete |
| Project title | An Interactive Speech Atlas of De | ne-Speaking Communities in | the Mackenzie | e Bas | in |
| Applicant's f | amily name | Applicant's given name | | | Initials |
| McDono | ugh | Joyce | | | M |
| Org. code | Full name of funding organization | | Year awarded | | tal amount |
| | Social Sciences and Humanities R | Research Council of Canada | (yyyy) | | (CAN\$) |
| 3010325 | | | 2009 | \$ | 105,194 |
| Role | Collaborator | | Completion status | s 🔲 | Complete |
| Project title Bare Nouns in Dene Suline Texts | | | | | |
| Applicant's f | amily name | Applicant's given name | | | Initials |
| Wilhelm Andrea | | Andrea | | | |
| Org. code | Full name of funding organization | | Year awarded | | tal amount |
| 4 | Canadian Heritage | | (yyyy) | (CAN\$) | |
| 1 | | 2007 | \$474,600 | | |
| Role Applicant | | | Completion status | s X | Complete |
| Project title Community Linguist Certificate (CILLDI) | | | | | |
| Applicant's family name | | Applicant's given name | | | Initials |

| Family name, Given name | |
|-------------------------|--|
| RICE, Sally | |

| Funded | Research (cont'd) | | | | | |
|--|---|-------------------------------|---------------------|---------------------------------------|------------------------|--|
| | | | | | | |
| Org. code | g. code Full name of funding organization Social Sciences and Humanities Research Council of Canada | | Year awarded (yyyy) | Total amount (CAN\$) | | |
| 3010325 | | | 2007 | \$ | 590,824 | |
| Role | Co-applicant | | Completion statu | ıs X | Complete | |
| Project title | ICE Canada and English Collostru | ctions | | | | |
| | | | | | | |
| Applicant's fa | amily name | Applicant's given name | | | Initials | |
| Newman | | John | | | | |
| Org. code | Full name of funding organization | | Year awarded (yyyy) | To | otal amount (CAN\$) | |
| 1 | University of Alberta Faculty of A | Arts | 2007 | \$ | 250,000 | |
| Role | Applicant | | Completion statu | | Complete | |
| Project title | Research portion of Landrex Distin | nguished Professorship, Facul | <u> </u> | <u> </u> | | |
| | 1 | g | ., | | | |
| Applicant's f | amily name | Applicant's given name | Initial | | Initials | |
| | | | | | | |
| Org. code | Full name of funding organization |) 1 | Year awarded (yyyy) | To | otal amount (CAN\$) | |
| 3010325 | Social Sciences and Humanities Research Council of Canada 0325 | | 2003 | \$393,007 | | |
| Role | Role Applicant Completion sta | | Completion statu | ıs X | Complete | |
| Project title The Daghida Project: Language Research and Revitalization in a First Nations Community [CURA Completion Grant] | | | | | | |
| Applicant's f | omily name | Applicant's given name | | | Initials | |
| Applicant's f | amily name | Applicant's given hame | | | IIIIIIais | |
| Org. code | Full name of funding organization | | Year awarded | To | tal amount (CAN\$) | |
| 3010325 | Social Sciences and Humanities Research Council of Canada | | (уууу) | | | |
| Role | | | 2000 | \$572,836 status X Complete | | |
| Project title The Daghida Project: Language Research and Revitalization in a First Nations Community | | | | | | |
| [CURA] | | | | | | |
| Applicant's family name Applicant's given name | | | Initials | | | |
| | | | | 1 | | |

1. Research Contributions over the Last Six Years (* = SSHRC-funded research)

A. Refereed Contributions

- Newman, J., H. Baayen, **S. Rice** (eds.). In press. *Corpus-Based Studies in Language Use, Language Learning, and Language Documentation*. Amsterdam: Rodopi. [30%]
- * Rice, S. In press. "Our language is very literal: Figurative expression in Dene Sųliné [Athapaskan]. In A. Idstrom, E. Piirainen, & K. Wilson (eds.), *Endangered Metaphors*. Amsterdam/Philadelphia: John Benjamins.
 - **Rice**, S. 2011. Applied field linguistics: Delivering linguistic training to speakers of endangered languages. *Language and Education* 25: 319-338.
 - **Rice, S.** & J. Newman (eds.). 2010. Experimental and Empirical Methods in the Study of Conceptual Structure, Discourse, and Language. CSLI/U of Chicago Press. [50%]
 - **Rice, S.** & J. Newman. 2010. Converging methodologies. In S. Rice & J. Newman (eds.), *Experimental and Empirical Methods in the Study of Conceptual Structure*, *Discourse, and Language*, xv-xxx. Stanford: CSLI/U of Chicago Press. [90%]
 - Ives, J. W., S. Rice, & E. Vajda. 2010. Dene-Yeniseian and processes of deep change in kin terminologies. *Anthropological Papers of the University of Alaska (APUA), Vol. 6 (1-2)*: 223-256. Fairbanks: UAF Press. [15%]
- * **Rice, S.** 2009. Athapaskan eating and drinking verbs and constructions. In J. Newman (ed.), *The Linguistics of Eating and Drinking*, 109-152. Amsterdam/Philadelphia: John Benjamins.
 - Newman, J. & S. Rice. 2008. Asymmetry in English multi-verb sequences: A corpusbased approach. In B. Lewandowska-Tomaszczyk (ed.), *Asymmetric Events*, 3-23. Amsterdam/Philadelphia: John Benjamins. [50%]
 - **Rice, S.** & K. Kabata. 2007. Crosslinguistic grammaticalization patterns of the ALLATIVE. *Linguistic Typology* 11: 453-516. [75%]
 - Cuyckens, H., D. Sandra, & S. Rice. 2006. Towards an empirical lexical semantics. In V. Evans, B. Bergen, & J. Zinken (eds.), *The Cognitive Linguistics Reader*. London: Equinox. [30%]
 - Newman, J, & S. Rice. 2006. Transitivity schemas of English EAT and DRINK in the BNC. In S. Th. Gries & A. Stefanowitsch (eds.), *Corpora in Cognitive Linguistics: Corpus-based Approaches to Syntax and Lexis*, 225-260. Amsterdam/Philadelphia: John Benjamins. [50%]

B. Other Refereed Contributions (Refereed Conference Presentations)

- **Rice, S**. 2011. Corporal incorporation and extension in Dene Sułiné (Athapaskan) lexicalization. *The Body in Language: Lexicon, Metaphor, Grammar and Culture*. 21-22 October 2011. University of Warsaw; Poland.
- Thompson, C., C. Cox, & **S. Rice**. 2011. The grammaticalization of Dene demonstratives: Taking a second look at some "grey wolf particles" in Dene texts. *2011 Dene Languages Conference*. 27-28 June 2011. Whitehorse, YK; Canada. [75%]
- **Rice, S.** & C. Cox. 2011. Participant referencing and event structuring through semicognate deixis markers in several Northern Dene (Athapaskan) languages. *AFLiCo IV*. 24-27 May 2011. University of Lyon; France. [75%]
- Abdulrahim, D., J. Newman, & S. Rice. 2011. Multifactorial methods for exploring

