

James Carter

Graduate School

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Neuroscience honors graduate applying to Ph.D. programs in cognitive neuroscience for Fall 2025. Two years of wet-lab and fMRI research experience, co-author on one peer-reviewed paper, and a senior thesis on working memory in adolescents. Comfortable running participants, cleaning imaging data in Python, and presenting at lab meetings.

Professional Experience

Undergraduate Research Assistant | Bradbury Cognitive Neuroscience Lab, Providence, RI
Aug 2022 – Present

- Ran fMRI sessions with 47 adolescent participants for a federally funded working memory study, including screening, consent, and post-scan debriefs.
- Cleaned and preprocessed imaging data in fMRIPrep and Python (nilearn), reducing motion-artifact exclusions across the cohort.
- Co-authored a manuscript accepted at Developmental Cognitive Neuroscience (2024) and presented a poster at the Society for Neuroscience annual meeting.
- Trained two incoming RAs on scanner protocol and participant handling; wrote the lab's onboarding checklist.

Senior Thesis Researcher | Brown University Department of Cognitive Sciences, Providence, RI
Sep 2023 – May 2024

- Designed and ran an independent behavioral study on working memory load in 62 adolescent participants recruited through local school partnerships.
- Wrote analysis code in R (lme4) for mixed-effects models comparing performance across three difficulty conditions.
- Defended thesis to a three-professor committee; graduated with honors in Neuroscience.

Peer Tutor, Introductory Statistics | Brown Academic Resource Center, Providence, RI
Jan 2023 – May 2024

- Tutored 15-20 undergraduates per semester in probability, regression, and R basics.
- Ran weekly group review sessions before midterms with average attendance around 25 students.
- Rewrote the center's R cheat sheet after students flagged the old version as out of date.

Education

B.S. in Neuroscience, Honors, Brown University, 2024

Senior Thesis: 'Cognitive Load and Working Memory Performance in Adolescents' (advisor: Dr. E. Bradbury)

Relevant coursework: Cognitive Neuroscience, Systems Neuroscience, Statistics for the Behavioral Sciences, Neural Data Analysis

Key Skills

- fMRI acquisition and preprocessing with fMRIPrep and standard neuroimaging tools
- Python (nilearn, pandas, scikit-learn)
- R (lme4, ggplot2, tidyverse)
- Experimental design (behavioral and neuroimaging)
- Participant recruitment and human subjects research protocols
- Scientific writing and poster presentation
- LaTeX and reference management (Zotero)
- Conversational Spanish

