

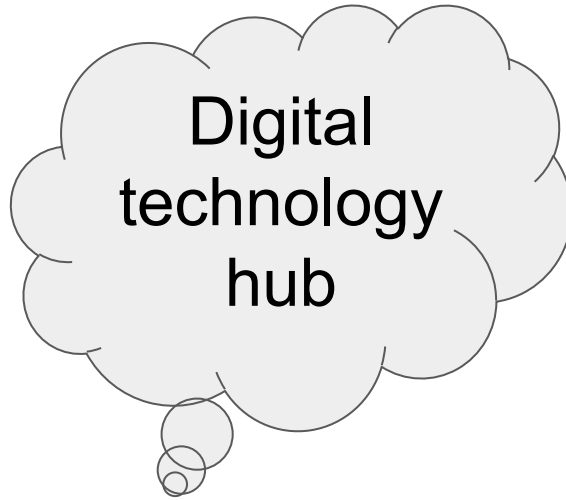
# Understanding the role of digital technology hubs in health science libraries

Connie Winther, Lydia Zvyagintseva, Janice Kung  
University of Alberta Library

UAL Open Ideas 2021



University of Washington Libraries, 2018. [hsl.uw.edu/vr-studio](https://hsl.uw.edu/vr-studio)



University of Minnesota 1 Button Studio  
<https://hsl.lib.umn.edu/biomed/at-the-library/techspaces>

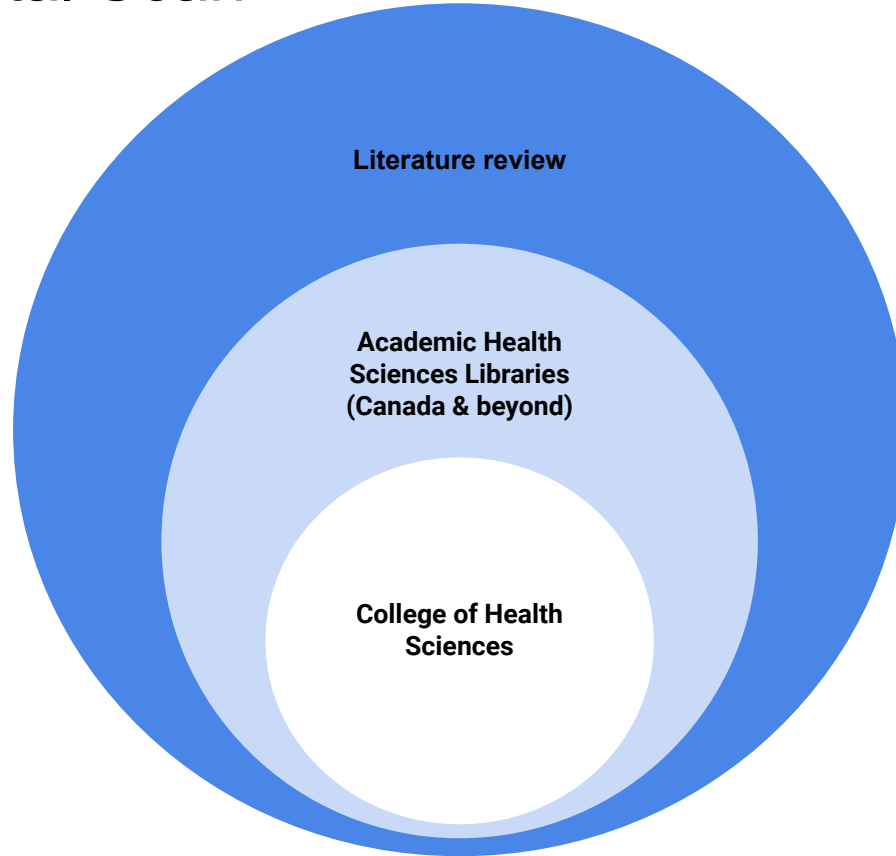


Klimex, T.  
<https://news.psu.edu/story/306236/2014/03/06/research/health-researchers-build-bridges-penn-state%E2%80%99s-new-visualization>



Rosefiring. New THL: Anatomage. @  
<https://flic.kr/p/wp4WmM>

# Environmental Scan



# Faculty of Nursing

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## U OF A IS HOME TO CANADA'S TOP NURSING PROGRAM, ACCORDING TO LATEST MACLEAN'S RANKINGS

The University of Alberta delivers the top nursing education in Canada and has the third-best education program, according to Maclean's 2022 Canadian University Rankings.

[Learn more](#)



Introduction

Roads

Traffic

Emissions

The National Pollutant Release Inventory reports 100's of industrial chemical emissions that are not monitored.

Zoom in to your area of interest to view where there are air quality monitors (for the 5 criteria air contaminants: CO, NO<sub>x</sub>, O<sub>3</sub>, PM, SO<sub>2</sub>), weather stations (for potential wind information), and industrial facilities that release chemicals to the air.

