

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] [pdf](#) Caroline Lemieux, Dennis Park, Ivan Beschastnikh. *General LTL Specification Mining*. In 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] [pdf](#) 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 technical 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	2016
1 st Place Undergraduate, ACM Student Research Competition at ICSE 2015	2015
Honorable Mention, CRA Outstanding Undergraduate Researcher Award	2015

National

NSERC CGS D (declined)	2016
NSERC Undergraduate Student Research Award (supervisor: Ivan Beschastnikh)	2014, 2015

Institutional - UCB

Berkeley Fellowship for Graduate Study	2016
EECS Excellence Award	2016

Institutional - UBC

Governor General's Silver Medal (best in the graduating class for the B.Sc. degree)	2016
Markus Meister Memorial Prize in Computer Science	2016
G C Webber Memorial Prize	2016
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 (highest standing in Honours Math)	2015
Maureta Evelyn McDonald Memorial Scholarship	2014
Charles and Jane Banks Scholarship	2013
Janus J Klawe Memorial Science One Scholarship	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, L^AT_EX

Intermediate: C, Python, JavaScript

Basic: Racket

Languages

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