

Ben Chugg

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EDUCATION	<p>M.Sc., Mathematics and the Foundations of Computer Science. <i>Expected 2019</i> The University of Oxford, United Kingdom. <i>Thesis:</i> The Graph-Simplex Correspondence and its Algorithmic Implications. <i>Supervisor:</i> Renaud Lambiotte.</p> <p>B.Sc., Combined Honours in Mathematics and Computer Science. 2018 The University of British Columbia, Canada. <i>Thesis:</i> A Model for Computing in Dynamic, Resource-Limited Environments. <i>Supervisor:</i> William Evans.</p>
AWARDS	<p>Mona Leith Memorial Scholarship 2018 Percy Walter Perris Scholarship 2018 Undergraduate Teaching Assistant Award (Computer Science) 2018 Shirley Snelgrove and John Yule Scholarship 2017 NSERC Undergraduate Student Research Award, Computer Science 2016, 2017 University of British Columbia Dean's list 2015 - 2018 University of British Columbia Chancellor Scholar</p>
PAPERS	<p>1. Submodular Stochastic Probing with Prices. With Takanori Maehara. <i>6th International Conference on Control, Decision, and Information Technologies, 2019.</i></p> <p>2. Output-Oblivious Stochastic Chemical Reaction Networks. With Anne Condon and Hooman Hashemi. Full paper in the <i>22nd International Conference on Principles of Distributed Systems</i>, 2018. Poster in the <i>24th International Conference on DNA Computing and Molecular Programming.</i></p> <p>3. Simultaneous Visibility Representations of Undirected Pairs of Graphs. With William Evans and Kelvin Wong. <i>In Preparation.</i></p>
EXPERIENCE	<p><i>Research Intern</i> June - August 2018 RIKEN Center for Advanced Intelligence Project, Tokyo. Member of the Discrete Optimization Unit, supervised by Dr. Takanori Maehara.</p> <p><i>Visiting Researcher</i> May 2018 The American University of Beirut (AUB), Lebanon. Hosted by Professor Abu Salem.</p> <p><i>NSERC Research Assistantship</i> 2016 - 2017 The Algorithms Lab, University of British Columbia</p> <ul style="list-style-type: none">• May '16-August '16, supervised by Professor William Evans. Worked on problems in computational geometry and geometric graph theory.• May '17-August '17, supervised by Professor Anne Condon. Worked in stochastic chemical reaction network theory. <p><i>President and Founder</i> 2016-2018 Code the Change UBC</p>

TEACHING	<p><i>Teaching Assistant and Peer Tutor</i> 2015 - 2018</p> <p>The University of British Columbia,</p> <ul style="list-style-type: none"> • Teaching Assistant for the computer science department for the courses CPSC 221: Basic algorithms and data structures, CPSC 320: Intermediate algorithm design and analysis, and CPSC 420: Advanced algorithm design and analysis. • Peer tutor for Access and Diversity in first and second year math, physics, and computer science courses.
TALKS	<ol style="list-style-type: none"> 1. <i>Submodular Stochastic Probing with Prices</i> April 2019 CODIT 2019, Paris, France. 2. <i>Output-Oblivious Stochastic Chemical Reaction Networks</i> December 2018 OPODIS 2018, Hong Kong, China. 3. <i>Unconstrained Submodular Maximization in MapReduce</i> June 2017 Canadian Undergraduate Computer Science Conference, Toronto, Canada.
COMMUNITY SERVICE	<p>Code Club Volunteer 2018 - Present</p> <p>President and co-founder of the Friends of Grace Orphan Care Society. 2014-2017 http://graceorphancare.org</p> <ul style="list-style-type: none"> • A registered society which serves as a non-profit to help Grace Orphan Care—a small, locally run organization in Malawi, Africa—move toward sustainability. <p>Science tutor at Kitsilano Secondary School 2015 - 2016</p> <p>Volunteer at CCIS (Calgary Catholic Immigration Society) 2012 - 2014</p> <p>SUVS Into the Streets - University of Calgary 2013 - 2014</p>
SKILLS	<p><i>Computational</i></p> <p>Languages: Familiarity with Python, C++, \LaTeX, C, and Java.</p> <p>Numerics and Optimization: Proficiency with Matlab. Familiar with Maple.</p> <p>Web: Familiar with HTML/5, CSS, Javascript (Node.js), Ruby on Rails, Django.</p> <p><i>Languages</i></p> <p>Fluent in English and French. Awarded the DELF (Diplôme d'études en langue française) certificate in 2012.</p>