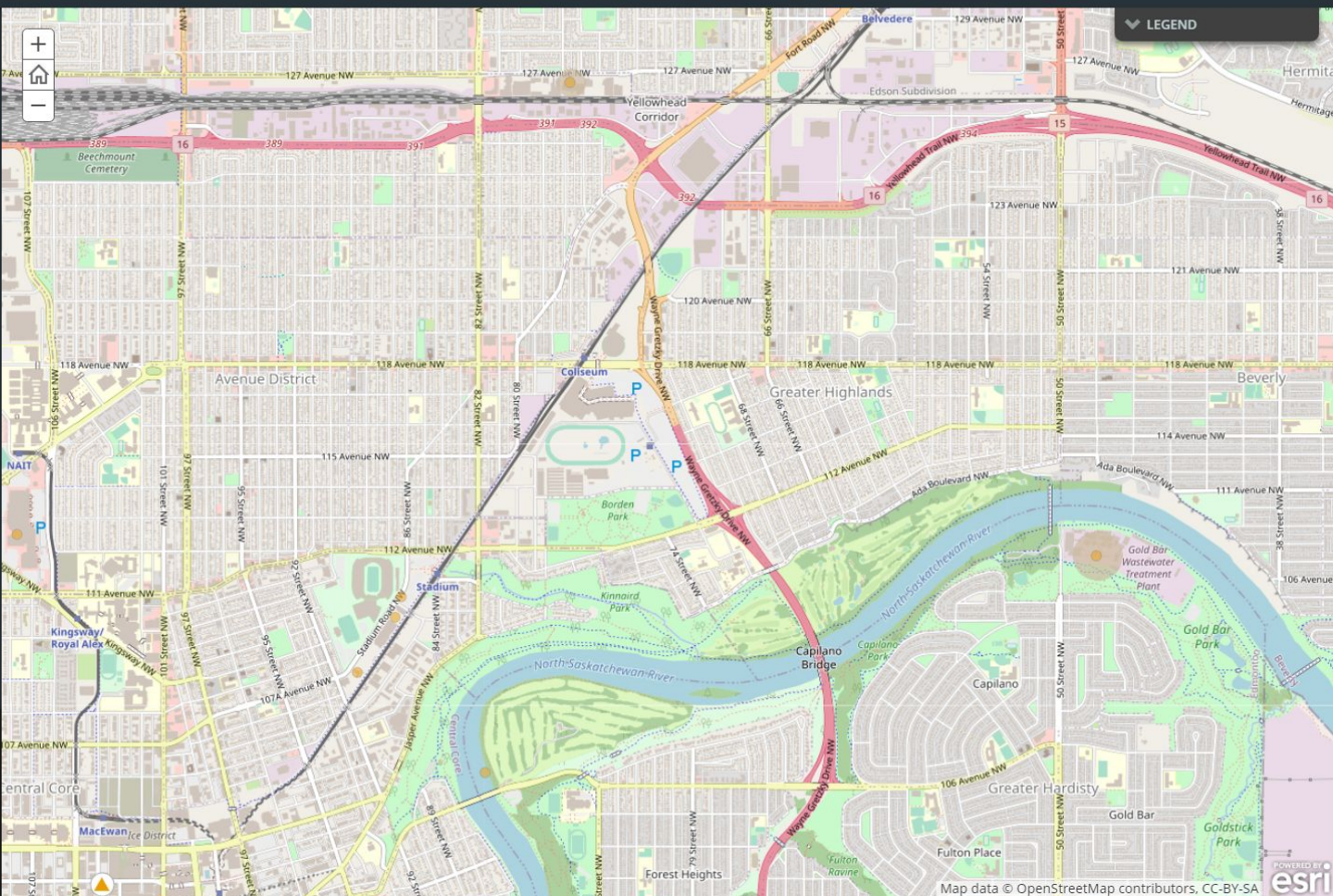
Refer to the pull-down legend to the right.

Notice as you zoom in and out, the heat map adjusts accordingly. The shaded areas indicate the average tonnes per square kilometer. The brighter the yellow means relatively more tonnes. The size of the orange circles indicate how many chemicals.

Click on the orange circles to get a list of the chemicals.

Macroscopic

Mixtures





## FROM THE ARCHIVES

### Systems Biology & Molecular Ecology of Chronic Wasting Disease

#### PREVIOUS PODCASTS

Twenty-three and me for wildlife: Using genetics to manage wildlife species - *CBC Ottawa Morning*

