

# Rohan Buluswar

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## EDUCATION

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### The Wharton School

*PhD in Statistics and Data Science*

August 2026 – Present

### The University of Chicago

*Bachelor of Science in Mathematics with Honors, Summa cum Laude (GPA: 4.00)*

June 2026

**Awards:** Dean's List ('22-'23, '23-'24, '24-'25), Robert Maynard Hutchins Scholar, Quad Undergraduate Research Scholar ('24-'25, '25-'26), Phi Beta Kappa Junior Year Inductee, Enrico Fermi Scholar Physical Sciences Collegiate Divisional Honors ('24-'25, '25-'26).

## EXPERIENCE

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### Orecchia Group, UChicago Department of Computer Science

*Researcher*

September 2024 – June 2026

- Investigated an alternative algorithm to diffusion models for image generation; utilized optimal transport for nonparametrically estimating densities from samples with entropy regularization
- Funded both years by Quad Undergraduate Research Grants (\$5000), presented mathematical and experimental results at UChicago Undergraduate Research Symposium

### Ellington Management Group

*Research Analyst Intern*

June 2025 – August 2025

- Programmed and trained turnover models used in pricing mortgage-backed securities
- Developed a model for forecasting distribution of mortgage rates in the US mortgage market, used to improve predictions of prepayment behavior and present statistical evidence demonstrating 'media effect'
- Integrated and validated external data sources to analyze prepayment causes
- Technologies utilized: Snowflake SQL, Pandas, NumPy, SciPy, Snowpark, Snowflake

### UChicago Mathematics REU 2024

*Researcher*

June 2024 – September 2024

- Studied mathematical foundations of stochastic processes, optimal transport theory, and Markov semigroup theory; examined applications to analysis of diffusion processes and sampling algorithms
- Authored an expository paper introducing the Langevin stochastic differential equation and a mathematical toolbox for quantifying its rate of convergence

### UChicago Mathematics REU 2023

*Researcher*

June 2023 – August 2023

- Studied analytic and symbolic combinatorics, developed a conjecture on a particular combinatorial class
- Authored an expository paper presenting symbolic combinatorics, demonstrating its usefulness in enumeration problems, and presented numerical evidence and partial proof toward conjecture

## TEACHING

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**Honors Calculus I (MATH 16100) TA/Super Reader**

March 2026 – June 2026

**Basic Algebra (MATH 25400) Grader**

September 2025 – December 2025

**Elementary Functions and Calculus (MATH 13100) Lead Junior Tutor**

September 2024 – March 2025