

Kelsey Ann Catherine Serviss

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Academic Experience

Master of Science, Department of Geography, University of Calgary, AB **Sept 2019 – Present**

Pursuing a thesis in the subject area of fluvial geoarchaeology.

The research in pursuit of the thesis is co-supervised by Dr. Andrea Freeman and Dr. Yvonne Martin and spans the disciplines of archaeology, specifically pertaining to the Old Women's Phase people within the southern Alberta Plains, and fluvial geomorphology, specifically pertaining to the Bow River watershed in southern Alberta.

Teaching Assistantship within the Department of Geography.

Courses taught include Process Geomorphology and Soils and Landforms.

Bachelor of Science in Environmental Sciences, with Honours, University of Guelph, ON **2012 – 2017**

Co-op Major in Environment and Resource Management.

Research Assistantship within the Surface Processes Research Group from April 2016 – July 2016.

The Surface Processes Research Group, within the Geography Department, is lead by Dr. Jaclyn Cockburn and is comprised of undergraduate and graduate students at the University of Guelph. The group explores environmental and human drivers of landscape change with the objective of understanding and quantifying their impact on sediment cascades in watersheds. My role in the research group as an undergraduate student was to conduct guided research in fluvial geomorphology and to partake in regular meetings to discuss research and provide support and feedback among peers. The research involved investigating the velocity-reversal hypothesis (Keller, 1971) using flow data recorded in a restored stream in Brampton, Ontario.

Professional Experience

GHD Limited, Mississauga, ON **Oct 2017 – April 2019**

Stream Restoration Technician within the geomorphology unit at a multinational science and engineering consulting firm. The geomorphology unit, supervised by Dr. Jeff Doucette, carries out stream assessment, monitoring, and restoration design. Responsibilities in this position included: scientific and technical research and report writing; desktop and field data collection; data management and analysis; safety awareness and hazard control; leading technical proposal preparation and submission to potential clients; and collaboration and correspondence within immediate unit and across multiple working groups of scientists and engineers. Equipment used to collect data in the field included: Leica Total Station; Lieca GNSS RTK Rover; LaMotte turbidity meter; Hanna portable meter; Solinst Levellogger; and Russian peat borer.

Four Seasons Conservancy, Deep River, ON **May 2017 – Aug 2017**

Stream Monitoring Project Leader at a charitable conservancy. Responsibilities included designing, coordinating, and overseeing field data collection program and data analyses and managing a project assistant. Tools used for flow monitoring included: SonTek ADV; and FlowWatch flow meter. Data analysis involved organizing and summarizing data as well as performing statistical analyses in Microsoft Excel and ArcGIS. Completion of the research project required producing a full-length report summarizing the project background, research and monitoring methods, and findings.

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Environment Canada, Gatineau, QC

May 2015 – Aug 2015

Junior Chemical Evaluator within the Ecological Assessment Division. Conducted and organized research in support of domestic chemical assessments. Evaluated reliability of scientific literature for use in internal assessment reports. Extracted, organized, and interpreted information from domestic and international chemical databases. Executed various steps of environmental risk assessments and completed a major literature review on the topic of soil physical and chemical properties and their applications in ecological risk assessment in Canada.

Ontario Ministry of Agriculture, Food and Rural Affairs, Guelph, ON

Sept 2014 – Dec 2014

Policy Research Assistant within the Food Safety and Environmental Policy Branch. Conducted and organized research in support of policy-making initiatives. Research included compiling and analyzing ecological, biological, chemical, and policy data. Worked in partnership with internal branches on projects with extended timelines. Topics of focus included: nutrient management and related soil science sub-topics; drinking water safety; animal welfare enforcement; and pesticide (focus on neonicotinoids) lifespan in Ontario soils.

Community and Volunteer Experience

GHD Limited North American Young Professionals Committee, Mississauga, ON

June 2018 – April 2019

Committee Member of the North American Young Professionals Committee (NAYPC), which serves to connect young professionals within GHD Limited locally, regionally, and globally. Member responsibilities included attending regular meetings to discuss and plan social, educational, and charitable events and initiatives for committee members and all GHD Limited employees to participate in.

Surface Processes Research Group, University of Guelph, ON

April 2016 – July 2016

Student Member within the Surface Processes Research Group, which is lead by Dr. Jaclyn Cockburn, and is comprised of undergraduate and graduate students at the University of Guelph. In addition to a time-limited research assistantship role within the research group as an undergraduate student, my role included attending regular meetings to discuss research conducted by fellow students and provide support and feedback among peers. Providing support outside of regular meetings included: attending local poster presentations in which fellow student members were presenting; providing editing and research support; and attending practice and actual thesis defenses.

International Association for Great Lakes Research, Guelph, ON

June 2016

Student Volunteer at the 2016 International Association for Great Lakes Research (IAGLR) Conference, held in Guelph, Ontario. IAGLR holds an annual conference that includes topical lectures, seminars, and a poster reception to present emerging research pertaining to large lakes and their watersheds. The role as a student volunteer included preparing materials for attendees prior to the conference start as well as setting-up lecture halls and providing support for lecturers during their presentations.

Co-op Student Advisory Committee, University of Guelph, ON

Jan 2015 – April 2016

Student Advisor on the Co-op Student Advisory Committee (CSAC). The CSAC served to advocate for the interests and concerns of co-op students to program coordinators and advisors at the University of Guelph Career Centre. Responsibilities included: meeting monthly with fellow student committee

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members and representatives of the Career Centre; and participating in co-op education events as a student representative, occasionally speaking on behalf of the CSAC at events, namely the Co-op Education Awards Reception in 2015 and 2016.

Let's Talk Science, University of Guelph, Ontario

2015

Volunteer Instructor at Let's Talk Science, a Canada-wide volunteer-run organization with local chapters at post-secondary institutions, provides free STEM workshops and presentations to elementary and high schools as well as other youth organizations. Volunteer responsibilities included: attending training workshops to prepare for instructor duties; scheduling and coordinating workshops with other volunteers; and delivering workshops to students from ages 4 – 18. The mission of the organization is to introduce the wide variety of STEM disciplines to students at no cost to the students or schools.

Skills and Qualifications

Swiftwater Rescue Technician (SRT 1) Certification

May 2019

Completed a three-day course through Raven Rescue to obtain SRT-1 certification in order gain skills necessary to work safely in and around moving water. SRT-1 level certification qualifies one to identify risks, travel in and around moving water, perform rescues and recoveries, and make informed decisions regarding work and rescue in and around moving water. The SRT-1 requires re-certification every three years.

First Aid, CPR, and AED

March 2018

Completed a two-day course through St. John Ambulance to obtain standard First Aid, CPR, and AED certification. Requires re-certification every three-years.

Leica Total Station and GNSS RTK Ground Surveying

Extensive experience planning and conducting geomorphic field surveys using Leica Total Station and Global Navigation Satellite System (GNSS) Real-time Kinetic (RTK) survey equipment in urban, rural, and wilderness environments.

Microsoft Office Suite

Proficient at expert level in Microsoft Word, Excel, PowerPoint, and Outlook. Proficient at beginner level in Microsoft Access.

Geographic Information System (GIS) and Remote Sensing Software

Proficient at intermediate level in ArcGIS applications and Harris Geospatial Solutions™ Environment for Visualizing Images (ENVI®) remotely sensed image analysis software.