Anton Xue

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Interests	Dynamical systems, programming languages, formal methods	
	Mathematical analysis, linear algebra, combinatorics	
Education	*Ph.D. Computer and Information Science*	08/2019 – Present
	University of Pennsylvania	
	B.S. Mathematics (Intensive) and Computer Science	08/2015 – 05/2019
	Yale University	
Work Experience	*Research Intern*	06/2019 – 08/2019
	Nokia Bell Labs	
	Research Assistant	09/2015 – 05/2019
	Yale University Department of Computer Science	
	Research Intern	05/2018 – 08/2018
	Harvard John A. Paulson School of Engineering and Applied Sciences	
	Research Intern	05/2017 – 08/2017
	Max Planck Institute for Software Systems	
	Software Engineering Intern	05/2014 – 08/2015
	Harvard Medical School	
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*	06/2019
	PLDI 2019	
Workshop Publications	*G2Q: Haskell Constraint Solving*	08/2019
	Haskell Symposium 2019	
Presentations	*Towards a Self-Certifying Compiler for WebAssembly*	12/2019
	IBM Programming Language Day 2019	
	Towards a Self-Certifying Compiler for WebAssembly	10/2019
	FMCAD 2019 Student Forum	
	Towards the Formalization and Analysis of R	11/2018
	FMCAD 2018 Student Forum	

	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* 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	09/2016 – 05/2019
Community	*Artifact Evaluation Committee* PLDI 2020	03/2020
	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	