

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

New Haven, Connecticut

June 2024 - Present

Florida State University

BS PSYCHOLOGY AND BIOMATHEMATICS

Advisor: Dr. Chris Martin

Tallahassee, Florida

June 2020 - May 2024

Fellowships, Honours, & Awards

FELLOWSHIPS

2024 - 2027	Dean's Emerging Scholar Fellowship , Yale University	\$ 12,500
2022 - 2024	Goldwater Scholar , The Barry Goldwater Scholarship and Excellence in Education Program	\$ 9,124
2020 - 2023	Florida Medallion Scholar , Florida Bright Futures Scholarship Program	\$ 25,600

HONOURS AND AWARDS

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
Fall 2022	Dean's List , Florida State University	
2020 - 2023	President's Lists , Florida State University	

Publications

IN PREP

Allen, S.D., Kretschmar, R.A., Delmore, T., Barense, M.D., & Martin, C.B., (*in prep*). Parahippocampal cortex and fusiform gyrus integrate conceptual and perceptual features of object images.

Allen, S.D., Connolly, C.G., & Martin, C.B., (*in prep*). Differential engagement of dorsal and ventral medial prefrontal cortex in retrieval of semantic and recognition memory.

Lemmon, A.R., **Allen, S.D.**, Alluri, R., & Lemmon, E.M., (*in prep*). Modeling neural circuits to understand incipient speciation in Chorus Frogs.

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

ADVISOR: DR. NICHOLAS TURK-BROWNE

New Haven, CT

June 2024 - Present

Memory & Perception Lab | University of Toronto

ADVISOR: DR. MORGAN BARENSE

Toronto, ON

May 2023 - Aug. 2023

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

Lemmon Lab | Florida State University

ADVISORS: DR. ALAN LEMMON AND DR. EMILY LEMMON

Tallahassee, FL

Oct. 2021 - May 2024

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

Clinical Neuroscience Lab | Florida State University

ADVISOR: DR. CHRIS PATRICK

Tallahassee, FL

July 2021 - May 2023

Research focus: EEG data collection and analysis

Martin Memory Lab | Florida State University

ADVISOR: DR. CHRIS MARTIN

Tallahassee, FL

Jan. 2021 - May 2024

Research focus: Episodic and semantic memory retrieval, hippocampal representations of autobiographical memories, and perception.

Outreach & Service

- July 2024 **Gilman Scholarship Alumni Panel**, Panelist
- May 2024 **Math Fun Day**, Station Volunteer
- May 2023 **Math Fun Day**, Station Volunteer
- April 2022 **Homeschooled Group Science Class**, Neuroscience Teacher
- March 2022 **Brain Fair**, Station Volunteer

Membership

- 2023 - 2024 **Pi Mu Epsilon**, Mathematics Honor Society | V.P. of Communications & Chapter Co-Founder
- 2020 - 2024 **C.A.R.E.**, Program for First Generation College Students | Member

Technical Skills

Programming Languages

- Advanced Proficiency:* MATLAB, Python, BASH
- Intermediate Proficiency:* R, \LaTeX , Julia, C++, SAS, SPSS
- Learning:* JavaScript, HTML

Neuroimaging & Electrophysiology

- Methods:* fMRI, EEG, MEG
- Software:* AFNI, FSL, CONN, CoSMoMPPA, 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

- Coffee Brewing Expertise: Proficient in the art of pulling impeccable espresso shots and crafting stunning latte art.
- Bakery Skills: Skilled in crafting a variety of pastries, muffins, cookies, and bread.
- Wine Connoisseurship: Demonstrating a keen understanding of pouring techniques, ensuring a flawless 5 oz. pour.