- contextual factors in the usage of Modern Standard Arabic COME verbs. *Workshop on Arabic Corpus Linguistics*. 11-12 April 2011. Lancaster University; UK. [20%]
- Abdulrahim, D., J. Newman, & S. Rice. 2011. COME verbs in Modern Standard Arabic: A corpus-based constructionist account of *?ata*, *?aža*, *qadima* and *hadara*. *25*th

 Arabic Linguistics Symposium. 4-6 March 2011. University of Arizona; USA. [30%]
- **Rice, S.** & J. Wilmot. 2011. Delivering linguistic training to speakers of endangered languages: CILLDI and the Community Linguist Certificate Program. 2nd *International Conference on Language Documentation and Conservation*. 11-13

 February 2011. University of Hawai'i at Mānoa; USA. [80%]
- Abdulrahim, D. & **S. Rice**. 2010. Orthographically motivated spatial biases in the conceptual representation of events: Evidence from Arabic and English. Poster presentation at the *Linguistic Evidence 2010 Conference*. 11-13 February 2010. University of Tubingen; Germany. [50%]
- Snoek, C. & S. Rice. 2010. Event metonymies in Northern Athapaskan. Platform presentation at the 2010 *Dene Languages Conference*. 26 June 2010. University of Oregon; USA. [50%]
- D. Abdulrahim & S. Rice. 2009. Evidence for cross-linguistic spatial biases in the conceptual representation of events. *Canadian Linguistics Association* (ACL/CLA). 23-25 May 2009. University of Ottawa; Canada. [50%]
- C. Snoek & S. Rice. 2009. Lexicalization patterns in body part and effluvia terms in Athapaskan. *Workshop on American Indigenous Languages* (WAIL). 8-9 May 2009. University of California, Santa Barbara; USA. [50%]
- J. McDonough, J. Lachler, & S. Rice. 2009. An interactive speech atlas of the Dene languages of the Mackenzie Basin. *Conference on Endangered Languages and Cultures of Native America* (CELCNA). 27-29 March 2009. U of Utah; USA. [30%]
- S. Rice, B. Tucker, C. Cox, & B. Starlight. 2009. Linguistic training in an endangered language community: The University of Alberta's Community Linguist Certificate program and the Tsuu T'ina Nation. *Conference on Endangered Languages and Cultures of Native America* (CELCNA). 27-29 March 2009. U of Utah; USA. [50%]
- J. McDonough, J. Lachler, & S. Rice. 2009. Aspiration as phonation: an acoustic analysis of aspirated affricates in the Dene languages. *SSILA Annual Meeting*. January 9-11. San Francisco, CA; USA. [20%]
- * Miwa, K., G. Libben, R. H. Baayen, & **S. Rice**. 2008. Lexical activation in picture comparison: A cross-linguistic approach to the relation between language and thought in the mental lexicon. 6th International Conference of Cognitive Science. 27-29 July 2008. Yonsei University; Korea. [20%]
 - **Rice, S.** 2008. Received and not-so-received wisdom about Athapaskan linguistics for archaeologists. *Society for American Archaeology* 73rd *Annual Meeting*. 26-30 March 2008. Vancouver, BC; Canada.
 - **Rice, S. &** J. Newman. 2008. Beyond the lemma: Inflection-specific constructions in English. *American Association of Corpus Linguistics*. 13-15 March 2008. Brigham Young University; USA. [50%]
 - **Rice, S.** & S. Borgwaldt. 2007. A cross-linguistic experimental study of the spatial semantics of verbs: How writing system directionality and metaphor impinge on event structure. 10th International Cognitive Linguistics Conference. 15-20 July 2007. Jagiellonian University; Poland. [50%]

- **Rice, S.** & S. Borgwaldt. 2006. Where do spatial associations for non-spatial verbs come from and how language-specific are they? 8th Conceptual Structure, Discourse, and Language Conference. 3-5 November 2006. UC, San Diego; USA. [50%]
- Newman, J. & S. Rice. 2006. English adjectival inflection: A *radical* Radical Construction Grammar approach. 8th Conceptual Structure, Discourse, and Language Conference. 3-5 November 2006. UC, San Diego; USA. [50%]
- Ives, J.W. & S. Rice. 2006. Correspondences in archaeological, genetic, and linguistic evidence for Apachean history. Poster presentation at the *Languages and Genes Conference*. 8-10 September 2006. UC, Santa Barbara; USA. [30%]
- Borgwaldt, S. & S. Rice. 2006. *Push* goes right & *admire* goes up: Where spatial associations for English verbs come from. *Cognitio*. 19 Aug 2006. UQAM; Canada. [50%]
- * Thiering, M. & S. Rice. 2006. Language on the land: Video-based elicitation materials for Dene languages. *Dene Languages Conference*. 15-16 June 2006. Yellowknife, NWT; Canada. [50%]

C. Non-refereed Contributions (Invited Plenary Addresses or Workshop Presentations)

- **Rice, S.** 2011. Challenges to studying the "social-interaction" engine" in endangered language communities: Notes from the Canadian field. *Interactional Foundations of Language Workshop*; Steve Levinson and Nick Enfield, organizers. 2011 LSA Institute. 16-17 July 2011. CU Boulder; USA.
- **Rice, S.** 2010. Turning evidence: Field linguistics in the 21st century. Keynote address at the 2010 *Workshop in American Indian Linguistics* (WAIL). 30 April-1 May 2010. UC, Santa Barbara; USA.
- **Rice, S.** 2010. Mother tongues and Mother Earth: How the extinction of small languages threatens our planet. 2009-2010 Dimic Institute for Comparative and Cross-Cultural Studies Lecture Series, *Green Thoughts in Green Shades*. 17 March 2010. U Alberta.
- * **Rice, S.** 2006. Radical Construction Grammar meets the Dene verb. Keynote address at the *High Desert Linguistics Society Conference (HDLS-7)*. 9-11 November 2006. University of New Mexico; USA.

D. Works Under Review or in Progress

- * Rice, S. Dene verb stem polysemies.
 - Rice, S. 2011. Review of Mandeville, Francois. 2009. *This is What They Say, A Story Cycle dictated in Northern Alberta in 1928*, edited & translated from Chipewyan by Ron Scollon. Seattle: University of Washington Press. Paperback, 286 pp. *IJAL*
 - Rice, S. & J. Newman. Inflectional islands.
- * Rice, S. & V. Wood. *Dene Yatié*. [pedagogical grammar]
- * Rice, S. (ed.). Dene-English Bilingual Dictionary [community-based dictionary].

