RUSHIL MALLARAPU

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Published Researcher | Winner at CT Science Fair | Harvard Student

An author on two scientific papers, winner of Computer Science award at CT Science and Engineering Fair, and researcher in computer science, chemistry, economics, and mathematics.

Education

Experience

Harvard University

Mathematics and Statistics, 4.0/4.0

- Math 55, Math 99R, Math 231BR, MIT 18.919
- Stat 110, Stat 123, Stat 171, Stat 210, Econ 1011A

Fairfield Ludlowe High School

Valedictorian, AP Calculus BC, AP Computer Science, 4.8/5.0

Sept. 2021 – May 2025

Cambridge, MA

Fairfield, CT Aug. 2017 - Jun. 2021

Juvitop Speaker	Massachusetts Institute of Technology
Juvitop: Algebraic Topology Seminar (click title)	Oct. 202
• Gave a talk on the proof of the May Nilpotence Theorem, follo	owing Mathew-Naumann-Noel.
Teaching Fellow	Harvard Universit
Stat 110: Introduction to Probability	Aug. 2022 – Dec. 202
Assisted Prof. Joe Blitzstein with running Stat 110, the largesPrepared section notes, ran in-person and virtual office hours	
Seminar Coordinator	Harvard University
Chroma 2022: Harvard-MIT Homotopy Theory Seminar (click title	
Organized a seminar on chromatic homotopy theory for Harvard, MIT, aGave two talks on the statement and proof of Devinatz-Hopkins-Smith N	-
∞ -Operad Speaker	Harvard University
$(\infty, 1)$: Harvard Higher Categories Seminar (notes linked)	April 202
- Gave a talk on the formalism of ∞ -operads, following Lurie's	Higher Algebra §2.1.
Research Assistant	Harvard University
Department of Economics (click title)	Jan. 2022 – Aug. 202
 Worked with Prof. Ed Glaeser and Prof. Gabriel Kreindler to c Designed pipelines for scaled analysis of multi-terabyte dataset 	
Vlcek Group Research Intern	UC Santa Barbara (Remote
Department of Chemistry and Biochemistry (click title)	Jun. 2020 – Aug. 202
Studied higher-order quantum interactions in computation ofWorked on large (20,000 loc) Fortran codebases and automat	
Connecticut Science Fair Winner	CT Science and Engineering Fair
First Place Winner of CS Award (paper linked)	Sep. 2019 – Feb. 2020
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