

Curriculum Vitae of *Nathan Mull*

Contact Information

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Research Interests

- Type Theory
- Categorical Logic
- SAT solvers and Proof Complexity

Education

- University Of Chicago
 - Fifth-Year PhD Student
 - M.S. in Computer Science. **CDCL SAT Solvers, Subsystems of Resolution, and the Ordered Decision Strategy**, Winter 2020
- University of California at Berkeley
 - B.A. in Pure Mathematics with Honors, Spring 2016
 - B.A. in Computer Science, Spring 2016

Research

- Nathan Mull, Shuo Pang, and Alexander Razborov. **On CDCL-based Proof Systems with the Ordered Decision Strategy**. In the Proceedings of the 23rd International Conference on Theory and Applications of Satisfiability Testing (SAT), 2020.
- Nathan Mull, Daniel J. Fremont, and Sanjit A. Seshia. **On the Hardness of SAT with Community Structure**. In the Proceedings of the 19th International Conference on Theory and Applications of Satisfiability Testing (SAT), 2016.

Awards

- GAANN Fellowship, awarded by the Computer Science Department at the University of Chicago, 2016

Teaching Experience

- Instructor, University of Chicago
 - CMSC 10500, Fundamentals of Computer Programming I, {Summer 2021, Summer 2020, Summer 2019, Summer 2018}
- Teaching Assistant, University of Chicago
 - CMSC 22500, Type Theory, {Spring 2021, Spring 2020}
 - CMSC 22400/32400, Programming Proofs, Winter 2021
 - CMSC 16100, Honors Introduction to Programming I, {Fall 2020, Fall 2019, Fall 2018}
 - CAPP 30271, Mathematics for Computer Science and Data Analysis, Winter 2020
 - CMSC 22300, Functional Programming, Spring 2019
 - CMSC 25300, Mathematical Foundations of Machine Learning, Winter 2019
 - MPCS 53111, Machine Learning, Spring 2018
 - CMSC 27200, Theory of Algorithms, Winter 2018
 - CMSC 27130, Honors Discrete Mathematics, Fall 2017