Anton Xue

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Contact
`antonxue.github.io`
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Interests Programming languages, formal methods, automata theory, mathematical analysis, linear algebra, combinatorics

Experience

Research Assistant   Sept 2015 – Present
Yale University Computer Science Department

Research Intern   May 2018 – Aug 2018
Harvard University School of Engineering and Applied Sciences

Research Intern   May 2017 – Aug 2017
Max Planck Institute for Software Systems

Education

B.S. Mathematics and Computer Science   Sept 2015 – May 2019
Yale University

Presentations

Towards the Formalization and Analysis of R (to appear)   Oct 2018
Formal Methods in Computer-Aided Design 2018 Student Forum

Building a Symbolic Execution Engine for Haskell   Aug 2017
Tools for Automatic Program Analysis 2017

A Symbolic Execution Framework for Haskell   Jan 2017
Principles of Programming Languages 2017 Student Research Competition

Teaching

Yale Undergraduate Teaching Assistant
CPSC 366: Intensive Algorithms   Spring 2018
CPSC 365: Design and Analysis of Algorithms   Spring 2017
CPSC 202: Mathematical Tools for Computer Science   Fall 2016, Fall 2017, Fall 2018

Community

Department Student Advisory Committee   Fall 2017 – Spring 2018
Yale University Computer Science Department

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, LaTeX