## Anton Xue

Address Levine Hall, 3330 Philadelphia, PA	Walnut St.	Contact antonxue@seas.upenn.edu antonxue.github.io
Interests	Dynamical systems, programming languages, formal methods Mathematical analysis, linear algebra, combinatorics	
Education	Ph.D. Computer and Information Science University of Pennsylvania	08/2019 – Present
	B.S. Mathematics (Intensive) and Computer Science Yale University	08/2015 - 05/2019
Work Experience	Research Intern Nokia Bell Labs	06/2019 - 08/2019
	Research Assistant Yale University Department of Computer Science	09/2015 - 05/2019
	Research Intern Harvard John A. Paulson School of Engineering and Applied	05/2018 - 08/2018 Sciences
	Research Intern Max Planck Institute for Software Systems	05/2017 - 08/2017
	Software Engineering Intern Harvard Medical School	05/2014 - 08/2015
Awards and Honors	University of Pennsylvania ENIAC Fellowship	08/2019
	Yale Computer Science Award	05/2019
	National Science Foundation Graduate Research Fellowship	04/2019
	Yale College Freshman Summer Research Fellowship	04/2016
Conference Publications	Lazy Counterfactual Symbolic Execution PLDI 2019	06/2019
Workshop Publications	G2Q: Haskell Constraint Solving Haskell Symposium 2019	08/2019
Presentations	Towards a Self-Certifying Compiler for WebAssembly IBM Programming Language Day 2019	12/2019
	Towards a Self-Certifying Compiler for WebAssembly FMCAD 2019 Student Forum	10/2019
	Towards the Formalization and Analysis of $R$ FMCAD 2018 Student Forum	11/2018

	Building a Symbolic Execution Engine for Haskell FMCAD 2017 Student Forum	11/2017
	Building a Symbolic Execution Engine for Haskell TAPAS 2017	08/2017
	A Symbolic Execution Framework for Haskell POPL 2017 Student Research Competition	01/2017
Teaching	Yale Undergraduate Teaching Assistant 09/2016 – 05/2019 MATH 305 Real Analysis (Course Grader), Spring/2019 CPSC 202 Mathematical Tools for Computer Science, Fall/2016, Fall/2017, Fall/2018 CPSC 366 Intensive Algorithms, Spring/2018 CPSC 365 Design and Analysis of Algorithms, Spring/2017 Yale University	
Community	Head Student Volunteer CAV 2019	07/2019
	Student Volunteer PLDI 2019	06/2019
	Department Student Advisory Committee Yale University Computer Science Department	08/2017 - 05/2018
	Student Volunteer CAV 2017	07/2017
Software	G2 Symbolic Execution Engine for Haskell https://github.com/BillHallahan/G2	
	Simple-R Symbolic Execution Engine for R https://github.com/AntonXue/simple-r	
	Multi-Terminal Interval Decision Diagrams https://github.com/dzufferey/mtidd	
Technical	Programming Languages Haskell, C, Python, Java, R, Scala, C++, SMTLIB, LATEX	