

Rohan Kapoor

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EDUCATION

Dartmouth College

PhD in Mathematics

Hanover, NH

Incoming, Sep 2024

University of Chicago

BA in Mathematics (with Honors), Minor in Physics

Chicago, IL

Sep 2019-June 2023

Finished coursework for MS in Statistics, Dean's List 2021-22

EXPERIENCE

Exponent Fellow

Aug 2023 - Apr 2024

National Museum of Mathematics

New York City, NY

- Selected for a year-long fellowship as a museum docent and math education. Work with leading mathematicians on research and outreach.

Quantitative Trading Intern

Jun 2022 - Aug 2022

IMC Trading

Chicago, IL

- Used Pandas and SQL to analyze equity options wholesaling data. Implemented profit-making improvements to IMC's payment for order flow (PFOF) decision-making automated system.
- Attended classes in options, market, and game theory. Competed in algorithmic mock trading. Shadowed traders on all desks

Teaching Assistant

Jun 2020 - Jun 2022

Mathematics Department

UChicago

- Junior Tutor for introductory calculus, and Grader for Real Analysis 1 and Abstract Linear Algebra
- Counsellor for the Young Scholars Program: a summer camp on number theory for students in Chicago Public Schools

Research Associate

Jan 2021-Sep 2021

Ferguson Lab, Pritzker School of Molecular Engineering

UChicago

- Leveraged the Midway Research Computing Cluster to run large, parallelized molecular simulations on GPUs to test fitness of compounds for drug delivery
- Applied Gaussian Process Regressions and Bayesian Optimization to speed up the discovery process and suggest new compounds to simulate.
- Co-authored paper on the research work published in *Molecular Systems Design Engineering*, a leading journal in the field.

Summer Research Intern

Jun-Sep 2020

Strand Life Sciences

Bangalore, India

- Implemented a within-exome approach to detecting Copy Number Variations (CNVs) to more efficiently analyze large genetic data sets obtained from Next Gen Sequencing (NGS).

ACTIVITIES AND LEADERSHIP

President, Founding Member

Sep 2020-Present

UChicago Applied Math Club

UChicago

- Networked with leading faculty and grad students to organize weekly lectures in applied math and science fields.
- Pursued an intensive marketing strategy to get turnout for virtual events: resulted in a 200% increase in turnout for talks and saw larger turnouts over Zoom than similar STEM RSOs.

Varsity Debater, Chancellor

Sep 2019- Present

Chicago Debate Society

UChicago, IL

- Ranked 9th individual best speaker in North America at North American Debate Championships, runners up team at US Universities Debate Championships, a top 48 team at the World Universities Debating Championships
- Coached the Indian National Team in 2021 and 2023. The team was the top-ranked team in the preliminary rounds of the World Championships.

ACADEMIC HONORS

Joint Entrance Exam (JEE Advanced): All India Rank 2715 For admission to IITs, written by 1 million people annually.

KVPY: All India Rank 203, awarded scholarship to pursue further studies in STEM up to PhD level.

National Talent Search Examination: National Level NTSE Scholar, 1 of 700 chosen out of 1 million in a two-stage process.

Indian National Mathematical Olympiad Training Camp: by invitation after the Regional Math Olympiad. Top 40 in Karnataka state.

SKILLS AND INTERESTS

Languages: English (Native), Hindi (Native), Sanskrit (Limited)

Computer Languages: Python (numpy, scikit-learn, pandas, mdtraj, pytorch), R, Unix Shell, SQL, C++

Skills: Quantitative problem-solving, Teaching, Public speaking & Scientific explanation, Scientific literacy

Interests: Formula 1, Mountaineering, Rock climbing, Fantasy and Science Fiction novels