

Sophie D. Allen

PHD STUDENT · YALE UNIVERSITY

New Haven, Connecticut

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Education

Yale University

PHD COGNITIVE PSYCHOLOGY

Advisor: Dr. Nicholas Turk-Browne

June 2024 - Present

Department of Psychology

Florida State University

BS PSYCHOLOGY AND BIOMATHEMATICS

Advisor: Dr. Chris Martin

June 2020 - May 2024

Magna Cum Laude

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
2024	Honorable Mention , NSF Graduate Research Fellowship Program	
2024	Mark A. Berkley Research Award , Florida State University	\$ 500
2023	College of Arts and Sciences Conference Grant , Florida State University	\$ 500
2023	The Tyler Center for Global Studies IDEA Grant , Florida State University	\$ 4,000
2023	Gilman Scholar , Benjamin A. Gilman International Scholarship Program	\$ 4,000
2022 - 2024	Goldwater Scholar , The Barry Goldwater Scholarship and Excellence in Education Program	\$ 9,000
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	\$ 25,600

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. 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

ADVISOR: DR. NICHOLAS TURK-BROWNE

Research: How does the future restructure the connections between past experiences?

New Haven, CT

June 2024 - Present

Martin Memory Lab | Florida State University

ADVISOR: DR. CHRIS MARTIN

Research: Episodic and semantic memory retrieval, hippocampal representations of autobiographical memory, and neural integration of visual and conceptual object features.

Tallahassee, FL

Jan. 2021 - May 2024

Lemmon Lab | Florida State University

ADVISORS: DR. ALAN LEMMON AND DR. EMILY LEMMON

Research: Modeling neural circuits to understand incipient speciation in Chorus Frogs.

Tallahassee, FL

Oct. 2021 - May 2024

Memory & Perception Lab | University of Toronto

ADVISOR: DR. MORGAN BARENSE

Research: Understanding the role of anterolateral entorhinal cortex in configural processing across the lifespan.

Toronto, ON

May 2023 - Aug. 2023

Clinical Neuroscience Lab | Florida State University

ADVISOR: DR. CHRIS PATRICK

Research: EEG data collection and analysis

Tallahassee, FL

July 2021 - May 2023

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:

MATLAB, Bash scripting, Python, R, \LaTeX , Julia, C# for Unity, C++

Neuroimaging

Methods: fMRI, EEG, MEG

Software: AFNI, FSL, CONN, FreeSurfer, CoSMoMVPA, BrainIAK, ITK-SNAP, BVA, Curry8

Experiment Programming:

PsychoPy, PsychToolbox, E-Prime3, Qualtrics, GorillaSC

Work Experience

Barista & Baker

LA FLORIDA COFFEE & WINE

Tallahassee, FL

June 2022 - Jan. 2024