

# Joshua Ji

559 Jellett Way Edmonton, AB, T6L6P9

**Cell:** (587) 568 4157 **Email:** joshuanji23@gmail.com

**Website:** <https://joshuaji.com/>

Dedicated, curious student working towards a computer science degree in university. Searching for opportunities to apply knowledge and passion for computer science into the real world.

## Work Experience

**Kumon Ellerslie** / Feb. 2017 - Jun. 2018

- Aided students through confusion in their math or reading classwork.
- Managed a group of 8-10 students to make sure they were focused on their tasks and were finishing on time.
- Marked math and reading booklets at various levels.

## STEM Experience

**Research Student** / University of Alberta / Jul. 2020 - Present

Computational Psychiatry Lab, University of Alberta, Edmonton, AB

Supervisor: Dr. Bo Cao

- Co-leading real-world projects using administrative data and Pandas, Numpy and Scikit-Learn in Python and Jupyter Notebook.
- Implementation of unsupervised machine learning models, e.g., t-SNE and linear regression.
- Scientific literature search and review.

**Interdisciplinary Science Competition** / Feb. 2020

- Combined knowledge in Computer Science, Pharmacology, and Organic Chemistry with a high school partner.
- Worked on a "Central Case Study" focusing on athletes and hormone use.
- Completed first-to-second year undergraduate laboratories and various workshops.
- Earned the "Most Interdisciplinary Award" for the best overall score across the entire competition.

**Junior Investigator at Youreka Edmonton** / Jan. 2020 - Apr. 2020

- Collaborated with a team of 4 high school students and 1 undergraduate student.

- Developed and completed our own research project on the topic of Health Sciences, complete with a project poster.
- Gained experience with raw clinical data, research tools, and statistics.

### **Lloyd Auckland Invitational Mathematics Workshop / May 2019**

University of Waterloo, Waterloo, ON

- 5-day prestigious mathematics workshop with ~80 high school students across Canada.
- Participated in lectures and classes taught by Waterloo professors.
- Familiarized myself with faculty members of mathematics and computer science.

## **Education**

### **B.Sc. Honours in Computing Science / Fall 2020 - Present**

University of Alberta

- Expected graduation year: 2024
- Member of TeamUP Science
- Courses: Hons. Computing Science, Hons. Calculus, Linear Algebra

### **Old Scona Academic / 2017 - 2020**

- First Class honours in all 3 years
- President of the OSA Computing Society
- Exec of the OSA Math Club
- Received the Student Service award in grade 12

## **Volunteer Experience**

### **Church Youth Group Committee / Sep. 2018 - Apr. 2020**

- Planned and helped to lead events at Friday evening services.
- Organized activities for children camps
- Planned praise team practices and performances

### **Boardwalk Ice on Whyte / Jan. 2020 - Feb. 2020**

- Ice Chippers Booth: Taught people how to use a nail and chisel to carve their own ice sculptures
- Info Team: answered questions and guided clients to various locations around the event.

### **Neurosurgery Kids Fund / Nov. 2019**

- Volunteered via the Brain Care Awareness club in our school.
- Wrapped Christmas gifts for children affected by neurosurgery.

### **Teaching Assistant at Computing Contest Preparation Lessons / Sep. 2019 - Nov. 2019**

- Helped students learn various computer science contest concepts through Python.
- Prepared students for computing contests, especially the Canadian Computing Contest (CCC).
- 1.5 hours weekly for 3 months.

## **References**

### **Samir Rashid**

Kumon Ellerslie  
Unit 201 - 2330 Ellwood Drive SW  
Edmonton, AB, T6X0A9  
780-340-6018

### **Audrey Bondoc**

Volunteer Coordinator, Ice on Whyte  
[volunteer@iceonwhyte.ca](mailto:volunteer@iceonwhyte.ca)  
780-758-5878

### **Barnabas Wu**

Youth Group Counsellor  
[barn.wu@gmail.com](mailto:barn.wu@gmail.com)  
780-695-4947