2. Other Research Contributions

Conference/Workshop Organization

- 2009 American Association of Corpus Linguistics (AACL), University of Alberta, 8-11 October 2009 [with J. Newman & H. Baayen]
- 2009 We All Have Holes in Our Stories: Dene Migration Workshop at the Tsuu T'ina Nation and University of Alberta Calgary Centre, 25-27 Sept 2009 [with B. Starlight & J. Ives] 2008 Dene Languages Conference, Cold Lake First Nation, 3-5 July 2008 [with V. Wood]

Major Teaching and Governance Responsibilities

Interim Director, 2010, *The Canadian Indigenous Languages & Literacy Development Institute* Co-director, 2001-2009, *The Canadian Indigenous Languages & Literacy Development Institute* Through my teaching and mentorship in this annual summer school, I have taught over 100 speakers of some 20 aboriginal languages of Canada in introductory and advanced linguistics courses. In 2007, with funding from Canadian Heritage, I developed the Community Linguist Certificate, a 6-course accredited program that trains speakers of Aboriginal languages in the basics of linguistic analysis, language documentation technologies, and language policy and planning so they can be effective in language revitalization efforts in their home communities.

3. Most Significant Research Contributions

- 1. Sandra, D. & S. Rice. 1995. Network analyses of prepositional meaning: Mirroring whose mind—the linguist's or the language user's? *Cognitive Linguistics* 6:89-130. [50%]
- 2. Rice, S. 1987. Towards a cognitive model of transitivity. UCSD doctoral dissertation.
- 3. **Rice, S.** 1988. Unlikely lexical entries. *Proceedings of the 14th Annual Meeting of the Berkeley Linguistics Society*, 202-212.
- 4. **Rice, S.** 1996. Prepositional prototypes. In R. Dirven & M. Pütz (eds.), *The Construal of Space in Language and Thought*, 135-165. Berlin/New York: Mouton de Gruyter.
- 5. **Rice, S. &** K. Kabata. 2007. Crosslinguistic grammaticalization patterns of the ALLATIVE. *Linguistic Typology* 11: 453-516. [75%]
- 4. Career Interruptions and Special Circumstances None
- 5. Contributions to Training over the Last Six Years

PhD

Phillips, A., in progress (topic: Northern Pwo Karen morphosyntax)
Inglis, D., in progress (topic: Tai Khamti morphosyntax) [co-supervisor with J. Newman]]
Dowbor, D., in progress (topic: English corpus linguistics) [co-supervisor with J. Newman]
Snoek, C., in progress (topic: Athapaskan lexicalization patterns in body part terminology)
Abdulrahim, D., in progress (topic: Corpus-based analysis of the semantics of basic motion verbs in Modern Standard Arabic) [co-supervisor with J. Newman]

Yin, H., 2010. Serial verb constructions in Mandarin Chinese [U of A Killam Award winner [co-supervisor with J. Newman]

* Thiering, M., 2007. *The construction of topological space* [currently Research Fellow, MPI for the History of Science, Berlin]

MSc

Thunder, D., in progress (topic: Cree morphosyntax)

Braun, E., in progress (topic: Japanese comparative constructions)

* Holden, J., 2006, Higher order predicates in Dene Sułiné Ivanova, A., 2006, Impersonal constructions in Russian

BA, Honors

Cassidy Foxcroft, in progress (topic: The effects of polity and language policy on Inuit language health)

* Koji Miwa, 2006, Morphology & picture relatedness: A cross-linguistic experimental study [co-supervisor G. Libben]

Social Sciences and Humanities Research Council of Canada

Full name used during previous contact, if different from above

Conseil de recherches en sciences humaines du Canada

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| | | | | Internal use | CID (if know | n) | |
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| Identifi | cation | | | | | • | |
| Only the information in the Name section will be made available to selection committee members and external assessors. Citizenship and Statistical and Administrative Information will be used by SSHRC for administrative and statistical purposes only. Filling out the statistical and Administrative Information section is optional. | | | | | | | |
| Name | | | | | | | |
| Family name | | | Given name | | | Initials | Title |
| Shapiro | | | | Beth | | | Dr. |
| Citizensl | nip - Applicants | and co-applicants must in | dicate | e their citizenship status by checkin | g and answerir | ng the applica | ble questions. |
| Citizenship status | Canadian | Permanent resident si (yyyy/mm/dd) | ince | Other (country) | | | rou applied for nent residency? |
| <u>UNITED STATES</u> | | | | | s No | | |
| Statistica | al and Admin | istrative Informatio | n | | | | |
| Birth year | Gender | Permanent postal code in Canada (i.e. K2P1G4) | | Forrespondence language | | us contact wit plicant, asses | |

● English ← French

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|-----------------|---|-----------|-----------|--------------|----------------------|-------------|-----------|--|--|
| Conta | Contact Information | | | | | | | | |
| | The following information will help us to contact you more rapidly. Secondary information will not be released by SSHRC without your express consent. | | | | | | | | |
| Primary | telepho | ne number | | Second | ary telep | hone number | | | |
| Country code | Area code | Number | Extension | Country code | Area code | Number | Extension | | |
| 1 | 814 | 8639178 | | | | | | | |
| Primary | fax num | nber | | Second | Secondary fax number | | | | |
| Country code | Area code | Number | Extension | Country code | Area code | Number | Extension | | |
| Primary | Primary E-mail beth.shapiro@gmail.com | | | | | | | | |
| Second | Secondary E-mail | | | | | | | | |

No

Yes

1976

Do not photocopy this page.

Family name, Given name
Shapiro, Beth

| Current Address Use only if you are not affiliated with a university. (If you are affiliated with a university, the department's mailing awish to use another address, specify in Address. | department at a ddress will be u | a Canadian used.) If you | Correspondence Address Complete this section if you wish your correspondence to be sent to an address other than your current address. | | | |
|--|----------------------------------|-----------------------------|--|------------------|-----------------|--|
| Address 326 Mueller Lab | | | Address 326 Mueller Lab | | | |
| City/Municipality University Park Prov. / Postal/Zip code State PA 16802 | | | City/Municipality University Park | Prov. / State | Postal/Zip code | |
| Country UNITED STATES | | | Country UNITED STATES | | | |
| Temporary Address If providing a temporary address, phone number and/or E-mail, ensure that you enter the effective dates. | | | Permanent Address in CANADA | | | |
| Address | | | Address | | | |
| City/Municipality Prov./ State | | | City/Municipality | Prov./ State | | |
| Country | | | Country | | | |
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| Temporary E-mail | | | | | | |

Social Sciences and Humanities Research Council of Canada Conseil de recherches en sciences humaines du Canada

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Family name, Given name
Shapiro, Beth

| Research Expertise (optional | Research | Expertise (| (optional) |
|------------------------------|----------|-------------|------------|
|------------------------------|----------|-------------|------------|

