

DAVID BROMLEY

Toronto, ON

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EDUCATION

University of Toronto

09 2025 – Current

PhD in Computer Science

Master of Science in Computer Science

University of British Columbia

09 2018 – 04 2023

Combined Honours in Computer Science and Mathematics

with high distinction

EXPERIENCE

• University of Toronto:

• Graduate Researcher

September 2026 - Current

* Research computational imaging for science, in particular the imaging of black holes

• Teaching Assistant

September 2025 - Current

* Duties included teaching labs, providing office hours, and grading

• Computer Science (CSC) 311 - Introduction to Machine Learning

• CSC 369 - Operating Systems

• Connor, Clark & Lunn Investment Management:

• Quantitative Research Analyst

June 2023 - December 2023

* Designed and ran research projects using statistics to predict stock returns

• University of British Columbia:

• Teaching Assistant

September 2019 - April 2023

* Duties included teaching labs, providing office hours, and grading

• Computer Science (CPSC) 420 - Advanced Algorithms Design and Analysis

• CPSC 313 - Computer Hardware and Operating Systems

• CPSC 213 - Introduction to Computer Systems

• Math 110 - Differential Calculus

• Research Assistant

May 2022 - August 2022

* Science Undergraduate Research Experience (SURE) award funded research in the Computer Science Department in Formal Verification and Interpretable Machine Learning.

* Worked to express a state of the art interpretable machine learning algorithm in a programming language amenable to formal verification

• Research Assistant

May 2020 - August 2021

- * Natural Sciences and Engineering Research Council of Canada (NSERC) Undergraduate Student Research Awards (USRA) funded research for two summers in the Mathematics Department on Computational Biology
- * Designed a cell-scale model of B cell receptor mobility and clustering and fit model to experimental data via Bayesian methods
- **Research Assistant**
May 2019 - August 2019
 - * NSERC USRA funded research in Mathematics Department on Evolutionary Dynamics
 - * Designed and implemented simulations of novel evolutionary models and characterized their dynamics

SCHOLARSHIPS

- Ontario Graduate Scholarship 2025
Merit-based scholarship to Ontario's best graduate students in all disciplines of academic study
- Vector Scholarship in Artificial Intelligence 2024
Entrance scholarship awarded to top students pursuing AI master's in an Ontario university
- Stanley M Grant Scholarship in Mathematics 2022
Awarded on the recommendation of the Mathematics Department
- Stanley M Grant Scholarship in Mathematics 2021
Awarded on the recommendation of the Mathematics department
- Charles And Jane Banks Scholarship 2020
Awarded on the recommendation of the Faculty of Science
- Trek Excellence Scholarship 2020
Awarded for being in the top 5% of my undergraduate year, faculty, and school
- Dr M Wosk Environmental Leadership Award 2017
Award from the Metro Vancouver Regional Parks Foundation for leadership in environmental stewardship

VOLUNTEER WORK

- **Pacific Spirit Park Society:**
 - **Volunteer Program Leader**
2015 - 2018
 - * Leader of work groups involved in the ecological restoration of the park, which involves identifying the invasive plant to be removed, instructing volunteers in the proper method of removing the plant, and supervising the planting of indigenous species. At the time I was the youngest volunteer trained as a program leader.
- **Technical Theatre:**
 - **Technical Director or Sound Designer/Board Operator**
2015 - 2021
 - * Have led or supported the technical team for the productions of Grease: The Musical, Heathers: The Musical, 13: The Musical, Legally Blonde: The Musical, Pippin, and Chicago (cancelled due to Covid) as a part of the UBC Musical Theatre Troupe or high school productions

HOBBIES AND INTERESTS

Backpacking, Skiing, Scuba Diving, Current Affairs, Canadian Constitutional Law, Film Criticism