

# Vivek Saravanan

Madison, WI  
viveksar2@gmail.com  
viveksaravanan.com

## Education

---

### Bachelor of Science in Computer Science and Mathematics

May 2026

University of Wisconsin-Madison, Madison, WI

GPA: 3.97/4.0

## Research Experience

---

### Research Assistant (LLM Bias)

Sep 2024 – Present

University of Wisconsin TRAIL Lab, Madison, WI

Advised by Prof. Shamy Karumbaiah

### Undergraduate Researcher (Probability With Quaternions)

Jan 2025 – May 2025

Madison Experimental Mathematics Lab, Madison, WI

Advised by Prof. Benedek Valkó

### Undergraduate Researcher (Keakeya Conjecture)

Sep 2024 – Dec 2024

Madison Experimental Mathematics Lab, Madison, WI

Advised by Prof. Terence Harris

### Research Assistant (Algorithmic Bias)

Sep 2023 – Sep 2024

University of Wisconsin TRAIL Lab, Madison, WI

Advised by Prof. Shamy Karumbaiah

## Professional Experience

---

### Incoming Software Engineer Intern

May 2026

Databricks, San Francisco, CA

AI/ML - Team Unknown

### Software Engineer Intern

May 2025 – Aug 2025

Amazon Web Services, Bellevue, WA

Cloud Optimization - GenAI Tooling

### Quantitative Strategist Intern

Jun 2024 – Aug 2024

Goldman Sachs, New York, NY

IBD - M&A Quant Advisory

### Data Engineer Intern

May 2023 – Jan 2024

Alliant Energy, Madison, WI

## Publications

---

1. Karumbaiah, S., Saravanan, V., Meng, L., Bolt, D. (under review). Characterizing Biases in Large Language Models from Students' Linguistic Variations. *Journal of Learning Analytics (JLA)*.
2. Meng, L., Karumbaiah, S., Saravanan, V., Bolt, D. (2025). Identifying Biases in Large Language Model Assessment of Linguistically Diverse Texts. *Artificial Intelligence in Measurement and Education Conference (AIME-Con)*.
3. Karumbaiah, S., Choi, J., Yu, J. H., Saravanan, V., Agarwal, S. (under review). Contextualizing Intersectional Algorithmic Fairness in Educational Decision-Making. *International Journal of Educational Technology in Higher Education (IJETHE)*.

## Posters

---

1. Jack Grosskreuz, Vivek Saravanan, Sanan Sharifzade, Pritam Kayal. Probability with Quaternions. Research poster presented at MXM (Madison Experimental Mathematics), University of Wisconsin–Madison, Madison, WI, 2025.
2. Tianle Chen, Daniel Alexander David, Vivek Saravanan, Marissa Stolt. Numerical Study of Kakeya Maximal Inequalities. Research poster presented at MXM (Madison Experimental Mathematics), University of Wisconsin–Madison, Madison, WI, 2024.

## Awards and Honors

---

Dean's List

Dec 2022 – Present

David H. Durra Scholarship

Aug 2024