

## Education

- University of British Columbia, *Combined Honours Computer Science and Mathematics, Science One* 2012-Present (Expected 2016)
- Kitsilano Secondary School, *French Immersion, Enriched Math + English* 2007-2012

## Awards and Scholarships

- Computer Science Scholarship 2015
- Shirley Snelgrove and John Yule Scholarship 2015
- Trek Excellence Scholarship for Continuing Studies 2013, 2014, 2015
- Reginald Palliser-Wilson Scholarship 2014, 2015
- Daniel Buchanan Scholarship in Mathematics 2015
- 1<sup>st</sup> Place, Undergraduate Category of ACM SRC at ICSE 2015 2015
- NSERC Undergraduate Student Research Award 2014, 2015
- Honourable Mention, CRA Outstanding Undergraduate Female Researcher Award for PhD-granting institutions 2015
- Maureta Evelyn McDonald Memorial Scholarship 2014
- Charles and Jane Banks Scholarship 2013
- Janusz J Klawe Memorial Science One Scholarship 2012
- Chancellor's Scholar Award 2012
- Graduation Program Examinations Scholarship 2012
- Fiat Lux Gold Scholarship (*highest academic standing in graduating class*) 2012
- Science Achievement Award Scholarship 2012
- Myron Moxley Memorial Scholarship 2012
- Passport to Education 2010-2012
- Waterloo Certificate of Distinction: *Euclid, Fermat, Cayley, Pascal Contests* 2009-2012
- Kitsilano Secondary School Academic Awards: *English 12, Literature 12, Biology 12 (2012); English 11, French Immersion Social Studies 11 (2011); Junior Honour Award, Spanish 11, Photography 11, F.I. Social Studies 10, English 10 (2010); F.I. Science 9 (2009); F.I. Science 8 (2008); Top Scholar (2008-2011).*

## Work Experience

- Research Assistant (USRA), *working with Ivan Beschastnikh at UBC.* 2014, 2015  
*Developed the LTL specification mining tool Texada, which can mine satisfying event bindings for LTL formulae of arbitrary length and size. Also evaluated the tool and co-wrote two papers describing the tool (see publications). Developed first prototype of Quarry tool.*
- UBC Undergraduate Academic Assistant, *working on Systematic Program Design (Coursera) Course Material under Gregor Kiczales* 2013-2014
- UBC Undergraduate Teaching Assistant, CPSC 110 2013
- Math Tutor 2010-2011
- Community Service Student (*High School Teaching Assistant*) 2010-2011

### Volunteer Experience

- President, UBC Activists for Animals Club 2014-2015
- Research Assistant, *working with Ivan Beschastnikh at UBC.* 2014  
*Expanded functionality of the InvariMint tool implementation to allow for more flexibility in algorithm specification, a central proposal of the InvariMint method.*
- Treasurer, UBC Activists for Animals Club 2013-2014
- Secretary, Kitsilano Secondary School Student Council 2011-2012
- Junior Team Coach, Reach for the Top 2010-2011
- Kitsilano Secondary School Link Crew Leader 2010
- Youth Olympic Volunteer Performer 2009-2010

### Publications

- Caroline Lemieux, Dennis Park and Ivan Beschastnikh. General LTL Property Mining. In *Proceedings of the 30<sup>th</sup> International Conference on Automated Software Engineering, ASE 2015*, Lincoln, USA.
- Caroline Lemieux and Ivan Beschastnikh. Investigating Program Behavior Using the Texada LTL Specifications Miner. In *Proceedings of the 30<sup>th</sup> International Conference on Automated Software Engineering, ASE 2015*, Lincoln, USA. (Tool Demonstration Track)
- Caroline Lemieux. Mining Temporal Properties of Data Invariants. In *Proceedings of the 37<sup>th</sup> International Conference on Software Engineering, ICSE 2015*, Florence, Italy. (ACM SRC Research Abstract)

### Computer Skills

- Languages: Java, C++, C, JavaScript, Python, Racket, HtDP teaching languages
- Advanced Photo Editing, Video Editing, Word Processing, LaTeX, Spreadsheet Usage

### Languages

- French (Fluent), English (Fluent), Spanish (Basic)