

Alan J. Yu

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Summary

I am a fourth-year undergraduate student in the Specialist and Co-op program of Environmental Physics at the University of Toronto. My notable skills include:

- Proficiency in Geographic Information Systems (e.g., *ESRI ArcGIS*).
- Proficiency in professional writing with *LaTeX* and the *Office suite*.
- Proficiency in data analysis and geophysical modelling with *Python*.
- Proficiency in project and data management with *Git* and *SQL*.
- Solid field knowledge and fieldwork experience.

Education

Specialist (Co-op) in Environmental Physics

2018-2023

Honours Bachelor of Science, University of Toronto

Notable Courses: Mineralogy, Sedimentology, Petrology, Glacial Geology, Planetary Astrophysics, Planetary Geophysics, Scientific Computing, Classical Mechanics, Multi-variable Calculus, Differential Equation.

Experience

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 seismoacoustic reflection profiles of deformed sedimentary structures in Lake Simard, Timiskaming, Quebec.
- Multidimensional analysis and visualization of collected geophysical imaging data to determine the extent and chronology of the observed deformed structures.

Research Assistant

Toronto, ON

University of Toronto, Co-op

Summer 2021

- This research opportunity 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 landforms.
- Assisted with an ecology survey of invasive golden-rods in the Rouge National Urban Park.
- Assisted with drone captures of **mega-grooves** near Odessa for Photogrammetry 3D models.
- Assisted with a **seismic survey** to test equipment near the Miller Lash house at the Scarborough campus of the University of Toronto.
- Captured media content for **e-Learning Ontario** by completing a two-week road trip around the Georgian Bay, Ontario.

Developer & Webmaster

Saskatoon, SK

Way-Way Housewares, Part-time

2018-2019

- Designed and launched a modern e-commerce platform via Wordpress with custom javascripts.
- Ensured that the website is operating correctly and examined traffic through the site.

Honours & Awards

NSERC Undergraduate Student Research Award <i>Natural Sciences and Engineering Research Council of Canada</i>	Jul 2021
CRESS Summer Research Award <i>Centre for Research in Earth System Science, University of Toronto</i>	Apr 2021
University Entrance Scholarship <i>University of Toronto</i>	Sept 2018

Miscellaneous

Class 5 Driver's License <i>Saskatchewan Driver's Licensing and Vehicle Registration</i>	Since 2017
Pleasure Craft Operator Card <i>Transport Canada</i>	Since 2021
Basic Operator of Remotely Piloted Aircraft Systems <i>Transport Canada</i>	Since 2021