

Joaquim Das

joaquimdas@uchicago.edu | 571-331-0343 | <https://github.com/jqm-das/>

Education

University of Chicago, Chicago, Illinois

Computational and Applied Mathematics Major

Expected June 2026

Bachelor of Science

- GPA: 3.92 Key Coursework: Multivariable Real Analysis, Probability, Financial Accounting
- Transferred from the University of Virginia: UVA GPA: 3.97; Key Coursework: Data Structures, Ordinary Differential Equations, Discrete Math, Computer Systems, Abstract Algebra, Operations Research (Linear Programming)

Thomas Jefferson High School for Science and Technology, Alexandria, Virginia

September 2018 - June 2022

- GPA: 4.5 Key Coursework: Linear Algebra, AP CS, Artificial Intelligence, Web and Mobile App Development

Experience

US Department of State, Kathmandu, Nepal

Political/Economic Intern

August 2024 – September 2024

- Applying quantitative and statistical methodologies to research the trends of the Nepali economy.
- Writing reports internally and for D.C. concerning US interns in Nepal and attendance and representation of the U.S. at events, including an international conference and meetings with local companies, government, and NGOs.

UChicago Math Research Experience for Undergraduates, Chicago, Illinois

June 2024 – August 2024

Researcher

- Researched the intersection of probability and combinatorics (i.e. the probabilistic method), with the completion a mathematic research paper under the supervision of Victor Hugo Almendra Hernandez.
- Participated in a five-week apprentice program, developing fundamental knowledge of academic math (i.e. Combinatorics, Group Theory, and Geometry) and followed further lectures about Analysis and Probability.

US Department of State, Kathmandu, Nepal

Consular Intern

June 2023 – August 2023

- Applied K-means clustering and linear regression to study visa data and identify trends related to visa outcomes to reduce overstaying for the thousands of visas issued yearly by the post.
- Created a database with outstanding fraudulent visa documents through analyzing hundreds of relevant documents, ensuring data integrity and accessibility.
- Forecasted future visa appointment completion rates and availability to enhance visa adjudication and reporting.

Activities

International Leadership Council - Finance, Chicago, IL

Member

September 2023 – Present

- First place in the quarter-long stock simulation competition, managing the most profitable portfolio.

Solar Car Team, Charlottesville, VA

September 2022 – February 2023

Telemetry Team Collaborator

- Developed a user interface in Node.js and JavaScript for ease of use by the pit crew and other engineering teams as well as processed and analyzed data from numerous systems of the in-house built solar car.

UVA Math Club, Charlottesville, VA

September 2022 – February 2023

Member

- Scored within top 1100 students (~70%) percentile on 2022 William Lowell Putnam exam with no prior competition/proof-based math experience.

Projects

Monte Carlo Options Simulator

2024

- Developed a Monte Carlo simulation framework to model and forecast European Call options, implementing stochastic processes (e.g. Geometric Brownian Motion).

Music Classification

2022

- Implemented a convolutional neural network to classify different genres of music achieving 95%+ accuracy.

Tron Video Game

2022

- Built a multiplayer video game replicating the Tron video game in Java allowing concurrent usage.

Skills and Interests

- Computer skills: Python, Java, React, JavaScript, HTML/CSS, Git
- Languages: English (Native), French (Fluent), German (Basic), Bengali (Basic), Nepali (Basic)
- Interests: Language learning, Geopolitics, Calisthenics, Running