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 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 | $A\ Self\mbox{-}Certifying\ Compilation\ Framework\ for\ WebAssembly\ VMCAI\ 2021$ | 11/2020 |
| | 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 | |
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| | 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 | Teaching Assistant 05/2020 - CIS 515 Fundamentals of Linear Algebra and Optimization, Fall/2020 CIS 160 Mathematical Foundations of Computer Science, Summer/2020 University of Pennsylvania | | |
| | Teaching Assistant | 09/2016 - 05/2019 | |
| | MATH 305 Real Analysis (Course Grader), Spring/2019 CPSC 202 Mathematical Tools for Computer Science, Fall/2016, I CPSC 366 Intensive Algorithms, Spring/2018 CPSC 365 Design and Analysis of Algorithms, Spring/2017 Yale University | , | |
| 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 | $Self-Certified\ Optimizer\ for\ Web Assembly \\ \texttt{https://github.com/nokia/web-assembly-self-certifying-compilation-framework}$ | | |
| | 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 | | |