

Matthew Riel Ellis Teillet

Wilfrid Laurier University
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PROFILE

- Over three years of experience collecting samples in prairie, boreal, montane, sub-Arctic, Arctic, and aquatic ecosystems.
- Three years of experience identifying plants, invertebrates, fish, birds, and mammals in the field or in a lab.
- Four years of experience working independently in a laboratory setting to analyze a variety of aquatic and terrestrial sample types.
- Five years of experience analyzing, interpreting, and communicating results orally or through written reports.

EDUCATION

Master of Science (2018-April 2020), Integrative Biology, Wilfrid Laurier University – Waterloo, Ontario.

- Thesis: Impacts of transportation infrastructure on water quality and fishing opportunities in the Northwest Territories.
- Supervisors: Dr. Derek Gray and Dr. Alex Latta.

Bachelor of Science (2011-2016), Biological Sciences, University of Manitoba – Winnipeg, Manitoba.

- Themes: Ecology and environmental biology.
- Minor: Geography.

EXPERIENCE

Research Assistantship (2018-2020); Department of Infrastructure - Government of the Northwest Territories and Wilfrid Laurier University.

- Developed and executed a multidisciplinary study to examine impacts of transportation infrastructure on riverine ecology in the Northwest Territories.
- Worked closely with two Gwich'in communities to document Tradition Knowledge.
- Collected and processed sediments, benthic invertebrates, and water quality samples.
- Analyzed data for significance in R statistical software.
- Communicated findings through written reports and oral presentations (technical and plain language).

Chapter Chair - Laurier (2019-2020); Global Water Futures.

- Organized training and outreach opportunities for young water science researchers at Wilfrid Laurier University.
- Managed budgets and worked within the organization's mandate to plan events.

Field Technician (Aug 2017-Aug 2019); various projects, Wilfrid Laurier University.

- Collected water quality samples, invertebrates, and fish in lakes in Ontario, North Dakota, and the Northwest Territories.
- Deployed gill nets following the Ontario Broad-Scale Monitoring Program.
- Followed provincial (OBBN) and federal (CABIN) benthic macroinvertebrate protocols.
- Worked as part of a team in remote field locations in adverse weather.
- Worked closely with members of Indigenous communities.
- Navigated boats, trucks, and other vehicles using GPS units.

Teaching Assistantship (2018-2019); Wilfrid Laurier University.

- Courses: Limnology, Population Ecology, and Introductory Biology.

Bathymetry Technician (July 2019); Global Water Futures and Wilfrid Laurier University.

- Worked closely with the Indigenous community of Fort Hope, Ontario to investigate a fish kill.
- Created bathymetric maps of lake in question to guide water quality and fish collection.

Research Assistantship (Fall, 2018); Giant Mine Remediation Project and Wilfrid Laurier University.

- Working independently, developed a survey tool to measure stress and coping mechanisms in Yellowknife, NWT residents.

Research Technician (Summer, 2016); University of Manitoba.

- Examined the pollination ecology of a prairie orchid species and a montane plant in Manitoba, Minnesota, Iowa, Wyoming, and Colorado.
- Collected and identified flowering plant species and pollinators in field and lab.

Lab Technician - Volunteer (2016); University of Manitoba.

- Prepared wolf tissue for stable isotope analysis.
- Worked independently following scientific protocols.

Lifeguard/Swim Instructor (2010-2016); City of Winnipeg.

- Supervised the safety of staff and patrons at indoor and outdoor City of Winnipeg facilities.

REFEREED PUBLICATIONS

Elmarsafy, M., Vucic, J., **Teillet, M.**, Pretty, T., Cohen, R., Huynh, M., Gray, D. K. (Submitted). Which physiochemical variables should zooplankton ecologists measure when they visit a lake?

Freeth, C. E., **Teillet, M. R. E.**, Roth, J. D. 2016. Variation in snowshoe hare density near Churchill, Manitoba estimated using pellet counts. *PMUSER*, 1-6.

VOLUNTEERING

- Science Outreach Coordinator (Sept 2019), Dehcho Youth Ecology and Traditional Knowledge Camp, Global Water Futures.
- Graduate Student Coordinator (2018-2019), Biology Graduate Students' Association, Wilfrid Laurier University.
- Project Judge (May 2018, 2019), Mary Johnston Public School Science Fair, Waterloo.
- Poster and Seminar Judge (March 2018), Ontario Biology Day, Wilfrid Laurier University.
- Christmas Bird Count (Dec 2016, 2017), Winnipeg.
- Route Marshal (Oct 2015, 2016), CIBC Run for the Cure, Winnipeg.

CERTIFICATIONS AND MEMBERSHIPS

- Manitoba Métis Federation
- Ethical Conduct for Research Involving Humans (TCPS2; 2019)
- Canadian Firearms Safety Course (2018)
- Wilderness First Aid, CPR C (2018)
- Driver's License
- Pleasure Craft Operator Card