

Duy Thuc Nguyen

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EDUCATION

Harvard University

B.A, Mathematics and Statistics (GPA: 4.00)

Cambridge, MA

May 2027

- Select Coursework: Math 55A, Math 55B, Stat 210, Stat 171, AM 254
- Activities: Group of Undergraduates in Statistics at Harvard

EXPERIENCE

Harvard University

Undergraduate Statistics Researcher

Cambridge, MA

Sep 2024 - Present

- Research the universality of approximate message passing algorithms for neural network distillation.
- Advised by Professor Subhabrata Sen and Professor Yue Lu.
- Funded by Generative AI research grant.

Research Assistant

Jan 2025 - Present

- Develop mathematical benchmark datasets to assess quantitative reasoning abilities in LLMs.
- Supervised by Professor Michael Brenner.

Teaching Fellow

Sep 2024 - Present

- Spring 2025: Stat 171 (Stochastic Processes) and ES 150 (Probability with Engineering Applications).
- Fall 2024: Math 136 (Differential Geometry) and Stat 110 (Probability).

Undergraduate Mathematics Researcher

Jan 2024 - May 2024

- Conduct research into the convergence rate of random walks on groups and Markov chains rapid mixing.
- Research stochastic processes with the use of Fourier analysis and spectral theory.
- Funded by HCRP grant.
- Advised by Professor Blitzstein (Department of Statistics) and Professor Harris (Department of Mathematics).

UNC Greensboro

Greensboro, NC

Statistics Researcher - NSF REU

May 2024 - Aug 2024

- Conduct research into computational statistics methods for high-dimensional data analysis in biostatistics.
- Implemented machine learning algorithms for human activity recognition.
- Manuscript submitted to Statistics in Biosciences.
- Advised by Prof. Jianping Sun.
- Funded by NSF grant DMS-2244160.
- Presented work at ICSA Applied Statistics Symposium 2025

Harvard Student Agencies

Cambridge, MA

Mathematics Tutor

Nov 2023 - May 2024

- Develop short and long-term curricula in Calculus, Statistics, and Probability.
- Instruct on the applications of Python programming in simulating probability distributions.

Beyond The Five

Data Analyst

Remote

Nov 2021 - Jun 2023

- Utilized Python to compile statistics from 100+ courses through API.
- Automated analysis processes using Python Pandas and BeautifulSoup.
- Analyzed student engagement trends and collaborated with the marketing team to improve brand recognition.

SKILLS & AWARDS

Programming: Python, R, Algorithms, Stochastic processes simulation.

Awards:

- *Detur Book Prize:* Awarded to sophomores with high academic performance.
- *John Harvard Scholar:* Designated top 5% of undergraduates at Harvard College
- *Citadel Invitational Datathon:* Selected to compete at Citadel's Summer Datathon.
- *AIME Qualification:* Qualifying for the American Invitational Mathematics Examination.