

Julie Earle

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PROFILE

I am a full-time first-year Master of Science student at Carleton University. I completed my Bachelor of Science at McMaster University in 2020, majoring in Honours Environmental Science Co-op and minoring in Geographic Information Systems (GIS). I am a hard working, goal-driven, self-disciplined individual. I enjoy learning from my peers in a team setting, while having the skills that are necessary to be successful in an independent position.

EDUCATION

- Carleton University, Ottawa, ON September 2020 – August 2022
- M.Sc. Geography
 - Thesis project: studying microclimates via in-situ and remote sensing techniques to advance the understanding of how microclimates are influenced by landscape-level environmental processes, ultimately supporting future biodiversity conservation and land management practices
- McMaster University, Hamilton, ON September 2015 – May 2020
- B.Sc. Honours, Environmental Science Co-op, Minor in GIS
 - Two 8-month co-op placements at Environment and Climate Change Canada 2018 & 2019
 - Courses of instruction include: Environmental Geophysics, Environmental Assessment, Remote Sensing, Advanced Vector GIS, Environmental Systems Modelling, Advanced Raster GIS, and Applied Spatial Statistics
- Chatham Secondary High School, Chatham, ON September 2011 – June 2015
- High School Diploma

CERTIFICATIONS

- G-Class Driver's License
- Smart-Serve Certified

SKILLS & KNOWLEDGE

Technological Skills

- Microsoft Office (Word, Access, Excel, Powerpoint)
- ArcGIS (ArcMap, ArcCatalog, ArcOnline)
- Evolving knowledge of VBA, RStudio, & Google Earth Engine (GEE)
- Experience with EkkoProject and Geosoft software

Field Equipment

- Geophysical equipment: gravimeters, geophones, seismographs, ground penetrating radar (GPR), magnetometers, hand-held GPS, quad-copter

Laboratory Knowledge

- Soil sampling and analysis
- Glacial sediment core logging and historical reconstruction
- Stratigraphic correlation & fossil identification in rock samples

WORK EXPERIENCE & DUTIES

- Carleton University, Ottawa, ON September-December 2020
- Graduate Teaching Assistant
- Hosted a one-hour tutorial once a week that involved presenting supplementary course material to the class and facilitating group discussions via Zoom.
 - Responsible for responding to emails sent by students regarding any questions they had relating to course or tutorial material.
 - Marked and entered marks for student assignments, reports, midterms, and exams.
- Environment and Climate Change Canada, Ottawa, ON June-August 2020
- Research Assistant

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- Performed a systematic literature review to enhance the understanding of how thermal imagery obtained from remote sensing technologies is being used in terrestrial wildlife ecology applications, and what the methodological considerations should be.

McMaster University, Hamilton, ON

January-May 2020

Teaching Assistant

- Hosted a one-hour tutorial once a week that involved presenting supplementary course material to the class and facilitating group discussions.
- Responsible for responding to emails sent by students regarding any questions they had relating to course or tutorial material.
- Marked and entered marks for student assignments, reports, midterms, and exams.
- Invigilated midterm and exam sessions. This involved the set-up and collection of exam papers, as well as answering any questions that students may have had during the examination.

Environment and Climate Change Canada, Gatineau, QC

May-December 2019

Assistant Physical Scientist

- Completed QA QC projects on various datasets using Access queries, relationships, and SQL.
- Updated particulate matter industry sub-class code ratios that were used for 2020's air emission estimates.
- Converted emission estimate tables in Access into XML format using VBA code.
- Created the blueprints of a Hydrogen Production model to be the foundation for future emission estimates.

Environment and Climate Change Canada, Gatineau, QC

December 2019

GIS Student

- Digitized features from historical orthophotos (Landsat 5-8, Sentinel 1 & 2) to create a training dataset using visual, expert knowledge, and additional sources.
- Downloaded, exported and imported datasets into GEE to further run Javascript to create clean mosaics for different time periods.
- Ran a random forest supervised classification and then assessed its validation and accuracy.
- Ran R scripts for classification, validation and data analysis.

McMaster University, Hamilton, ON

May-August 2019

Teaching Assistant – Regional Geography

- Responsible for student consultations via email.
- Marked and entered marks for four discussion posts and one final project for an online class of ~300.

Environment and Climate Change Canada, Gatineau, QC

January-August 2018

Assistant Evaluator

- Conducted Robust Study Summaries on ecotoxicity articles to determine if a lab report/study was reliable.
- Data extraction and entry of effluent-receiving exposure and reference areas from various metal mines throughout Canada.
- Reorganization of the online management platform "Nuxeo".

VOLUNTEER

Environment and Climate Change Canada, Gatineau, QC

January-August 2018

Social Event Organizer

- Organized social events for fellow students to have the opportunity to network and meet people outside of work hours.

Environment and Climate Change Canada, Gatineau, QC

July 2018

Book Sales Volunteer

- Assisted in raising funds for the Government Charitable Campaign by overseeing book sales during an allotted time-period within my workday.

Chatham-Kent Secondary School, Chatham, ON

January-June 2015

Peer Mentor

- Tutored a tenth grade student providing assistance during tests by verbally reading the questions and guiding her to rational thinking.