Caroline Lemieux

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Education

University of California, Berkeley

2016-Present

Ph.D. in Computer Science

University of British Columbia

2012-2016

B.Sc. in Combined Honours Computer Science and Mathematics

Graduated with highest standing in Faculty of Science (Governor General's Silver Medal)

Publications

- [1] Proceedings of the 30th International Conference on Automated Software Engineering (ASE), November 2015. (Main Technical Track)
- [2] pdf Caroline Lemieux, Ivan Beschastnikh. *Investigating Program Behavior Using the Texada LTL Specifications Miner.* In Proceedings of the 30th International Conference on Automated Software Engineering (ASE), November 2015. (Tool Demonstration Track)
- [3] Caroline Lemieux. Mining Temporal Properties of Data Invariants. In Proceedings of the 37th International Conference on Software Engineering (ICSE), May 2015. (ACM SRC Research Abstract; won 1st place in Undergraduate Category)

Experience

Research Assistant (USRA)

2014, 2015

Worked with Ivan Beschastnikh at UBC. Developed the general Linear Temporal Logic (LTL) specification mining tool Texada and the data-temporal property mining tool Quarry. Contributed significantly to the writing of the main techincal track paper on Texada [1] and wrote nearly all the first draft of the tool demo paper [2], as well as the SRC abstract on Quarry[3].

Research Assistant (Volunteer)

2014

Worked with Ivan Beschastnikh at UBC. Expanded functionality of the InvariMint tool implementation to allow for more flexibility in algorithm specification.

Undergraduate Academic Assistant

2013-2014

Worked with Gregor Kiczales at UBC. Video lecture editor and online teaching assistant (participated in student forums, developed peer-graded problems) for the Coursera offerings of Introduction to Systematic Program Design.

Undergraduate Teaching Assistant

2013

In-class teaching assistant for CPSC 110 (UBC's introductory computer science course) taught by Meghan Allen.

Awards and Scholarships

International Finalist, CRA Outstanding Undergraduate Researcher Award 1st Place Undergraduate, ACM Student Research Competition at ICSE 2015 Honorable Mention, CRA Outstanding Undergraduate Researcher Award	2016 2015 2015
National NSERC CGS D (declined) NSERC Undergraduate Student Research Award (supervisor: Ivan Beschastnikh) 2014	2016 1, 2015
Institutional - UCB Berkeley Fellowship for Graduate Study EECS Excellence Award	2016 2016
Institutional - UBC	
Governor General's Silver Medal (best in the graduating class for the B.Sc. degree) Markus Meister Memorial Prize in Computer Science	2016 2016
G C Webber Memorial Prize Computer Science Scholarship Shirley Snelgrove and John Yule Scholarship	2016 2015 2015
Trek Excellence Scholarship for Continuing Studies 2013, 2014	
Daniel Buchanan Scholarship in Mathematics (highest standing in Honours Math) Maureta Evelyn McDonald Memorial Scholarship	2015 2014
Charles and Jane Banks Scholarship Janus J Klawe Memorial Science One Scholarship Character's Scholar Avand	2013 2012
Chancellor's Scholar Award	2012

Software

Texada

Tool for inferring LTL program specifications from traces of system behavior.

Code: https://bitbucket.org/bestchai/texada/ Demo: http://bestchai.bitbucket.org/texada/

Computer Skills

Experienced: Java, C++, HtDP Teaching Languages, LATEX

Intermediate: C, Python, JavaScript

Basic: Racket

Languages

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