The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of Research

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

| Rank | Code | Area |
|------|------|--------------------------------|
| 1 | 104 | Biotechnology |
| 2 | 180 | Environment and Sustainability |
| 3 | | |

Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

| From | То |
|-------|-------|
| Year | Year |
| BC AD | BC AD |
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Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

| - 1 | | |
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| Rank | Code | Region |
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| 1 | | |
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Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

| Rank | Code | Countries | Prov./ State |
|------|------|-----------|-----------------|
| 1 | | | |
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Curriculum Vitae

Family name, Given name
Shapiro, Beth

| Language Pro | oficiency | | | | | <u> </u> | | |
|--|-------------------|----------------------|--------------------|----------------|----------------------|---------------------------|------------------------------|----------------------------|
| Read English French | Write X | Speak X | Comprehend a | urally | Other lan Spanisl | | | |
| Work Experient List the positions, acceptance of the control of th | cademic and non- | academic, yort year. | ou have held begii | nning with the | current po | sition and all previous ເ | positions in re | everse |
| Current position | | | | | | | | Start date (yyyy/mm) |
| Assistant Profe | essor | | | | | | | 2007/9 |
| Org. code | Full organization | n name | | | | | | |
| 9933103 | Pennsylvan | ia State U | niversity | | | | | |
| Department/Division | name | | | | | | | |
| Biology | | | | | | | | |
| Position type | Tenured | ○ No | on-tenure | Employmen | t status | Full-time | Part-tii | me |
| | Tenure-track | ○ No | on-academic | | | Non-salaried | Leave | of absence |
| Position Director, Anci | ent Riomoleo | cules Cen | tro | | | | Start date (yyyy/mm) 2003/10 | End date (yyyy/mm) 2007/10 |
| Org. code | Full organization | | <u> </u> | | | | 2003/10 | |
| 9121131 | University | | 1 | | | | | |
| Department/Division | | <u>or owner</u> | | | | | | |
| Department of | | | | | | | | |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) |
| Org. code | Full organization | n name | | | | | | |
| Department/division | name | | | | | | | |
| Position | | | | | | | Start date (yyyy/mm) | End date (yyyy/mm) |
| Org. code | Full organization | name | | | | | | |
| Department/Division | name | | | | | | | |

Personal information will be stored in the Personal Information Bank for the appropriate program.

| ĺ | Family name, Given name |
|---|-------------------------|
| | Shapiro, Beth |

| Academic B | | | | |
|----------------------|---|----------------------|---------------------------------|---------------------------|
| List up to 5 degrees | , beginning with the highest degree first and all others in reverse chronologic | cal order, bas | sed on the start | date. |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | (yyyy/mm) |
| Doctorate | | 1999/10 | | 2003/05 |
| Disc. code | Discipline | | Did SSHRC su you to get this | |
| 80600 | Biological Sciences | | Yes | ● No |
| Org. code | Organization | | | |
| 9121131 | University of Oxford | | | |
| Country UNITED | KINGDOM | | | |
| Degree type | Degree name | Start date | Expected date | Awarded date |
| Mastarla | | (yyyy/mm) 1997/08 | (yyyy/mm) | (yyyy/mm) 1999/05 |
| Master's Disc. code | Discipline | 1997/08 | Did SSHRC su | |
| Disc. code | Discipline | | you to get this | |
| 80600 | Biological Sciences | | Yes | ● No |
| Org. code | Organization | | | |
| 9958101 | University of Georgia | | | |
| Country UNITED | STATES | | | |
| Degree type | Degree name | Start date | Expected date | Awarded date |
| BA Hon. | | (yyyy/mm) 1994/08 | (yyyy/mm) | (yyyy/mm) 1999/05 |
| Disc. code | Discipline | | Did SSHRC su | pport enable |
| 80600 | Biological Sciences | | you to get this | degree? |
| | | | <u> </u> | O 110 |
| Org. code 9958101 | Organization | | | |
| | University of Georgia | | | |
| Country UNITED | STATES | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) |
| Disc. code | Discipline | | Did SSHRC su you to get this | |
| | | | Yes | No |
| Org. code | Organization | | | |
| Country | | | | |
| Degree type | Degree name | Start date | Expected date | Awarded date |
| | | (yyyy/mm) | (yyyy/mm) | (yyyy/mm) |
| Disc. code | Discipline | | Did SSHRC su | |
| | | | you to get this | degree? |
| Org. code | Organization | | | $\overline{}$ |
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| Country | | | | |

| Family name, Given name | |
|-------------------------|--|
| Shapiro, Beth | |

Credentials

List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

| Category | Name | Source or Country | Duration (Months) | Value / Year awarded |
|----------------|---------------------------|-------------------|----------------------|-------------------------|
| Academic Prize | MacArthur Fellow | UNITED STATES | | |
| | | | | 2009 |
| Academic Prize | Searle Scholar | UNITED STATES | | \$0 |
| | | | | 2009 |
| Fellowship | Fellow, Newton Math Inst, | UNITED KINGDOM | | \$0 |
| | Cambridge | | | 2007 |
| Fellowship | Royal Society University | UNITED KINGDOM | | \$0 |
| | Research Fellow | | | 2006 |
| Fellowship | Wellcome Trust Fellowship | UNITED KINGDOM | | \$0 |
| | | | | 2004 |
| | | | | |
| | | | | |

Research Expertise

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

ancient DNA, molecular evolution, phylogenetics, population genetics

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

| Rank | Code | Discipline | If Other, specify |
|------|-------|---|-------------------|
| 1 | 80600 | Biological Sciences | |
| 2 | 60424 | Paleoanthropology, Ethnoarchaeology, Paleoethnology | |
| 3 | 80500 | Earth Sciences | |
| 4 | | | |
| 5 | | | |

| Family name, Given name | |
|-------------------------|--|
| Shapiro Reth | |

| Funded | Research | <u>, </u> | | | | | |
|---|-----------------------------------|--|------------------------|------------------------|-----|--|--|
| List up to 8 grants or contracts you have received from SSHRC or other sources. List them in reverse chronological order, based on the year awarded. If you are not the applicant (principal investigator), specify that persons' name. | | | | | | | |
| Org. code | Full name of funding organization | | Year awarded | Total amour | nt | | |
| 1 | National Science Foundation | 2009 | (CAN\$) \$285,000 | 0 | | | |
| 1 Pole | | | | | | | |
| Role | Applicant | | Completion status | | | | |
| Project title Collaborative Research: Understanding the role of environmental change on the long-term population dynamics of one surviving and two extinct arctic mammals | | | | | | | |
| Applicant's f | amily name | Applicant's given name | | Initials | | | |
| Org. code | Full name of funding organization | | Year awarded | Total amour | nt | | |
| | NASA Astrobiology Institute | | (yyyy) 2 000 | (CAN\$) | 20 | | |
| 1 | | | 2008 | \$6,500,00 |)() | | |
| Role | Co-applicant | | Completion status | S Complete | Э | | |
| Project title PSARCIII: Signatures of life from Earth and beyond | | | | | | | |
| Applicant's f | amily name | Applicant's given name | | Initials | | | |
| House | | Christopher | | | | | |
| Org. code Full name of funding organization | | | Year awarded (yyyy) | Total amour (CAN\$) | nt | | |
| Role | | | Completion status | S Complete | е | | |
| Project title | | | | | | | |
| Applicant's f | amily name | Applicant's given name | | Initials | | | |
| Org. code Full name of funding organization | | | Year awarded (yyyy) | Total amour (CAN\$) | nt | | |
| Role | | | Completion status | S Complete | е | | |
| Project title | | | | | | | |
| Applicant's f | amily name | Applicant's given name | | Initials | | | |

Personal information will be stored in the Personal Information Bank for the appropriate program.

