Caroline Lemieux

caro.lemieux@gmail.com   carolemieux.github.io

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
• 1st 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. 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.*	2014, 2015
• 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

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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 30th 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 30th 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 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)