NICK FENG

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RESEARCH INTEREST

PhD. Computer Science

I am a PhD student at the University of Toronto in the Software Engineering group. I'm interested in automated verification, SAT, and software engineering.

May 2020- Present

EDUCATION

Supervised by Marsha Chechik University of Toronto	May 2020- I Tesent
M.Sc. Computer Science Supervised by Marsha Chechik University of Toronto	Sept 2018- April 2020
B.Sc. Computer Science Received Honours degree with high distinction University of Toronto	Sept 2012 - May 2017
PUBLICATIONS	
Early Verification of Legal Compliance via Bounded Satisfiability Che N. Feng, L.Marsoo, M.Sabetzadeh, M.Chechik	ecking CAV 2023
Towards a Formal Framework for Normative Requirements Elicitation N. Feng, L.Marsoo, S. Yaman, B. Townsend, A. Cavalcanti, R. Calinescu, M.Che	
Code-Level Functional Equivalence Checking of Annotative Software Production A. Wang, N. Feng, M.Chechik	ct Lines SPLC 2023
Verification by Gambling on Program Slices M. Akhundov, F. Mora, N. Feng, V. Hui, M. Chechik	AVTA 2021
Scaling Client-Specific Equivalence Checking via Impact Boundary Search N. Feng, F. Mora, V. Hui, and M. Chechik	ASE 2020
Clause Size Reduction with all-UIP Learning	SAT 2020

AWARD AND SERVICES

N. Feng, F. Bacchus

Amazon Research Award 2021: Unsatisfiability proofs for monotonic theories

Co-reviewed research papers for Software Engineering and Formal Methods:

- The ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE) 2023
- International Conference on Formal Engineering Methods (ICFEM) 2023

- International Conference on Fundamental Approaches to Software Engineering (FASE) 2023
- the IEEE/ACM International Conference on Software Engineering (ICSE) 2023
- The ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE) 2022

INDUSTRIAL RESEARCH EXPERIENCE

Applied Scientist Intern, Amazon AWS Automated Reasoning Group	2021
Applied Scientist Intern, Amazon AWS Automated Reasoning Group	2022

SUMMER/WINTER SCHOOLS AND COMPETITIONS

Cadical-trail and Cadical-alluip-trail won the planning track at the SAT Competition 2020 R. Hickey, N. Feng, F. Bacchus

Summer School Marktoberdorf 2023 on Safety and Security through Formal Verification August 2023, Marktoberdorf

International Winter School on Verification, Model Checking, and Abstract Interpretation January 2020, New Orleans