CWD update reveals little behavioral change - *Genome Alberta*

Summer internship for Indigenous peoples in Genomics - *Genome Alberta*

The next generation of SING - *Genome Alberta*

CWD: An Indigenous perspective - *Genome Alberta*

Other ways of knowing - *Genome Alberta*

Five things you need to know about CWD - *Genome Alberta*

A CWD update and farewell - *Genome Alberta*

Multidisciplinary approach key to learning more about CWD - *Genome Alberta*

# Disease Activity Score Indicator from EPICORE Centre(FoMD)

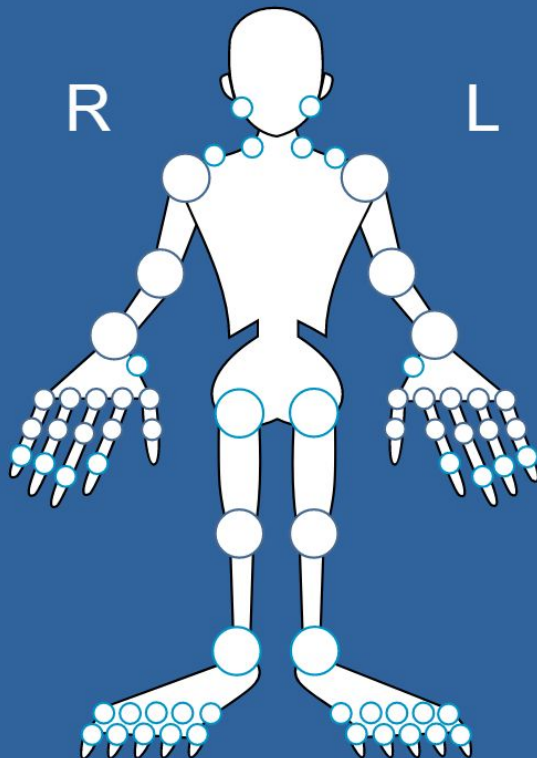
Select the state and click/tap on the joint

NORMAL

TENDER

SWOLLEN

BOTH



28 JOINTS

66/68 JOINTS

Tender 0

Tender 0

Swollen 0

Swollen 0

## ASSESSMENT

ESR (mm/hr)

0.0

CRP (mg/L)

0.0

Patient Global Health

0

## DISEASE ACTIVITY SCORES (DAS)

DAS 28

0



## Current Projects

Biomechanics and Disability

Biomechanics and Low Back Pain

**CogPro Virtual Reality**

Parallel Robotics

ProjectDR

Tele-Rehab 2.0

# CogPro Virtual Reality



Our goal through Cognitive Projections (CogPro) is to enhance post-secondary and health-care training by creating cutting-edge, authentic learning experiences in safe and accessible spaces, using affordable virtual and augmented reality simulation technologies. We believe that virtual reality (VR) has the potential to change the face of education and society forever.

We develop our simulations by applying video game development strategies, including programming and digital art expertise. Taking advantage of existing technologies, such as the Oculus Rift, HTC Vive, Google Cardboard and other VR viewers enables our team to focus on the development of the patient interaction. Our Optitrack Motion Capture system also allows us to capture human movements for generating genuine virtual "people" in our VR simulations. Software systems utilized to optimize the project include Adobe and Autodesk Maya to create virtual models; Unity for developing the VR simulations; Optitrack Motive for generating authentic animations from the motion capture system; and IBM Watson for authentic character interactions through artificial



**VIDEO: U of A, Rehab Med: VR viewer gives students on-the-go virtual learning experience**



**VIDEO: U of A, Rehab Med: Objective Structured Clinical Exam (OSCE) Virtual Reality Program**



# Review of other health sciences libraries



**PennState** Harrell Health Sciences Library  
College of Medicine Research and Learning Commons

[Research Help](#)

⓪ All Hours

Today's Hours: 24/7 with badge access

Staffed Hours: 8am - 8pm

[About](#) ▾ [Resources](#) ▾ [Services](#) ▾ [Tech Help](#) ▾

⚠ **Library December Closure:** The library will be unstaffed from 12/17/2021 5pm until 1/3/ 2022 8am. Badge access to the library will still be available 24/7 during this time. The library service desk phone will not be monitored during this time. The [reference email address](#) will be monitored for service requests only. If you have an emergency request to support patient care, please call 717-531-8011 to leave a contact number so a librarian can return your call during normal business hours.

⚠ **Library is open 24/7 again:** The Harrell Health Sciences Library is now [open at 50% occupancy with new guidelines](#). To receive library assistance, please contact [Research Help](#). Get the most up-to-date information from the [Covid-19 Research Resources](#). Thank you.

[HOME](#) / [TECH HELP](#) / [SPACES & TECHNOLOGIES](#) / [VIRTUAL REALITY](#)

## LIBRARY SPACES

[Computer Workstations](#)  
[Experimental Classroom](#)  
[Group Study Rooms](#)  
[One Button Studio](#)  
[Post Production Macs](#)  
[Quiet Study Lounge](#)  
[Technology Sandbox](#)

## Contact Library Tech

📍 C1620M  
📞 717-531-8626  
✉ [LibraryTech@pennstatehealth...](mailto:LibraryTech@pennstatehealth...)

## Virtual Reality

The Harrell Health Sciences Library: Research and Learning Commons offers augmented and virtual reality equipment and applications for all faculty, staff and students to use.

### Featured Software:

- [Nanome](#)
- [Physiology of the Eye](#)
- [Sharecare VR](#)
- [The Body VR: Anatomy Viewer](#)
- [TheBlu](#)
- [Unity](#)

### Featured Equipment:

- [Virtual Reality Headset](#)
- [High-Performance Workstations](#)

## Free Downloadable Apps

Free Virtual Reality apps downloadable at [STEAM website](#)🔗:



