

## Environmental Physics Specialist Candidate

**Mail** alanjhyu@gmail.com  
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- Advanced proficiency in data analysis and scientific writing using MATLAB, PYTHON, L<sup>A</sup>T<sub>E</sub>X, and *Office Suite* programs for both academic and professional purposes developed through research and laboratory sessions.
- Proficient in analyzing experimental data and presenting in scholarly articles as proven through formal laboratory reports.
- Robust field analysis skills and savvy safety cautions obtained from *in situ* geology researches.
- Environmental enthusiast with solid knowledge in subjects of biological, chemical, physical and environmental science.
- Solid communication, organization, and time management skills developed through academics and by working as in administrating and customer service fields.

**Candidate, Honours Bachelor of Arts/Science (B.Sc)** 2018-2022  
*University of Toronto at Scarborough*  
 Third-year specialist (Co-operative stream) in Environmental Physics.

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| <b>Life on Earth: Unifying Principles</b>  | Fall 2018 |
| <ul style="list-style-type: none"> <li>• Adequate knowledge of population, genetics and molecular biology, selection and evolution, diversity, cladistics and speciation;</li> <li>• experimental interpretation with findings in the correlation between experimental and control groups by analyzing critical t-values and data presentation through scientific tables and figure presentation in formal lab reports.</li> </ul> |           |
| <b>Intermediate Physics Laboratory I</b>   | Fall 2019 |
| <ul style="list-style-type: none"> <li>• Extensive experimental and theoretical study of circuits with applications to measurements using laboratory instrumentation; and</li> <li>• data analysis and graphical illustration of the behaviour of physical systems in scientific writings.</li> </ul>  |           |
| <b>Earth History</b>   | Fall 2019 |
| <ul style="list-style-type: none"> <li>• Accurately classified soil, rocks, fossil and minerals and identified its geological processes and environments;</li> <li>• competent knowledge of Earth's development of the atmosphere, oceans, biology, climate and geochemical cycles; and</li> </ul>   |           |

- conducted *in situ* geomorphology, and glacial movements research and *paleo*-fossils identification to determine the marine paleo-environment near Hamilton.

### **Principles of Hydrology**

Fall 2019

- Thoroughly analyzed annual precipitation data with written reports, spreadsheet and graphical representation;
- estimated precipitation by Thiessen polygon, and through isohyetal and hyetograph graphs and predicted monthly evapotranspiration using Thornthwaite's method; and
- knowledge of measurements of water fluxes, forecasting of rainfall and streamflow events and further influences due to human activity.

## **EXPERIENCES**

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### **Event Assistant, Volunteer**

2014-2018

*Juniper Housing Corporation, Saskatoon SK*

- Assisted with setting up outdoor camping equipment and organizing community events; and
- prepared and served food and drinks, acknowledged for customer satisfaction.

### **Cashier, Part-Time**

2017-2018

*Dennis' Your Independent Grocery, Saskatoon SK*

- Interpersonal communication and conflict resolution with zero complaints.

### **Network Systems Administrator, Part-time**

2018-2019

*Way-Way International Inc., Saskatoon SK*

- Safely configured, maintenance, optimization and troubleshooting of the company's network infrastructure in both front-end and back-end;
- data management for item storage, delivery, and display; and
- online and in-person customer service regarding inquiries.

### **Exam Invigilator, Volunteer**

Spring 2019

*Mathematical Kangaroo*

- Guided students in Grade Three and Grade Six to their designated areas;
- comforted students' stress and boredom during the exam; and
- ensured the exam carried out successfully with no academic offenses.

## **AWARDS & CERTIFICATIONS**

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### **Entrance Scholarship**

Fall 2018

*University of Toronto at Scarborough*

Amount of \$1500 awarded due to excellent academic performance.

### **Class 5 Driver's License**

Since 2017

*Saskatchewan Driver's Licensing and Vehicle Registration*

Permitted to operate Class 5 vehicles (see full list at [sgi.sk.ca](http://sgi.sk.ca)).

Equivalent to full licenses for passenger vehicles in all provinces (see full chart at [sgi.sk.ca](http://sgi.sk.ca)).