

Camille Gasser

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New York, NY

EDUCATION

- 2019 - present **PhD in Psychology** (expected 2024)
 MA in Psychology (expected 2021)
 Columbia University
 Advisor: Lila Davachi, PhD
 Secondary Advisor: Chris Baldassano, PhD
- 2013 - 2017 **BA in Psychology with honors, Summa cum Laude**
 New York University
 Minor: Computer Science & Math
 Honors thesis: "Predicting memory formation from EEG signals emitted during study"
 Thesis advisor: Todd Gureckis, PhD

RESEARCH EXPERIENCE

- August 2019 - present **Graduate Student Researcher**, Davachi Memory Lab
 Columbia University, New York, NY
- July 2017 - July 2019 **Lab Manager & Research Assistant**, Davachi Memory Lab
 New York University & Columbia University, New York, NY
- Sept. 2016 - Aug. 2018 **Honors Student & Research Assistant**, Computation & Cognition Lab
 New York University, New York, NY
- March - Aug. 2017 **Trainee**, Training Program for Computational Neuroscience
 New York University, New York, NY
- June - Aug. 2015 + 2016 **Research Assistant**, Neuroscape
 University of California, San Francisco, CA
- Sept. 2015 - Dec. 2015 **Research Intern**, Mood and Personality Disorders Research Program
 Icahn School of Medicine, Mt. Sinai, New York, NY

PUBLICATIONS

- Tarder-Stoll, H., Gasser, C., Yu, W., & Dimsdale-Zucker, H. (2021). Challenges in understanding the role of reactivation in modifying hippocampal representations. *Journal of Neuroscience*. <https://doi.org/10.1523/JNEUROSCI.0334-21.2021>
- Callaghan, B.*, Gasser, C*, Silvers, J., ... Davachi, L., & Tottenham, N. (2021). Age-related increases in posterior hippocampal granularity are associated with remote, detailed episodic memory. *Journal of Neuroscience*. <https://doi.org/10.1523/JNEUROSCI.1738-20.2020> *shared first authorship
- Clewett, D., Gasser, C., & Davachi, L. (2020). Pupil-linked arousal signals track the temporal organization of events in memory. *Nature Communications*. <https://doi.org/10.1038/s41467-020-17851-9>
- Halpern, D., Tubridy, S., Wang, H. Y., Gasser, C., Popp, P. J., Davachi, L., & Gureckis, T. M. (2018). Knowledge Tracing Using the Brain. *Proceedings of the 11th International Conference on Educational Data Mining*, Buffalo, NY.

Gasser, C., Tompary, A., & Davachi, L. (in prep). Effects of neural reinstatement on memory decision-making and evaluation.

CONFERENCE PRESENTATIONS

Thorp, J.N., Gasser, C., Blessing, E., & Davachi, L. (2021) The role of functionally-informed segmentation in measures of representational granularity along the hippocampal anteroposterior axis. *Annual Meeting of the Cognitive Neuroscience Society*. Virtual Meeting. [poster]

Gasser, C., Tompary, A., & Davachi, L. (2020). The role of neural reinstatement in memory decision-making and evaluation. *Context & Episodic Memory Symposium*. Virtual Meeting. [poster]

Callaghan, B.L., Gasser, C., Silvers, J., VanTieghem, M., Fields, A., Choy, T., Bloom, P., Harmon, C., Tompary, A., Davachi, L., Tottenham, N. (2019). Hippocampal multivoxel encoding signatures predict long-term memory across middle childhood and adolescence in humans. *Flux Congress*: New York City, NY. [poster]

Gasser, C., Callaghan, B.L., Davachi, L., & Tottenham, N. (2019). Dynamic changes in hippocampal representational granularity across development. *Manhattan Area Memory Meeting*: Princeton, NJ. [talk]

Gasser, C., Tompary, A., & Davachi, L. (2019). How memory reinstatement changes over time. *Annual Meeting of the Cognitive Neuroscience Society*. San Francisco, CA. [poster]

Clewett, D., Gasser, C., Phelps, E., & Davachi, L. (2019). Arousal modulates the organization of events in long-term memory. *Annual Meeting of the Cognitive Neuroscience Society*. San Francisco, CA. [poster]

Gasser, C., Tubridy, S., & Gureckis, T.M. (2017). Predicting and augmenting human learning. *Proceedings of the 1st Annual NYU Computational Neuroscience Symposium*. New York, NY. [talk]

