

Matthew Watkins

23-18211 70 Avenue, Surrey, B.C., Canada, V3S 8K9
Phone: (778) 245-1253 • Email: mattw9@proton.me

Education

MSc Environmental & Life Sciences
Trent University, Peterborough, ON

Jan. 2024

BSc Physical Geography
Simon Fraser University, Burnaby, B.C.

May 2018

Experience

Trent University

Graduate Teaching Assistant

Sept. 2020 – Apr. 2022

- Prepared and gave weekly briefings to groups of 25 students; marked assignments and exams
- Answered student questions and provided help through Zoom and email

Trent University

Research Assistant

May 2020 – Aug. 2020

- Analysed ice, streamflow (tidyhydat) and climate data to examine if peak flows for numerous watersheds east of Lake Superior were shifting temporally
- Created seasonal climate (temperature and precipitation) summaries via random point generation for each watershed

Simon Fraser University

Open Education Research Assistant

Nov. 2019 – Apr. 2020

- Refined 14 module resources for an introductory course in Physical Geography that have been used successfully for three semesters
- Worked in co-operation with the Teaching and Learning Centre to research and compile engaging and impactful open-source multimedia resources
- Utilised Microsoft Word, Google Drive and Zotero to edit, script and organize media, materials, definitions and references into an online-textbook platform

Douglas College

Volcanology Research Assistant

Aug. 2019 – Nov. 2019

- Performed water quality sampling for pH, temperature and dissolved solids at multiple hot springs
- Analysed lab data and created a foundational time-series dataset to monitor water geochemistry

Douglas College

Insect Ecology Research Assistant

Apr. 2019 – Jul. 2019

- Conducted multiple ground surveys for a habitat assessment project involving at-risk beetle species
- Identified salt marsh plant species associated with beetle habitat and completed quadrat sampling
- My work on *Omus audouini* was included and presented at the CSEE, ESC, & AES 2019 Joint Meeting
- Assisted Dr. McGregor with microscope-based beetle identification in weekly lab sessions

City of Surrey

Engineering Labourer

May 2016 – Dec. 2018

- Inspected odour control units and monitored a network of 50 sanitary, drainage and water stations
- Operated five-ton trucks in an unsupervised environment
- Trained new student hires and led group fieldwork for two years
- Interacted with the public on a daily basis and helped resolve complaints

Additional Skills

- Streamflow study design, implementation and monitoring in remote areas
- Hydrological data collection, processing and analyses – R; rating curve development; mass flux estimation; multiple linear regression; spatial correlation

Licenses and Certifications

First Aid Level 1; RPAL/PAL; Swift Water Awareness Level 1; Class 5 license

Membership

Professional Geoscientists of Ontario

Dec. 2020 – Present

Geoscientist-in-Training

Extracurricular

SFU Ban the Bottle

Nov. 2019 – Apr. 2020

Member

- An initiative supported by the Pacific Water Research Centre that aims to stop the sale of plastic water bottles on campus

Nature Work Parties

Feb. 2019 – Sept. 2020

Volunteer

- Enhanced and maintained Surrey parks by removing invasive plants species, planting native trees and cleaning up waste