Anton Xue

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Interests	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 Sciences	05/2018 – 08/2018
	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 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	01/2017
	POPL 2017 Student Research Competition	

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*	07/2019
	CAV 2019	
	Student Volunteer	06/2019
	PLDI 2019	
	Department Student Advisory Committee	Fall/2017, Spring/2018
	Yale University Computer Science Department	
	Student Volunteer	07/2017
	CAV 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, C++, Python, Java, R, Scala, SMTLIB, LaTeX