1. Research Contributions over the Last Six Years (selected)

A. Refereed Contributions

- Edwards CJE, Suchard MA, Lemey P, Welch JJ, Barnes I, Fulton TL, 11 additional authors, Shapiro B. Ancient hybridization and a recent Irish origin for the modern polar bear matriline. Current Biology 21: 1-8 (2011).
- Lippold S, Knapp M, Kuznetsova T, Leonard JA, Benecke N, Ludwig A, Rasmussen M, Weinstock J, Willerslev E, Shapiro B, Hofreiter M. Discovery of lost diversity of paternal horse lineages using ancient DNA. Nature Comm. 2:450 (2011).
- Workman C, Dalen L, Vartanyan S, Shapiro B, Kosintev P, Sher A, Gotherstrom A, Barnes I. Population-level genotyping of coat colour polymorphism in woolly mammoth (Mammuthus primigenius). Quat. Sci. Rev. 30: 2304-2308 (2011).
- Ho SYW, Lanfear R, Phillips MJ, Barnes I, Thomas JA, Kolokotronis S-O, Shapiro B. Bayesian estimation of substitution rates from ancient DNA sequences with low information content. Syst. Biol. 60: 366-375 (2011).
- Ho SYW, Shapiro B. Skyline-plot methods for estimating demographic history from nucleotide sequences Mol. Ecol. Res. 11: 423-434 (2011).
- Harrison GL, Lemey P, Hurles M, Moyes C, Horn S, Pryor J, Malani J, Supuri M, Masta A, Teriboriki B, Toatu T, Penny D, Rambaut A, Shapiro B. Genomic analysis of Hepatitis B Virus reveals antigen state and genotype as source of evolutionary rate variation. Viruses 3: 83-101 (2011).
- Shapiro B, Ho SYW, Drummond AJ, Suchard MA, Pybus O, Rambaut A. A Bayesian phylogenetic method to estimate unknown sequence ages. Mol. Biol. Evol. 28: 879-887 (2011).
- Firth C, Kitchen A, Shapiro B, Suchard MA, Holmes EC, Rambaut A. Using time-structured data to estimate evolutionary rates of double-stranded DNA viruses. Mol. Biol. Evol. 27: 2038-2051 (2010).
- Shapiro B, Hofreiter M. The analysis of ancient human genomes: using next generation sequencing, 20-fold coverage of the genome of a 4,000-year-old human from Greenland has been obtained. Bioessays 32: 388-391 (2010).
- Stack JC, Welch D, Ferrari MJ, Shapiro B, Grenfell BT. Protocols for sampling viral sequences to study epidemic dynamics. J. Roy. Soc. Interface 7: 1119-1127 (2010).
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- Kuhn TS, McFarlane K, Groves P, Moers AO, Shapiro B. Modern and ancient DNA reveal recent partial replacement of caribou in the southwest Yukon. Mol. Ecol. 19: 1312-1318 (2010).
- Haile J, Larson G, Owens K, Dobney K, Shapiro B. Ancient DNA typing of Archaeological Pig Remains Corroborates Historical Records. J. Arch. Sci. 37:174-177 (2010).
- Edwards CJ, Magee DA, Park SD, McGettigan PA, Lohan AJ, Murphy A, Finlay EK, Shapiro B,

- Chamberlain AT, Richards MB, Bradley DG, Loftus BJ, Machugh DE. A complete mitochondrial genome sequence from a mesolithic wild aurochs (Bos primigenius). PLoS One 5:e9255 (2010).
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- Collins MJ, Penkman KEH, Rohalnd N, Shapiro B, Dobberstein RC, Rotz-Timme A, Hofretier M. Is amino acid racemization a useful tool for screening for ancient DNA in bone? Proc. Roy. Soc. B 276: 2971-2977 (2009).
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- Ho SYW, Saarma U, Barnett R, Haile J, Shapiro B. The effect of inappropriate calibration in molecular ecological studies: three case studies PLoS ONE 3: e1615 (2008).
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- lions originated from North Africa, Contrib. Zool. 77: 7-16 (2008).
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- Ho SYW, Shapiro B, Phillips MJ, Cooper A, Drummond AJ. Evidence for time dependency of molecular rate estimates. Sys. Biol. 56: 515-522 (2007).
- Barnes I, Shapiro B, Kuznetsova T, Sher A, Guthrie D, Lister A, Thomas MG. Genetic structure and extinction of the woolly mammoth. Curr. Biol. 17: 1072-1075 (2007).
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- Lemey P. Kosakovsky-Pond SL, Drummond A, Pybus O, Shapiro B, Barroso H, Taveira N, Rambaut A. Synonymous substitution rates predict HIV disease progression as a result of underlying replication dynamics. PLoS Comp. Biol 3:e29 (2007).
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- Poinar HN, Schwartz C, Qi J, Shapiro B, MacPhee RD, Buiges B, Tikhonov A, Huson D, Tonsho L, Auch A, Rampp M, Miller W, Schuster SC. Metagenomics to paleo-genomics: large scale sequencing of mammoth DNA. Science 311: 392-394 (2006).

D. Forthcoming Contributions

Shapiro B. Reconstructing the past: Ancient DNA. Princeton Guide to Evolution. Losos, J. Ed. Princeton University Press. (In press).

