Sophie D. Allen

PhD Student · Yale University

New Haven, Connecticut

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Education

Yale University — *June 2024 - Present*
PhD Cognitive Psychology — *Department of Psychology*
Advisor: Dr. Nicholas Turk-Browne

Florida State University — *June 2020 - May 2024*
BS Psychology and Biomathematics — *Magna Cum Laude*
Advisor: Dr. Chris Martin

Fellowships, Honours, & Awards

2024 - 2027	**Dean's Emerging Scholar Fellowship**, Yale University	*$ 12,500*
2024	**Best Poster Award**, Florida State University Undergraduate Research Day	*$ 100*
	Honorable Mention, NSF Graduate Research Fellowship Program	
	Mark A. Berkley Research Award, Florida State University	*$ 500*
2023	**College of Arts and Sciences Conference Grant**, Florida State University	*$ 500*
	The Tyler Center for Global Studies IDEA Grant, Florida State University	*$ 4,000*
	Gilman Scholar, Benjamin A. Gilman International Scholarship Program	*$ 4,000*
2022 - 2024	**Goldwater Scholar**, The Barry Goldwater Scholarship and Excellence in Education Program	
Fall 2022	**Dean's List**, Florida State University	
2020 - 2023	**President's Lists**, Florida State University	
2020 - 2024	**Florida Medallion Scholar**, Florida Bright Futures Scholarship Program	

Presentations

Talks

Oct. 2023. **Allen, S.D.**, Barense, M.D., & Martin, C.B. *Characterizing the Durability of Experience-Dependent Representational Changes in the Hippocampus*. President's Showcase of Undergraduate Research Excellence.

Conference Posters

Allen, S.D., Kretschmar, R.A., Huckins, S., & Martin, C.B. (Oct. 2024). Associative learning influences representational structure of objects in the ventral visual pathway and hippocampus. Neuroscience 2024, Society for Neuroscience, Chicago, IL.

Allen, S.D., Kretschmar, R.A., Delmore, T., Barense, M.D., & Martin, C.B. (Apr. 2024). Parahippocampal cortex and fusiform gyrus integrate conceptual and perceptual features of object images. Cognitive Neuroscience Society 2024 Annual Meeting, Toronto, ON.

Sainterant, V., Kretschmar, R.A., Stovall, E., Chisolm, E., Sastoque, V., Tootle, P., Moser, J., **Allen, S.D.**, & Martin, C.B. (Apr. 2024). Hand and eye movements during object categorization discriminate between younger and older adults. Cognitive Neuroscience Society 2024 Annual Meeting, Toronto, ON.

Morgan, S., **Allen, S.D.**, Tripp, E., & Martin, C.B. (Apr. 2024). Activity in default mode network discriminates between personally familiar and experimentally familiar faces in older adults. Cognitive Neuroscience Society 2024 Annual Meeting, Toronto, ON.

Ghiraldini, E., Morgan, S., **Allen, S.D.**, Tripp, E., & Martin, C.B. (Apr. 2024). Goal-dependent Integration and Differentiation of Hippocampal Representations. Cognitive Neuroscience Society 2024 Annual Meeting, Toronto, ON.

Allen, S.D., Kretschmar, R.A., Delmore, T., Barense, M.D., & Martin, C.B. (Apr. 2024). Parahippocampal cortex and fusiform gyrus integrate conceptual and perceptual features of object images. Psychology Undergraduate Research Day, Florida State University, Tallahassee, FL.

Allen, S.D., Connolly, C.G., & Martin, C.B. (Nov. 2023). Differential engagement of dorsal and ventral medial prefrontal cortex in retrieval of semantic and episodic memory. Neuroscience 2023, Society for Neuroscience, Washington, D.C.

Ladyka-Wojcik, N., **Allen, S.D.**, Liang, J.C., Olsen, R.K., Ryan, J.D., & Barense, M.D. (Nov. 2023). Understanding the role of anterolateral entorhinal cortex in configural processing across the lifespan. Neuroscience 2023, Society for Neuroscience, Washington, D.C.

Allen, S.D., & Martin, C.B. (Apr. 2023). The neural basis of cognitive control in task-relevant long-term memory retrieval. Undergraduate Research Symposium, Florida State University, Tallahassee, FL.

Allen, S.D., & Lemmon, A. (Apr. 2023). Modeling neural circuits to understand incipient speciation in Chorus Frogs. Computational Exposition, Florida State University, Tallahassee, FL.

Allen, S.D., & Martin, C.B. (Apr. 2022). The neural basis of task-relevant memory retrieval. Undergraduate Research Symposium, Florida State University, Tallahassee, FL.

Research Experience

The Turk-Browne Lab | Yale University *New Haven, CT*
Advisor: Dr. Nicholas Turk-Browne *June 2024 - Present*
Research: How does the future restructure the connections between past experiences?

Martin Memory Lab | Florida State University *Tallahassee, FL*
Advisor: Dr. Chris Martin *Jan. 2021 - June 2024*
Research: Episodic and semantic memory retrieval, hippocampal representations of autobiographical memory, and neural integration of visual and conceptual object features.

Lemmon Lab | Florida State University *Tallahassee, FL*
Advisors: Dr. Alan Lemmon and Dr. Emily Lemmon *Oct. 2021 - May 2024*
Research: Modeling neural circuits to understand incipient speciation in Chorus Frogs.

Memory & Perception Lab | University of Toronto *Toronto, ON*
Advisor: Dr. Morgan Barense *May 2023 - Aug. 2023*
Research: Understanding the role of anterolateral entorhinal cortex in configural processing across the lifespan.

Clinical Neuroscience Lab | Florida State University *Tallahassee, FL*
Advisor: Dr. Chris Patrick *July 2021 - May 2023*
Research: EEG data collection and analysis

Outreach & Service

2025	**Yale Psychology Department Interview Day Committee**, Cognitive Area
2024 - 2025	**Cognitive Neuroscience Society**, Trainee Committee
2024 - 2025	**Yale Diversity Committee Sneak Peek Program**, Mentor
Oct. 2024	**Goldwater Scholar Alumni Panel (FSU)**, Panelist
July 2024	**Gilman Scholarship Alumni Panel (FSU)**, Panelist
2023-2024	**Math Fun Day**, Station Volunteer
2022	**Homeschooled Group Science Class**, Neuroscience Teacher
March 2022	**Brain Fair**, Station Volunteer

Technical Skills

Programming Languages: MATLAB, Bash scripting, Python, R, LaTeX, Julia, C++
Neuroimaging
Methods: fMRI, EEG, MEG
Software: AFNI, FSL, CONN, Freesurfer, CoSMoMVPA, ITK-SNAP, BVA, Curry8
Experiment Programming: PsychoPy, E-Prime3, Qualtrics, GorillaSC

Other Work Experience

Barista & Baker *Tallahassee, FL*
La Florida Coffee & Wine *June 2022 - Jan. 2024*