

EDUCATION

Master of Mathematics (MMath), Computer Science

September 2021 - present

University of Waterloo; Waterloo, ON

- Thesis-based master's program co-supervised by Prof. Craig Kaplan and Prof. Daniel Vogel
- Focus in Human-Computer Interaction (HCI) and Computer Graphics (CG)

Bachelor of Science (BSc), Computer Science & Mathematics, Physics Minor

September 2017 - June 2021

Mount Allison University; Sackville, NB

- Graduated with first class honours and distinction, Dean's List throughout (GPA = 91%)

WORK EXPERIENCE

Research Intern

May 2021 - August 2021

Autodesk - Human-Computer Interaction Research Team; Toronto, ON

- Developed an ad hoc meeting scheduler using React, Node.js, MongoDB, and WebSockets
- Worked closely with Justin Matejka and the HCI team to design and improve the system

Research Assistant

May 2020 - September 2020

Computer Vision Project, Mount Allison University; Sackville, NB

- Generated structural priors using Python to improve the vision-based segmentation of web pages
- Presented research at Science Atlantic Conference for Mathematics & Computer Science (November 2020)
- Co-author for upcoming research publication

TEACHING EXPERIENCE

Teaching Assistant/Instructional Apprentice (TA/IA)

September 2021 - present

University of Waterloo; Waterloo, ON

- Marking assignments for introductory computer science courses
- Conducting labs and tutorials

Teaching Assistant, Computer Science & Mathematics

January 2019 - May 2021

Mount Allison University; Sackville, NB

- Supervised students during laboratory sessions, in-class activities, and midterms
- Marked lab submissions and assignments

Tutor

November 2018 - May 2021

Mount Allison University; Sackville, NB

- Conducted one-on-one tutoring sessions for computer science, mathematics, and physics courses
- Organized through the Meighen Centre, for students with documented disabilities, or through the English Academic Bridging program, for students with non-English backgrounds seeking academic assistance

AWARDS AND RECOGNITIONS

David R. Cheriton Graduate Scholarship

2021 - present

Awarded to top graduate students based on academic excellence and research potential

Top Student Scholar Award

2017

Awarded to one student per province with the highest grade 12 mid-term admissions average

L.A. Goodridge Scholarship

2017 - 2021

Awarded to one student per year level, with an interest in medicine

SKILLS

- Python, Java, JavaScript, CSS, C, C++, HTML, React, Node.js, Blender, Git
- Fluent in English & Mandarin
- 5+ Years of Artistic Training

LEADERSHIP EXPERIENCE

- **President**, Mathematics & Computer Science Society, Mount Allison University

May 2020 - May 2021

- **Executive Member**, MtA Hacks, Mount Allison University

September 2019 - March 2021

- **Lead Coordinator**, Science Success Course, Mount Allison University

September 2020 - November 2020