Anton Xue

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Contact
`antonxue.github.io`
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Interests	Programming languages, formal methods, automata theory, cyber-physical systems mathematical analysis, linear algebra, combinatorics	
Work Experience	*Research Intern* Nokia Bell Labs	06/2019 – Present
	Research Assistant Yale University Department of Computer Science	09/2015 – 05/2019
	Research Intern Harvard University School of Engineering and Applied Sciences	05/2018 – 08/2018
	Research Intern Max Planck Institute for Software Systems	05/2017 – 08/2017
Education	*B.S. Mathematics and Computer Science* Yale University	08/2015 – 05/2019
Awards and Honors	Yale Computer Science Award, 2019	
	National Science Foundation Graduate Research Fellowship, 2019	
	Yale College Freshman Summer Research Fellowship, 2016	
Conference Publications	*Lazy Counterfactual Symbolic Execution*, PLDI 2019	
Conference Presentations	*Towards the Formalization and Analysis of R*, FMCAD 2018 Student Forum	
	Building a Symbolic Execution Engine for Haskell, FMCAD 2017 Student Forum	
	Building a Symbolic Execution Engine for Haskell, TAPAS 2017	
	A Symbolic Execution Framework for Haskell, POPL 2017 Student Research Competition	
Teaching	*Yale Undergraduate Teaching Assistant* MATH 305 Real Analysis, Spring/2019 (Course Grader) 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	*Department Student Advisory Committee* Yale University Computer Science Department, Fall/2017, Spring/2018	

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