

STEPHANIE SINCLAIR

Ph.D. Student | Department of Psychology, Stony Brook University |

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EDUCATION

Stony Brook University (August 2025 - Present) | Integrative Neuroscience Doctoral Program |
Advisor: Xi Chen, Ph.D. | Cognitive Health and Neurodegeneration (CHEN) Lab

University of California, Davis (UCD) (September 2018 - December 2021) | *Bachelor of Arts in Psychology & Communication* | UC GPA 3.912

RESEARCH INTERESTS

COGNITION, MEMORY, AGING, NEUROBIOLOGICAL MECHANISMS & HEALTH DISPARITIES

RESEARCH EXPERIENCE

MEMORY AND DEVELOPMENT LABORATORY (MaD Lab) | Principal Investigator: Dr. Simona Ghetti | June 2021 - November 2024 | Center for Mind and Brain 267 Cousteau Pl Davis, CA 95618
| Research Assistant

- Investigate hippocampal change, diabetes, and Autism Spectrum Disorder in relation to memory development
- Code and create online experiments (Testable and Qualtrics)
- Data organization and quality control (e.g., survey & experimental session responses)
- Implement knowledge of research methods and experimental design
- Use of R Studio for script development (e.g., functional connectivity, volumetric analysis, and multivariate correlation analysis)
- Stimuli curation for in-person and online experiments
- MRI safety training and MRI session monitoring
- Participant recruitment and coordination (e.g., emails, cold calls, advertisements, & postal mail)
- Creation of a research poster for a professional presentation

IMAGING OF DEMENTIA AND AGING LABORATORY (IDeA Lab) | Chief Investigator: Dr. Charles DeCarli | March 2022 - July 2025 | 1590 Drew Ave Davis, CA 95618 | Junior Specialist (March 2022 - May 2024) | Staff Research Associate (May 2024 - July 2025)

- Investigate aging and neurodegenerative diseases among diverse populations through advanced neuroimaging techniques
- Utilize both structural and functional knowledge of the brain for neuroimage segmentation, volumetric analysis, and atypicality identification (e.g., stroke, tumor, cyst, infarcts, and calcification)
- Investigate Alzheimer's Disease, related dementias, aging, and lifestyle risk factors using biomarkers (e.g., gray-white matter volumes, white matter hyperintensities, APOE4, and amyloid-beta) to aid in identification and treatment
- MRI quality control to produce data for research
- Daily use of Linux-based OS and in-lab software
- Python and R programming for data cleaning and statistical analysis
- Website design and development (WordPress, Site Farm & an HTML editor)
- Mentorship of trainees and undergraduate students for their career development
- Literature review, project design, and manuscript development
- Creation of a research poster for a professional presentation
- Internal and external project lead, overseeing study development and coordination

RESEARCH PUBLICATIONS

1. Berg, A. L., Sinclair, S., Acosta-Parra, A., Glosson, A., Moreno, C., & Fletcher, E. (2025). **The Association of Modifiable Lifestyle Factors with Episodic Memory: A Gradient Boosted Tree Analysis.** *Under Review.*
2. Mooney, L., Sinclair, S., Nguyen, P., Nordahl, C. W., Solomon, M., Ghetti, S., & Lee, J. (2025). **Volumetric Regional Differences and Episodic Memory in Autism.** *In progress.*
3. Sinclair, S., Berg, A. L., So Y.M., Acosta-Parra, A., Glosson, A., Moreno, C., & DeCarli, C. (2025). **Evidence and Characteristics of a Favorable Aging Group within the Framingham Heart Study.** *In progress.*

CONFERENCES

Cognitive Development Society | Pasadena, CA | March 2024 | Poster Session | Mooney, L., Sinclair, S., Nguyen, P., Nordahl, C. W., Solomon, M., Ghetti, S., & Lee, J. (2024). Volumetric regional differences and episodic memory in Autism.

Alzheimer's Disease Researchers' Symposium | Davis, CA | June 2024 | Poster Session | Berg, A. L., Sinclair, S., Acosta-Parra, A., Glosson, A., Moreno, C., & Fletcher, E. (2024). The Association of Modifiable Lifestyle Factors with Episodic Memory: A Gradient Boosted Tree Analysis.

Alzheimer's Association International Conference | July 2024 | Poster Session | Berg, A. L., Sinclair, S., Acosta-Parra, A., Glosson, A., Moreno, C., & Fletcher, E. (2024). The Association of Modifiable Lifestyle Factors with Episodic Memory: A Gradient Boosted Tree Analysis.

UC Davis Health's Imaging Research Center Symposium | February 2025 | Poster Session | Sinclair, S., Berg, A. L., So Y.M., Acosta-Parra, A., Glosson, A., Moreno, C., & DeCarli, C. (2025). Evidence and Characteristics of a Favorable Aging Group within the Framingham Heart Study.

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PROFESSIONAL SKILLS

- Microsoft Office proficiency
- Experience with Visual Studio Code, Python/R, and Linux-based OS
- Process and produce neuroimaging data (e.g., Mango, Freesurfer, & site-specific software)
- Provide quality control for large datasets
- Proficient management & mentorship skills (e.g., task delegation, instructional training, career development, & enforcing rules and protocols)
- G-suite proficiency (e.g., Google Docs, Google Slides, Google Sheets)
- Participant coordination and recruitment
- Creating online experiments and surveys

RESEARCH VOLUNTEER WORK

University of California, Davis | Research Volunteer (2018-2021)

- Volunteer in approximately 40+ SONA research studies - Online surveys, online tasks, and an in-person EEG

The Memory and Development Lab | Research Assistant (2021-2024)

Functional Advanced Neuroimaging Lab | MRI Participant (2022)

- Contributing to the cerebrovascular mapping of parameters for vascular fingerprinting

MEMBERSHIPS, AWARDS & CERTIFICATES

EEG/ERP ANALYSIS WITH PYTHON AND MNE: AN INTRODUCTORY COURSE- Udemy (2024)

PROGRAMMING FOR EVERYBODY (GETTING STARTED WITH PYTHON) CERTIFICATE - Coursera, University of Michigan (2023)

PHI KAPPA PHI- Academic Honor Society (2021)

Curriculum Vitae | Stephanie Sinclair

Updated: August 20, 2025

UCD Dean's Honor List - Winter Quarter 2019, Spring Quarter 2019, Fall Quarter 2021, Winter Quarter 2021, Spring Quarter 2021

Bachelor of Arts with Honors in Communication (2021)

Bachelor of Arts with Honors in Psychology (2021)