## Anton Xue

Address 17 Broadway 2L New Haven, CT		Contact antonxue.github.io anton.xue@yale.edu
Interests	Programming languages, formal methods 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 John A. Paulson School of Engineering and Applied Science	05/2018 - 08/2018 ees
	Research Intern Max Planck Institute for Software Systems	05/2017 - 08/2017
	Software Engineering Intern Harvard Medical School	05/2014 - 08/2015
Education	B.S. Mathematics and Computer Science Yale University	08/2015 - 05/2019
Awards and Honors	University of Pennsylvania ENIAC Fellowship	08/2019
Honors	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 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

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, I⁴TEX