

Laura Inozemtseva  
Curriculum vitae  
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EDUCATION

**Ph.D., Computer Science**

2016 Department of Computer Science, University of Waterloo  
Thesis: Software Faults and the Fault Introduction Process  
Supervisor: Reid Holmes

**M.Math., Computer Science**

2012 Department of Computer Science, University of Waterloo  
Thesis: Predicting Test Suite Effectiveness for Java Programs  
Supervisor: Reid Holmes

**B.Sc.Eng., Computer Engineering**

2010 Department of Electrical and Computer Engineering, Queen's University  
Capstone: Designing and Implementing a Programmable Packet Processing Engine in an FPGA  
Supervisor: Ahmad Afsahi

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PUBLICATIONS

**Conference Proceedings**

- 2015 **Laura Inozemtseva**. Understanding the Software Fault Introduction Process. In *Proceedings of the International Conference on Software Engineering, Doctoral Symposium Track*, 2015. Acceptance rate: 25/62 (40%).
- 2014 René Just, Darioush Jalali, **Laura Inozemtseva**, Michael D. Ernst, Reid Holmes and Gordon Fraser. Are Mutants a Valid Substitute for Real Faults in Software Testing? In *Proceedings of the Symposium on the Foundations of Software Engineering*, 2014. Acceptance rate: 61/273 (22%). **ACM Distinguished Paper Award.**
- 2014 **Laura Inozemtseva**, Siddharth Subramanian, and Reid Holmes. Integrating Software Project Resources Using Source Code Identifiers. In *Proceedings of the International Conference on Software Engineering, New Ideas and Emerging Results Track*, 2014. Acceptance rate: 35/146 (24%).
- 2014 **Laura Inozemtseva** and Reid Holmes. Coverage is Not Strongly Correlated with Test Suite Effectiveness. In *Proceedings of the International Conference on Software Engineering*, 2014. Acceptance rate: 99/466 (21%). **ACM Distinguished Paper Award.**
- 2014 Siddharth Subramanian, **Laura Inozemtseva**, and Reid Holmes. Live API Documentation. In *Proceedings of the International Conference on Software Engineering*, 2014. Acceptance rate: 99/466 (21%).
- 2013 **Laura Inozemtseva**, Hadi Hemmati, and Reid Holmes. Using Fault History to Improve Mutation Reduction. In *Proceedings of the Symposium on the Foundations of Software Engineering, New Ideas Track*, 2013. Acceptance rate: 12/33 (36%).

**Book Chapters**

- 2014 **Laura Inozemtseva**, Reid Holmes, and Robert Walker. Recommendations in the Small. *Recommendation Systems in Software Engineering*. Ed. Martin Robillard, Walid Maalej, Robert Walker and Thomas Zimmermann. Springer, 2014.

**Manuscripts in Preparation**

- Laura Inozemtseva**, Urs Hengartner and Reid Holmes. Machine Learning: A Silver Bullet for Android Malware Detection? Targeting the *IEEE Symposium on Security and Privacy*, 2015.
- Ashar Ghani, Ravi Chandra M., **Laura Inozemtseva**, Haroon Malik, and Reid Holmes. Selective, Feedback-Directed Continuous Testing. Targeting the *Symposium on the Foundations of Software Engineering*, 2015.

**AWARDS AND HONOURS**

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- 2015 Murray Martin Prize (\$5,000)
- 2015 Microsoft Research PhD Fellowship (\$64,000 plus two years' tuition)
- 2014 Cheriton Graduate Scholarship (\$20,000)
- 2014 Ontario Graduate Scholarship (\$15,000)
- 2014 President's Graduate Scholarship (\$10,000)
- 2013 Graduate Excellence Award (\$5,000)
- 2013 Invited to attend the Future of Software Engineering Symposium; my attendance was funded by the National Science Foundation
- 2012 Queen Elizabeth II Graduate Scholarship in Science and Technology (\$5,000)
- 2012 Provost Doctoral Entrance Award for Women (\$5,000)
- 2012 Graduate Entrance Scholarship (\$5,000)

**SERVICE TO PROFESSION**

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- 2015 Program committee member for the 2015 Conference on Mining Software Repositories
- 2014 Program committee member for the 2014 Conference on Object-Oriented Programming Systems, Languages, and Applications (OOPSLA) Artifact Evaluation Committee
- 2014 Publicity chair for the 2014 International Workshop on Data Analysis Patterns in Software Engineering
- 2014 Program committee member for the 2014 International Workshop on Recommendation Systems for Software Engineering
- 2013 Subreviewer for the 2014 Working Conference on Reverse Engineering (1 paper)
- 2013 Produced the program for the 2013 International Conference on Software Engineering with Reid Holmes and Dirk Beyer
- 2013 Subreviewer for the 2013 Object-Oriented Programming Systems, Languages and Applications conference (2 papers)
- 2013 Subreviewer for the 2013 Working Conference on Mining Software Repositories (2 papers)

## TEACHING EXPERIENCE

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Teaching Assistant: Software Design and Architecture (CS 446, University of Waterloo) (3 years)

Teaching Assistant: Concurrent and Parallel Programming (CS 343, University of Waterloo)

Teaching Assistant: Data Structures and Data Management (CS 240, University of Waterloo)

Instructional Assistant: Introduction to Computer Usage (CS 100, University of Waterloo)

Teaching Assistant: Introduction to Computer Science 2 (CS 116, University of Waterloo)

Teaching Assistant: Introduction to Computer Programming for Engineers (APSC 142, Queen's University) (4 years)

Teaching Assistant: Introductory Physics (PHYS 107, Queen's University)

## PROFESSIONAL MEMBERSHIPS/AFFILIATIONS

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IEEE member since 2011

SIGSOFT member since 2014