

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%)
- Studied abroad in Canterbury, England at the University of Kent

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 program

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

Marketing Research Assistant

May 2020 - September 2020

Naida Communications; Winnipeg, MB

- Conducted interviews, surveys, focus groups and other client research
- Assisted team members with sales, marketing, strategy and account management initiatives

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 and in-class activities
- Marked lab submissions and assignments
- Invigilated examination periods

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

Note Taker

January 2018 - May 2021

Mount Allison University; Sackville, NB

- Took comprehensive notes for every lecture and lab of specified courses
- Uploaded notes several times a week to the Meighen Centre, for students with documented disabilities

LEADERSHIP EXPERIENCE

President

May 2020 - May 2021

Mathematics & Computer Science Society, Mount Allison University; Sackville, NB

- Planned, promoted, and executed social and educational events for members of the society
- Represented the society at departmental meetings
- Ran executive meetings to discuss ideas and organize events with other members of the executive team

Executive Member

September 2019 - March 2021

MtA Hacks, Mount Allison University; Sackville, NB

- Helped organize and execute MtA Hacks, a computer science conference hosted by Mount Allison University
- Raised funds for the event by reaching out to potential sponsors

Lead Coordinator

September 2020 - November 2020

Science Success Course (START@MTA), Mount Allison University; Sackville, NB

- Led a 6-week program to help first year students with the transition into university study
- Organized and ran a weekly meeting to help 20 student leaders prepare for their sessions
- Developed additional curriculum for the program

Founder of E-Commerce Store

May 2020 - November 2020

- Sold 200+ items and gained over 10K followers in the first 3 months of business
- Individually sourced vintage and secondhand goods for sale
- Handled all inventory and shipping logistics

AWARDS AND RECOGNITIONS

David R. Cheriton Graduate Scholarship — \$10,000 per year

2021 - present

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

Top Student Scholar Award — \$2,000

2017

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

L.A. Goodridge Scholarship — \$4,000 per year

2017 - 2021

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

Dean's List

2017 - 2021

Recognition given to full-time students who have maintained a first-class average ($\geq 3.7/4.3$)

SKILLS

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|-----------|--------------|----------------------------------|
| ▪ Python | ▪ JavaScript | ▪ Blender |
| ▪ Java | ▪ Node.js | ▪ Git |
| ▪ React | ▪ CSS | ▪ Fluent in Mandarin and English |
| ▪ MongoDB | ▪ HTML | ▪ 5+ years of artistic training |