Federico Mora

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RESEARCH INTERESTS

I am interested in applied logic, programming languages, and verification.

EDUCATION

Present	**Ph.D. Computer Science** Advised by Sanjit A. Seshia University of California, Berkeley
June 2018	**M.Sc. Computer Science** Advised by Marsha Chechik University of Toronto
June 2016	**B.Sc. Computer Science and Mathematics** First Class Honours with Distinction Mount Allison University

CONFERENCE RESEARCH PUBLICATIONS

[1] **F. Mora**, Y. Li, J. Rubin, and M. Chechik, "Client-specific Equivalence Checking," in *International Conference on Automated Software Engineering (ASE)*, 2018.

WORKSHOP AND SHORT PUBLICATIONS

[2] D. Blotsky, **F. Mora**, M. Berzish, Y. Zheng, I. Kabir, and V. Ganesh, "StringFuzz: A Fuzzer for String Solvers," in *Computer Aided Verification (CAV)*, 2018.

[3] **F. Mora**, K. Cheang, E. Polgreen, and S. Seshia, "Synthesis in Uclid5," in *Workshop on Synthesis (SYNT)*, 2020.

[4] J. Scott, **F. Mora**, and V. Ganesh, "BanditFuzz: A Reinforcement-Learning based Performance Fuzzer for SMT Solvers (Presentation Only)," in *Workshop on Satisfiability Modulo Theories (SMT)*, 2020.

RESEARCH POSITIONS

2020	**Applied Scientist Intern, Amazon** AWS Automated Reasoning Group Supervised by Ankush Desai
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

2018	**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

Professional Service

2020	**Co-organizer**
	Berkeley Programming Systems Summer Seminar Series

2019	**Volunteer**
	Waterloo Machine Learning, Verification, and Security Workshop

2017-18	**External Reviewer**
	Automated Software Engineering (ASE '17, '18, '19)
	Computer Aided Verification (CAV '18)
	International Joint Conference on Automated Reasoning (IJCAR '18)
	Symposium on the Foundations of Software Engineering (FSE '17)

Mentoring

Murad Akhundov	"Expediting Verification of Assertions in Loops by Isolation"
	Winner of the POPL '20 Undergraduate Student Research Competition

Awards and Distinctions

2018	C. C. Gotlieb (Kelly) Graduate Fellowship
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

Summer Schools and Workshops Attended

July 2018	**Verification and Deduction Mentoring Workshop**
Oxford, UK	Awarded 2018 Federated Logic Conference (FLoC '18) Travel Stipend to attend

July 2018	**International Summer School on SAT, SMT, and Automated Reasoning**
Manchester, UK	Awarded SAT/SMT/AR Summer School Grant to attend

Non-Academic

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).