

PRIYA RAMAN

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Undergraduate researcher in computational neuroscience applying to Ph.D. programs.

EDUCATION

Ashford Hall University, Pittsburgh, PA

May 2027

B.S. in Neuroscience and Computer Science

GPA: 3.97/4.00; University Honors

Relevant Coursework: Computational Neuroscience, Linear Algebra, Deep Learning, Neural Data Analysis

RESEARCH

Center for Neural Computation, Pittsburgh, PA — *Senior Honors Thesis* Sep 2026 – May 2027

- Testing whether population geometry predicts behavioural errors in a delayed-match task.

EXPERIENCE

Visual Coding Lab, Center for Neural Computation, Pittsburgh, PA — *Undergraduate*

Researcher

Jan 2024 – Present

- Built a spike-sorting pipeline that processes 64-channel recordings 5× faster than the lab's previous tool.
- Lead author of a conference abstract on population coding in visual cortex.

Summer Undergraduate Research Program, Seattle, WA — *Research Fellow* Jun 2025 – Aug 2025

- Modeled working-memory dynamics with recurrent networks; presented at the program symposium.

Department of Computer Science, Pittsburgh, PA — *Teaching Assistant, Intro to Machine*

Learning

Aug 2025 – Present

- Lead weekly recitations for 40 students and hold office hours.

LEADERSHIP & ACTIVITIES

Women in Neuroscience, Pittsburgh, PA — *President* Sep 2025 – Present

- Organize a speaker series and a high-school outreach day for 120 students.

PROJECTS & SERVICE

Neural Data Tools, GitHub — *Developer* 2025 – Present

- Open-source toolkit for spike-train analysis; adopted by two labs on campus.

Science Communication Fellowship, Pittsburgh, PA — *Fellow* 2025

- Wrote 6 explainers on brain research for a public audience; 20,000 reads.

PUBLICATIONS & PRESENTATIONS

Raman, P., Chen, Y., & Watts, D. (2026). Low-dimensional coding of orientation in V1.
Computational Neuroscience Meeting, abstract.

Raman, P. (2025). Recurrent models of working memory. Summer Research Symposium, talk.

HONORS & AWARDS

- National Science Scholarship, Honorable Mention (2026)
- University Honors Research Grant (2025)

SKILLS & INTERESTS

Technical: Python (NumPy, PyTorch), MATLAB, Git, LaTeX, electrophysiology analysis

Languages: English, Tamil

Interests: Violin, science communication, hiking