

# Federico Mora

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## RESEARCH INTERESTS

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I am interested in the automated verification and construction of programs and proofs. My research focuses on logic, programming languages, and software engineering.

## EDUCATION

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- June 2018    **M.Sc. Computer Science**  
Supervised by Marsha Chechik  
University of Toronto
- June 2016    **B.Sc. Computer Science and Mathematics**  
First Class Honours with Distinction  
Mount Allison University

## PUBLICATIONS

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- [1] **Federico Mora**, Yi Li, Julia Rubin, and Marsha Chechik. Client-Specific Equivalence Checking. In *Automated Software Engineering (ASE)*, pages 441–451, 2018.
- [2] Dmitry Blotsky, **Federico Mora**, Murphy Berzish, Yunhui Zheng, Ifaz Kabir, and Vijay Ganesh. StringFuzz: A Fuzzer for String Solvers. In *Computer Aided Verification (CAV)*, pages 45–51, 2018.

## RESEARCH POSITIONS

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- 2016-19    **Research Assistant, University of Toronto**  
Software Engineering Research Lab  
Supervised by Marsha Chechik
- 2017       **Research Intern, General Motors**  
Electronic Control Systems Lab  
Supervised by Ramesh S
- 2015-16    **Research Assistant, University of Saskatchewan**  
Numerical Simulation Lab  
Supervised by Raymond Spiteri
- 2014-15    **Research Assistant, Mount Allison University**  
Entity Attribute Sketch Implementation Kit (EASIK)  
Supervised by Robert Rosebrugh

## TEACHING POSITIONS

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- Current    **Head Teaching Assistant, University of Toronto**  
CSC 410: Software Testing and Verification
- 2016-18    **Teaching Assistant, University of Toronto**  
CSC 324: Principles of Programming Languages  
CSC 384: Introduction to Artificial Intelligence (2)  
CSC 410: Software Testing and Verification
- 2015-16    **Teaching Assistant, Mount Allison University**  
COMP 1631: Introduction to Computer Science

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## PROFESSIONAL SERVICE

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Ongoing	<b>Volunteer</b> Waterloo Summer School on Machine Learning, Verification, and Security (Aug. '19)
2017-18	<b>External Reviewer</b> Automated Software Engineering (ASE '17, '18) Computer Aided Verification (CAV '18) International Joint Conference on Automated Reasoning (IJCAR '18) Symposium on the Foundations of Software Engineering (FSE '17)

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## MENTORING AND SUPERVISION

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Nick Feng (M.Sc.)	Client-Specific Equivalence Checking of Multi-threaded Programs
Alex Tough (B.Sc.)	Client-Specific Equivalence Checking of LLVM Programs

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## AWARDS AND DISTINCTIONS

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2018	C. C. Gotlieb (Kelly) Graduate Fellowship
2016-18	University Of Toronto Fellowship, Faculty Of Arts And Science
2017	Alfred B. Lehman Graduate Scholarship
2015-16	Allison (A.F.D) Calvert Memorial Award
2012-15	R.G.G Wilkinson Scholarship
2015	3rd Place Presentation, Science Atlantic Computer Science Conference
2014	4th Place Presentation, Science Atlantic Computer Science Conference
2011-14	Dean's List Standing
2011-12	Governor Thomas Carleton Scholarship

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## SUMMER SCHOOLS AND WORKSHOPS ATTENDED

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July 2018 Oxford, UK	<b>Verification and Deduction Mentoring Workshop</b> Awarded 2018 Federated Logic Conference (FLoC '18) Travel Stipend to attend
July 2018 Manchester, UK	<b>International Summer School on SAT, SMT, and Automated Reasoning</b> Awarded SAT/SMT/AR Summer School Grant to attend

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## NON-ACADEMIC

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Languages	English (native), Spanish (native), and French (basic).
Certificates	Canadian Soccer Association community coaching: "Active Start" (ages 4-6), "Fundamentals" (ages 6-9), and "Learning to Train" (ages 8-12).
Awards	Canadian Interuniversity Sport Academic All-Canadian (4); Jack Drover Athletics Award (2); David MacArel MacAulay Award (2); Mount Allison men's varsity soccer team captain (2); Soccer New Brunswick Male Bursary Award (1); and New Brunswick provincial soccer team captain (1).