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 Scarborough. My notable skills include:

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

Geophysicist Toronto, ON

Abitibi Geophysics, Co-op

Jan 2022-

- Analysis and visualization of preliminary geophysical data (e.g., induced polarization, magnetic field, etc.) using Geosoft Oasis Montaj.
- Template and macro development for streamlined production and standardized output.
- Update and migration of older projects with 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 seismoacoustic reflection profiles of deformed sedimentary structures in Lake Simard, Timiskaming, Quebec.
- Multidimensional analysis and visualization of cross-section stratigraphic sequences with Blender to determine the extent and chronology of the observed deformed structures.

Research Assistant Toronto, ON Summer 2021

University of Toronto, Co-op

- 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.

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- 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 2018-2019

2021-

Way-Way Housewares, Part-time

- 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

Transport Canada

Basic Operator of Remotely Piloted Aircraft Systems

NSERC Undergraduate Student Research Award Jul 2021 Natural Sciences and Engineering Research Council of Canada **CRESS Summer Research Award** Apr 2021 Centre for Research in Earth System Science, University of Toronto **University Entrance Scholarship** Sept 2018 University of Toronto **Miscellaneous** Class 5 Driver's License 2017 -Saskatchewan Driver's Licensing and Vehicle Registration **Pleasure Craft Operator Card** 2021 -Transport Canada

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