



# **Getting to the Breaking Point**

# Elizabeth Evans, Clayton Pettit, Dr. Carlos Cruz Noguez Department of Civil Engineering, University of Alberta

# Results



Figure 5: Failure in grouted prism



Figure 7: Horizontal strain measured by DIC

### The ungrouted prisms displayed an average stress of 17.04 MPa



up underneath the MTS hydraulic press



Figure 6: Failure in ungrouted prism



Figure 8: Vertical strain measured by DIC



- Testing the masonry walls to compare the predicted results to the experimental ones
- Quantifying the data into an equation that can be used to improve the existing building codes

- Masonry and CMDC
- Canada Summer Jobs



### Figure 10: Load displacement graph for the grouted masonry prisms

## Next Steps

Figure 11: Elizabeth Evans next to the start of the large-scale wall setup



# Acknowledgements

Thank you to my supervisor Clayton Pettit and Principle Investigator Dr. Carlos "Lobo" Cruz-Noguez

This research is funded by Mitacs, AMC, Scorpio

This research experience would not have been possible without the entire WISEST team and my sponsors: Mr. David Quirk – SPECET, The WISEST Advisory Board and