- Shapiro B, Hofreiter M (Eds). Ancient DNA. Methods in Molecular Biology. Humana Press. (in press).
- Lorenzen ED, Nogues-Bravo D, Orlando L, Weinstock J, Binladen J, Marske KA, 52 additional authors, Shapiro B, Rahbek C, Willerslev E. Individualistic species responses to climate and humans determine Late Quaternary megafaunal extinction and survival. Nature (in press).
- Higham T, Compton T, Stringer C, Jacobi R, Shapiro B, Trinkaus E, Chandler B, Gröning F, Collins C, Hillson S, O'Higgins P, Fagan M. The earliest evidence for anatomically modern humans in Europe. Nature (in press).
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- Letts B, Fulton TL, Stiller M, Andrews T, MacKay G, Popkp R, Shapiro B. Ancient DNA reveals genetic continuity in woodland caribou of the Central Mackenzie Mountains, Northwest Territories, Canada. Arctic (in press).
- Orlando L, Ginolhac A, Raghavan M, Vilstrup J, Rasmussen M, Magnussen K, Steinmann K, Kapranov P, Thompson JF, Shapiro B, Zazula G, Froese D, Hofreiter M, Al-Rasheid KAS, Mundy J, Gilbert MTP, Willerslev E. Single-molecule ancient DNA sequencing of a Pleistocene horse bone. Genome Research (in press).
- Fulton TL, Wagner SM, Fisher C, Shapiro B. Nuclear DNA from the extinct passenger pigeon (*Ectopistes migratorius*) confirms its phylogenetic placement within the Columbinae. Annals of Anatomy (in press).

2. Other Research Contributions

Associate Editor, Molecular Biology and Evolution Scientific Advisory Board, Museum of Beringia.

3. Most Significant Career Research Contributions

- Shapiro B, Drummond AJ, Rambaut A, Wilson MC, Matheus P, Sher AV, Pybus OG, et al. Rise and fall of the Beringian steppe bison. Science 306: 1561-1565 (2004).
- Drummond AJ, Pybus OG, Shapiro B, Rambaut A. Bayesian coalescent inference of past population dynamics from molecular sequences. Mol. Biol. Evol. 22:1185-1192 (2005).
- Barnes I, Matheus P, Shapiro B, Jensen D, Cooper A. Dynamics of mammal population extinctions in eastern Beringia during the last glaciation. Science 295: 2267-2270 (2002).
- Rambaut A, Drummond AJ, Ho SYW Shapiro B. Accommodating the effect of ancient DNA damage on inferences of demographic histories. Mol. Biol. Evol. 26: 245-248 (2009).

5. Contributions to Training over the Last Six Years PhD.

Current PhD students: Stack, Conrad; Korzow-Richter, Kristine; Kuhn, Tyler; Kistler, Logan. Letts, Brandon. PhD, Pennsylvania State University. 2010.

Haile, James. DPhil, Oxford University, 2007,

Harrison, Gabrielle. DPhil, Oxford University, 2007,

Social Sciences and Humanities Research Council of Canada

Full name used during previous contact, if different from above

Conseil de recherches en sciences humaines du Canada

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| Identifi | dentification | | | | | | | | |
| • | | | | able to selection committee member | | | • | | |
| | | e Information will be used on section is optional. | by SS | SHRC for administrative and statistic | cal purposes or | nly. Filling ou | t the statistical | | |
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| Name | | | | | | ı | 1 | | |
| Family nam | ne | | Give | n name | | Initials | Title | | |
| Supernant | | | Kisha | | M | Dr. | | | |
| Citizensl | hip - Applicants | and co-applicants must in | dicate | e their citizenship status by checkin | g and answerin | g the applica | able questions. | | |
| Citizenship status | Canadian | Permanent resident si (yyyy/mm/dd) | ince | Other (country) | | | ou applied for nent residency? | | |
| | | | | | | _ \(\) Ye | es ONo | | |
| Statistical and Administrative Information | | | | | | | | | |
| Birth year | Gender | Permanent postal code in Canada (i.e. K2P1G4) | | orrespondence language | II | is contact wit plicant, asse | | | |
| 1980 | ●F ○M | | | ♠ English | | Yes | ∩ No | | |

| Conta | Contact Information | | | | | | | | |
|-----------------|---|---------------|----------------|-----------------|--------------|--------------|-----------|--|--|
| | The following information will help us to contact you more rapidly. Secondary information will not be released by SSHRC without your express consent. | | | | | | | | |
| Primary | telepho | ne number | | Second | ary telep | ohone number | | | |
| Country code | Area code | Number | Extension | Country code | Area code | Number | Extension | | |
| | 780 | 695-9915 | | | 780 | 492-7345 | | | |
| Primary | fax num | ber | | Second | ary fax r | number | | | |
| Country code | Area code | Number | Extension | Country code | Area code | Number | Extension | | |
| Primary | / E-mail | kisha.superna | nt@ualberta.ca | • | | | | | |
| Second | Secondary E-mail kisha.supernant@gmail.com | | | | | | | | |

Do not photocopy this page.

Family name, Given name
Supernant, Kisha

| Current Address | | | Correspondence Address | | | |
|---|-------------------------------------|-----------------------------|---|------------------|-----------------|--|
| Use only if you are not affiliated with a university. (If you are affiliated with a university, the department's mailing acwish to use another address, specify in Address. | department at a ddress will be u | a Canadian used.) If you | Complete this section if you wish your cor to an address other than your current add | | nce to be sent | |
| Address | | | Address | | | |
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| City/Municipality | Prov. / State | Postal/Zip code | City/Municipality | Prov. / State | Postal/Zip code | |
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| Temporary Address If providing a temporary address, phoensure that you enter the effective date. | | l/or E-mail, | Permanent Address in CA | NADA | | |
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| City/Municipality | Prov./ State | | City/Municipality | Prov./ State | | |
| Country | | | Country CANADA | | | |
| Start date End date (yyyy/mm/dd) (yyyy/mm/dd) | | | Temporary telephone/fax number Country Area Number code code | Extension | n | |
| Temporary E-mail | | | | | | |

Conseil de recherches en sciences humaines du Canada

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Family name, Given name
Supernant, Kisha

| Research Expertise (optic | onal) | |
|---------------------------|-------|--|
|---------------------------|-------|--|

The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of Research

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

| Rank | Code | Area |
|------|------|-------------------------|
| 1 | 240 | Indigenous peoples |
| 2 | 190 | Ethics |
| 3 | 320 | Politics and government |

Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

| From | То |
|-----------------|---|
| Year BC AD ○ ○ | Year ——————————————————————————————————— |

Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

| " app. | in applicable, inclosed and rain up to a goographical regions develously your resolution interests. | | | | |
|--------|---|----------------|--|--|--|
| Rank | Code | Region | | | |
| 1 | 1130 | Western Canada | | | |
| 2 | 1000 | North America | | | |
| 3 | | | | | |

Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

| Rank | Code | Countries | Prov./ State |
|------|------|---------------|-----------------|
| 1 | 1100 | CANADA | |
| 2 | 1200 | UNITED STATES | |
| 3 | | | |
| 4 | | | |
| 5 | | | |

Conseil de recherches en sciences humaines du Canada

Curriculum Vitae

Family name, Given name
Supernant, Kisha

| | 1 ' | | | | | |
|---|--|--|--|--|--|--|
| Language Proficiency | | | | | | |
| Read Write Speak Comprehend aurally English X X X X French | ther languages | | | | | |
| Work Experience List the positions, academic and non-academic, you have held beginning with the cur chronological order, based on the start year. | rrent position and all previous positions in reverse | | | | | |
| Current position | Start date (yyyy/mm) | | | | | |
| Assistant Professor | 2010/7 | | | | | |
| Org. code Full organization name | | | | | | |
| 1480111 University of Alberta | | | | | | |
| Department/Division name | | | | | | |
| Anthropology | | | | | | |
| Position type | atus Part-time | | | | | |
| ● Tenure-track Non-academic | Non-salaried Leave of absence | | | | | |
| Position | Start date (yyyy/mm) End date (yyyy/mm) | | | | | |
| Research Assistant | 2010/1 2010/7 | | | | | |
| Org. code Full organization name | | | | | | |
| 1590111 The University of British Columbia | | | | | | |
| Department/Division name | | | | | | |
| Anthropology and Sociology | | | | | | |
| Position | Start date (yyyy/mm) End date (yyyy/mm) | | | | | |
| Researcher | 2008/8 2010/4 | | | | | |
| Org. code Full organization name | | | | | | |
| 1 Indian and Northern Affairs Canada | | | | | | |
| Department/division name | | | | | | |
| Indian Residential School Commission | | | | | | |
| Position | Start date (yyyy/mm) End date (yyyy/mm) | | | | | |
| Instructor | 2006/9 2009/5 | | | | | |
| Org. code Full organization name | | | | | | |
| 1590111 The University of British Columbia | | | | | | |
| Department/Division name | | | | | | |
| Anthropology and Sociology | | | | | | |

Personal information will be stored in the Personal Information Bank for the appropriate program.

| Family name, Given name | |
|-------------------------|--|
| Supernant, Kisha | |

| Work Experience (cont'd) | | | | | |
|--------------------------|------------------------------------|---|-----------------------|--|--|
| Position | | | End date (yyyy/mm) | | |
| Teaching Assistant | | | 2006/7 | | |
| Org. code | Full organization name | | | | |
| 1590111 | The University of British Columbia | | | | |
| Department/Division | name | | | | |
| Anthropology a | and Sociology | | | | |
| Position | | Start date (yyyy/mm) | End date (yyyy/mm) | | |
| Teaching Assis | tant | 2004/9 | 2005/4 | | |
| Org. code | Full organization name | | | | |
| 1590111 | The University of British Columbia | | | | |
| Department/Division | name | | | | |
| Anthropology a | and Sociology | | | | |
| Position | | Start date (yyyy/mm) | End date (yyyy/mm) | | |
| | | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ()))) | | |
| Org. code | Full organization name | | | | |
| | | | | | |
| Department/Division | name | | | | |
| | | | | | |
| Position | | Start date (yyyy/mm) | End date (yyyy/mm) | | |
| | | ()))) | ())) | | |
| Org. code | Full organization name | | | | |
| | | | | | |
| Department/Division | name | | | | |
| | | | | | |
| Position | | | End date (yyyy/mm) | | |
| | | | 0,,,, | | |
| Org. code | Full organization name | | | | |
| | | | | | |
| Department/Division | name | | | | |
| | | | | | |

| Family name, Given name | |
|-------------------------|--|
| | |

Supernant, Kisha

| Academic Background | | | | | | | |
|---|------------------------------------|------------------------------|---------------------------------|--------------------------------|--|--|--|
| List up to 5 degrees, beginning with the highest degree first and all others in reverse chronological order, based on the start date. | | | | | | | |
| Degree type | Degree name | Start date (yyyy/mm) 2004/09 | Expected date (yyyy/mm) | Awarded date (yyyy/mm) 2011/05 | | | |
| Doctorate | District | 2004/09 | Did CCLIDC on | | | | |
| Disc. code | Discipline | | Did SSHRC su you to get this | | | | |
| 60200 | Anthropology | | Yes | No | | | |
| Org. code | Organization | | | | | | |
| 1590111 | The University of British Columbia | | | | | | |
| CANAD | OA . | | | | | | |
| Degree type | Degree name | Start date | Expected date | Awarded date | | | |
| Master's | | (yyyy/mm) 2003/09 | (yyyy/mm) | (yyyy/mm) 2004/11 | | | |
| Disc. code | Discipline | 2003/09 | Did SSHRC su | | | | |
| Disc. code | Biscipinie | | you to get this | | | | |
| 60200 | Anthropology | | Yes | No | | | |
| Org. code | Organization | | | | | | |
| 1350911 | University of Toronto | | | | | | |
| COUNTRY | OA . | | | | | | |
| Degree type | Degree name | Start date (yyyy/mm) | Expected date (yyyy/mm) | Awarded date (yyyy/mm) | | | |
| BA Gen. | | 1998/09 | (3333/) | 2002/05 | | | |
| Disc. code | Discipline | | Did SSHRC su you to get this | | | | |
| 60200 | Anthropology | | Yes | ● No | | | |
| Org. code | Organization | | | | | | |
| 1590111 | The University of British Columbia | | | | | | |
| COUNTRY | DA | | | | | | |
| Degree type | Degree name | Start date | Expected date | Awarded date | | | |
| | | (yyyy/mm) | (yyyy/mm) | (yyyy/mm) | | | |
| Disc. code | Discipline | | Did SSHRC su you to get this | | | | |
| | | | Yes | ∩ No | | | |
| Org. code | Organization | | 0.55 | <u> </u> | | | |
| Org. code | Organization | | | | | | |
| Country | | | | | | | |
| Degree type | Degree name | Start date | Expected date | Awarded date | | | |
| | | (yyyy/mm) | (yyyy/mm) | (yyyy/mm) | | | |
| Disc. code | Discipline | | Did SSHRC su | | | | |
| | | | you to get this Yes | degree? | | | |
| Org. code | Organization | | U 163 | <u></u> | | | |
| | | | | | | | |
| Country | | | | | | | |

Family name, Given name Supernant, Kisha

Credentials

List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

| , | | , , | _, | |
|----------------------------|---|------------------------------|----------------------|-------------------------|
| Category | Name | Source or Country | Duration (Months) | Value / Year awarded |
| Postdoctoral Fellowship | SSHRC Post-Doctoral Fellowship | Federal Government CANADA | 24 | \$76,000 2010 |
| Fellowship | Charles and Alice Borden Fellowship in Archaeology | University CANADA | 12 | \$13,500 2009 |
| Fellowship | SSHRC Doctoral Fellowship | Federal Government | 12 | \$20,000 2007 |
| Fellowship | Cordulla and Gunter Doctoral Fellowship | University CANADA | 36 | \$54,000 2004 |
| Fellowship | University of Toronto Graduate Fellowship | University CANADA | 12 | \$10,400 2003 |
| | | | | |

