

KYLE BOWER

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EDUCATION

University of Toronto <i>Doctor of Philosophy, Mathematics</i>	Sep 2018 – Apr 2023
University of Toronto <i>Master of Science, Mathematics</i>	Sep 2017 – Aug 2018
University of British Columbia <i>Bachelor of Science, Honours Physics and Mathematics</i>	Sep 2013 – May 2017

WORK EXPERIENCE

Head Graduate Teaching Assistant <i>University of Toronto</i>	Sep 2017 – Present <i>Toronto, ON</i>
<ul style="list-style-type: none">· Developed a script to automatically assign 1,500+ students to tutorial sections. (Python)· Mentored 100+ students each term in weekly tutorials, held office hours, invigilated exams, and graded tests for undergraduate math courses.· Led orientation and regular training for aspiring and new teaching assistants.	
Cryptanalyst Summer Intern <i>Communications Security Establishment</i>	May 2017 – Aug 2017 <i>Ottawa, ON</i>
<ul style="list-style-type: none">· Performed cryptologic research, designed, developed, assessed, and attacked cryptographic algorithms and protocols to support Government of Canada Intelligence and Cyber Defense requirements.· Attended the Selected Areas in Cryptography Summer School at the University of Ottawa to learn about symmetric key, public key, and post-quantum cryptography.	
Undergraduate Student Researcher <i>Natural Sciences and Engineering Research Council of Canada</i>	May 2016 – Aug 2016 <i>Vancouver, BC</i>
<ul style="list-style-type: none">· Conducted independent research on the Min protein system involved in bacterial cell division under the supervision of Dr. Eric Cytrynbaum.· Simulated cell-scale biochemical reactions to capture the natural stochasticity of a biological cell. (Smoldyn)· Employed numerical methods to solve a system of partial differential equations that described the biochemical reactions occurring in the cell. (MATLAB/GNU Octave)	
Undergraduate Teaching Assistant <i>University of British Columbia</i>	Sep 2015 – Apr 2017 <i>Vancouver, BC</i>
<ul style="list-style-type: none">· Invigilated exams and graded tests for undergraduate math courses.	
Lifeguard/Swim Instructor <i>City of Richmond</i>	Nov 2013 – Apr 2017 <i>Richmond, BC</i>
<ul style="list-style-type: none">· Supervised patrons to ensure a safe and enjoyable aquatic environment.· Taught swimming and water safety to students of all ages and abilities.	

TECHNICAL STRENGTHS

Experience with Python, MATLAB, LaTeX, UNIX, Linux, GitHub.