Caroline Lemieux

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Education

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

Awards and Scholarships

- Trek Excellence Scholarship for Continuing Studies — 2013, 2014, 2015
- Reginald Palliser-Wilson Scholarship — 2014, 2015
- Daniel Buchanan Scholarship in Mathematics — 2015
- PLMW at ICFP Scholarship Award — 2015
- 1st Place, Undergraduate Category of ACM SRC at ICSE 2015 — 2015
- SIGSOFT CAPS Grant for 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 on Texada under Ivan Bestchastnikh* — 2014, 2015
  Developed the LTL specification mining tool Texada, which can mine satisfying event bindings for LTL formulae or arbitrary length and size. Also evaluated and co-wrote a paper describing the tool. (see publications)
- 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 on InvariMint under Ivan Bestchastnikh.* — 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

Papers/Publications

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