

PRIYA RAMAN

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

EDUCATION

Ashford Hall University

May 2027

B.S. in Neuroscience and Computer Science, Pittsburgh, PA

GPA: 3.97/4.00; University Honors

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

RESEARCH

Center for Neural Computation

Sep 2026 – May 2027

Senior Honors Thesis, Pittsburgh, PA

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

EXPERIENCE

Visual Coding Lab, Center for Neural Computation

Jan 2024 – Present

Undergraduate Researcher, Pittsburgh, PA

- 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

Jun 2025 – Aug 2025

Research Fellow, Seattle, WA

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

Department of Computer Science

Aug 2025 – Present

Teaching Assistant, *Intro to Machine Learning*, Pittsburgh, PA

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

LEADERSHIP & ACTIVITIES

Women in Neuroscience

Sep 2025 – Present

President, Pittsburgh, PA

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

SKILLS & INTERESTS

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

Languages: English, Tamil

Interests: Violin, science communication, hiking