

Expertise

- Geospatial data mapping with *Esri ArcGIS* and *Oasis Montaj*.
- Data analysis and geophysical modelling with *Leapfrog* and *Python*.
- Project and data management with *Git* and *SQL*.
- Academic and professional writing and typesetting with *LateX*.
- Field knowledge and experience.

Experience

Geophysicist

Toronto, ON

Abitibi Geophysics, Co-op

Jan 2022–

- Mapping of magnetic survey and induced polarization data.
- Development of templates and control files for streamlined, standardized map output in Oasis Montaj.
- Migration of past geophysical projects that use obsolete modules.

Researcher

Toronto, ON

University of Toronto, Project

Fall 2021–

- This research project was supervised by Professor *Nick Eyles*.
- Investigated intraplate earthquakes in *western Quebec* based on sub-bottom seismo-acoustic reflection profiles of deformed sedimentary structures in Lake Simard, Timiskaming, Quebec.
- 3D visualization and analysis based on the cross-section stratigraphic sequences with *Blender* to determine the extent and chronology of those deformation structures.

Research Assistant

Toronto, ON

University of Toronto, Co-op

Summer 2021

- This research position was supervised by Professor *Nick Eyles*.
- Trained for high-resolution Li-DAR digital data processing and imaging of glacial geological features (e.g., drumlins, lineations, moraines, etc.) and assisted with establishing glacial history and glacier dynamics based on their remnant structures.
- Assisted with an ecology survey of invasive golden-rods in the Rouge National Urban Park.
- Assisted with capturing *mega-grooves* near Odessa for photogrammetry 3D models.
- Assisted with a *seismic survey* to test equipment near the Miller Lash house.
- Captured media for *e-Learning Ontario* in a two-week road trip around the Georgian Bay, Ontario.

Education

Specialist in Environmental Physics

Expected 2023

Honours Bachelor of Science, University of Toronto

Notable Courses: Planetary Geophysics, Planetary Astrophysics, Mineralogy, Petrology, Sedimentology, Structural Geology, Glacial Geology, Scientific Computing.

Honours & Awards

Don Salt Memorial Scholarship

Department of Earth Sciences, University of Toronto

Mar 2022

NSERC Undergraduate Student Research Award

Natural Sciences and Engineering Research Council, Government of Canada

Jul 2021

CRESS Summer Research Award

Centre for Research in Earth System Science, University of Toronto

Apr 2021

University Entrance Scholarship

University of Toronto

Sept 2018

Miscellaneous

Class 5 Driver's License

Saskatchewan Driver's Licensing and Vehicle Registration

2017–

Pleasure Craft Operator Card

Transport Canada

2021–

Basic Operator of Remotely Piloted Aircraft Systems

Transport Canada

2021–