

Alan J. Yu

(306) 241-5981 | aj.yu@mail.utoronto.ca | alanjyu.com

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, Scientific Computing, Planetary Geophysics, Classical Mechanics, Multi-variable Calculus, Differential Equation.

Experience

Research Assistant

Toronto, ON

University of Toronto, Internship

Summer 2021

- This research opportunity was funded by the [Centre for Research in Earth System Science](#) at the University of Toronto Scarborough and supervised by Professor [Nicholas Eyles](#).
- Trained for advanced high resolution Li-DAR digital data processing and imaging of glacial geological structures (e.g., drumlins, mega-scale glacial lineations, moraines, etc.) in North America and constructed the 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.
- Captured the [mega-grooves](#) near Odessa on a drone for Photogrammetry 3D models.
- Assisted with a [seismic survey](#) to test the equipment for an upcoming course near the Miller Lash house.
- Completed a two-week road trip around the Georgian Bay and captured media content for [e-Learning Ontario](#).

Admission Student Mentor

Toronto, ON

University of Toronto, Volunteer

Spring 2021

- Provided general admissions, academic program and campus information and offered motivation and emotional support to prospective students.
- Assisted with their career exploration and contact development.

Developer & Webmaster

Saskatoon, SK

Way-Way Housewares, Part-time

2018-2019

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

Honours & Awards

NSERC Undergraduate Student Research Award

Natural Sciences and Engineering Research Council 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

Since 2017

Pleasure Craft Operator Card

Transport Canada

Since 2021

Basic Operator of Remotely Piloted Aircraft Systems

Transport Canada

Since 2021