Research Expertise

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

Northwest Coast Archaeology; Hunter-gatherers; Landscapes; Archaeology of Warfare; Identity; Agency; Practice Theory; Defensive Sites; Indigenous archaeology; GIS; mapping

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

| Rank | Code | Discipline | If Other, specify |
|----------|--------------------|---|------------------------|
| 1 | 60414 | Hunters and Gatherers | |
| 2 | 60499 | Other Archaeology | Indigenous Archaeology |
| 3 | 60402 | Archaeology - General: Theory and Method | |
| 4 | 60218 | Social Anthropology | |
| 5 | 60420 | Methods and Techniques | |
| Personal | I information will | be stored in the Personal Information Bank for the appropriate progra | m. Web CV |

| Family name, Given name | |
|-------------------------|--|
| Supernant Kisha | |

| Funded | Funded Research | | | | | | |
|---|---|----------------------------|------------------------|---------------------------------------|------------------------|--|--|
| List up to 8 grants or contracts you have received from SSHRC or other sources. List them in reverse chronological order, based on the year awarded. If you are not the applicant (principal investigator), specify that persons' name. | | | | | | | |
| Org. code Full name of funding organization | | | | Year awarded Total amo (yyyy) (CAN\$) | | | |
| 3010325 | Social Sciences and Humanities R | Research Council of Canada | 2011 | \$ | 200,150 | | |
| Role | Co-applicant | | Completion statu | us 🔲 | Complete | | |
| Project title | The Development of a Hunter-Fish Tsimshian village complex at Prince | | eology and h | istory | of the | | |
| Applicant's fa | amily name | Applicant's given name | | | Initials | | |
| Martinda | le | Andrew | | | | | |
| Org. code | Full name of funding organization | | Year awarded (yyyy) | To | otal amount (CAN\$) | | |
| Role | | | Completion statu | us 🔲 | Complete | | |
| Project title | | | | | | | |
| Applicant's f | amily name | Applicant's given name | | | Initials | | |
| Org. code | Org. code Full name of funding organization | | | To | otal amount (CAN\$) | | |
| Role | | | Completion status | | | | |
| Project title | | | | | | | |
| Applicant's fa | amily name | Applicant's given name | | | Initials | | |
| Org. code | Org. code Full name of funding organization | | | Year awarded Total amou (CAN\$) | | | |
| Role | Completion statu | us 🔲 | Complete | | | | |
| Project title | | | | | | | |
| Applicant's fa | amily name | Applicant's given name | | | Initials | | |

Personal information will be stored in the Personal Information Bank for the appropriate program.

Contributions:

Refereed Publications:

- (R) * Martindale, A. and K. Supernant
 - 2009 Quantifying the Defensiveness of Defended Sites on the Northwest Coast of North America. *Journal of Anthropological Archaeology* 28(2):191-204.
- (R) Supernant, K.
 - 2008 Cultural Landscapes Conceptualized: A cross-disciplinary genealogical history. *PlatForum* 9:97-111.
 - 2004 Technology, Labour and Rank on the Northwest Coast: A preliminary experiment in slate bead manufacture. *Vis a vis: Explorations in Anthropology*, 7:38-57.

Non-refereed Publications:

Supernant, K.

- 2008 Be of Good Mind. Canadian Journal of Archaeology 32(2):281-284.
- 2007 Coming to Shore. The Midden 39(2):21-22.
- 2005 Mapping and Testing Housepits in the Fraser Valley. The Midden 37(3):9-12.

Other refereed Contributions:

Supernant, K.

- *2011 Inscribing Identities on the Landscape: A spatial exploration of archaeological rock features in the Lower Fraser River Canyon. Unpublished PhD Dissertation, University of British Columbia.
- 2011 To Defend or not to Defend?: An Evaluation of the Defensibility of Rock Feature Sites in the Lower Fraser River Canyon, BC. Paper presented at the 76th Annual Society for American Archaeology Meetings, Sacramento, CA
- 2010 An exploration of the histor(ies) of the landscape(s) of the Lower Fraser River Canyon. Paper presented at the Canadian Archaeological Association Conference, Calgary, AB

- 2010 Contemporary community disputes and the production of archaeological knowledge: A case from British Columbia, Canada. Paper presented at the Society of American Archaeology Conference, St. Louis, MI.
- *2009 Encountering the Majestic: An archaeologist's experience of the Lower Fraser River Canyon. Plenary Session invited paper Place, Landscape and Experience: Embodying Field Research. BC Studies Conference, Victoria, B.C.
- *2008 Conflict and Cooperation: An exploration of the dynamic landscapes of the Lower Fraser River Canyon, BC." Paper presented at the Northwest Anthropological Conference, Victoria, B.C.
- 2007 Warfare on the Northwest Coast: Towards a holistic (archaeological) approach. Paper presented at the University of British Columbia Anthropology Graduate Conference, Vancouver, B.C.
- 2006 Identity, Conflict and Landscape: The practice of identity formation in the Lower Fraser Canyon, Paper presented at the Canadian Archaeological Association Conference, Toronto, ON
- 2005 Landscapes of Conflict: Local perspectives on regional warfare. Paper presented at the Canadian Archaeological Association Conference, Nanaimo, B.C.

Supernant, Kisha and David Schaepe

2008 Defining Community through Defense? An exploration of rock fortifications and identity formation in the Lower Fraser River Canyon, B.C. Poster presented at the Society for American Archaeology Meetings, Vancouver, B.C.

Blake, Michael, Kisha Supernant, Sue Formosa and Bruce Benz.

2010 A web-based method for mapping: An example showing the spread of early maize in the Americas. Poster presented at the Society of American Archaeology Conference, St. Louis, MI.

Forthcoming Publications:

(R) * Supernant, K.

2012 Rock Features of the Lower Fraser River Canyon. Archaeology of the Lower Fraser River Region. Ed. M. Rousseau and R. Carlson. Burnaby, BC: SFU Archaeology Press, 2012 (Abstract accepted, article under review)

Other Research Contributions:

Supernant, Kisha

- 2011 Session organizer and chair, "Theorizing the Salish Sea: New Perspectives on the Gulf of Georgia Region of the Northwest Coast." Symposium organized for the 76th Annual Society for American Archaeology Meeting Sacramento, CA
- 2011 Research Presentation to Shxw'o'hamel First Nation. Shxw'o'hamel First Nation Band Office.
- 2010 Research Presentation to Yale First Nation. Yale First Nation Band Office, Yale, BC
- 2008 Session organizer and chair, "Beyond the Household: Physical and Cultural Landscapes in the Archaeology of the Northwest Coast", Northwest Anthropological Conference, Victoria, B.C.
- 2008 Session Chair, University of British Columbia Anthropology Graduate Conference, Vancouver, B.C.
- 2006 Conference Chair, "Old kaleidoscopes, new visions?" Conference, Faculty of Arts/Department of Anthropology and Sociology, University of British Columbia.