Gasser, C., Tubridy, S., & Gureckis, T.M. (2017). Predicting memory formation from EEG signals emitted during study. *Proceedings of the 43rd Annual Undergraduate Research Conference*. New York, NY. [poster]

TEACHING EXPERIENCE

Fall 2021	Science of Psychology, <i>Graduate TA</i>
Summer 2021	Summer Internship Program in Psychological Science (SIPPS), <i>Workshop Instructor & Web Developer</i> Workshop topics: data cleaning, visualization, correlations & linear regression Website: https://columbia-sipps.github.io/
Fall 2020	Statistics for Behavioral Scientists, <i>Graduate TA</i> <i>Instructor: Katherine Fox-Glassman, PhD</i> Student Evaluation: 4.92/5
Fall 2020	Scientific Computing Workshop, <i>TA</i> (<i>student-led bootcamp for R & python hosted by Columbia Psychology Dept.</i>)
Spring 2020	Cognitive Neuroscience, <i>Graduate TA</i> <i>Instructor: Mariam Aly, PhD</i>

HONORS, GRANTS, & AWARDS

2021	Honorable Mention, Graduate Research Fellowship Program (GRFP), <i>NSF</i>
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2017	Doris Aaronson Award for Outstanding Departmental Research, <i>NYU</i>
2017	College of Arts & Science Alumni Association Award, <i>NYU</i>
2017	President's Service Award, <i>NYU</i>
2017	Founder's Day Award, <i>NYU</i>
2017	Computational Neuroscience Training Grant, <i>NYU</i>
2017 - present	Phi Beta Kappa Honor Society
2016	James A. Shae Research Scholar, <i>NYU</i>
2016	Dean's Undergraduate Research Fund Grant, <i>NYU</i>
2015 - present	Psi Chi Honor Fraternity
2013 - 2017	College of Arts & Science Presidential Honors Scholar, <i>NYU</i>
2013 - 2017	Dean's List, <i>NYU</i>

ACADEMIC SERVICE & COMMUNITY OUTREACH

Ad hoc (co-)reviewer for: Journal of the Royal Society Interface

June 2020 – **Graduate Student Representative**, Columbia University
May 2021 *New York, NY*

Organized & led orientation for first-year psychology PhD students, and facilitated communication between faculty and graduate students throughout the year

Sept. 2020 – **Editor-in-chief/Writer**, Scientists on the Subway (SciSub)
present *New York, NY*

Writes, edits, and oversees submission of articles for [SciSub](#) — a blog dedicated to highlighting the journeys of scientists at all career stages, with particular emphasis on featuring scientists who belong to underrepresented groups

Sept. 2018 - **Volunteer**, Columbia University Neuroscience Outreach (CUNO)
present *New York, NY*

Participates in events aimed to foster learning and interest in neuroscience research among NYC students of all ages (e.g. science fairs, brain activity booths)

Sept. 2014 - **Treasurer, Mentor**, Women and Youth Supporting Each Other (WYSE)
May 2017 *New York University, New York, NY*

Provided support and mentorship to middle school girls in curriculum including mental health, sexual education, substance abuse, and conflict resolution

Feb. 2014 - **Volunteer**, Daniel's Music Foundation
May 2015 *New York, NY*

Assisted children and adults with mental and/or physical disabilities during a range of music and dance classes

SKILLS

Programming languages: R, Python, Matlab, bash, Java (basic), JavaScript (basic)

Neuroimaging analysis packages: FSL, SPM, fMRIprep (basic)

Applications: Microsoft Word, PowerPoint, Excel, Adobe Illustrator, Photoshop, LaTeX, git

Research techniques: fMRI, EEG, rTMS, eye-tracking

Online experiment tools: Gorilla, Prolific

RELEVANT COURSEWORK

Graduate: Human Brain Imaging for Cognitive Neuroscience, Methods & Issues in Cognitive Neuroscience, Introduction to Statistical Modeling in Psychology, Non-Mnemonic Functions of Memory Systems, Analysis of Change (Multilevel Regression Models), Social Cognitive Neuroscience

Audited Graduate Courses: Bayesian Modeling of Behavior (NYU), Computational Cognitive Modeling (NYU)

Undergraduate: Cognition, Perception, Lab in Human Cognition, Developmental Psychology, Statistics for the Behavioral Sciences, Advanced Psychological Statistics, Biology I, Introduction to Computer Programming, Introduction to Computer Science, Data Structures, Calculus I & II