

# Camille Gasser

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New York, NY

## EDUCATION

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- 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

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- 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

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*\*shared first authorship*

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>

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

## CONFERENCE PRESENTATIONS

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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., Tomparly, 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., Tomparly, 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., Tomparly, 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

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Fall 2021                      Science of Psychology, *Graduate TA*  
*Instructor: Tina Kao, PhD*

Summer 2021                High School Journal Club, *Guest Instructor*  
*(journal club series developed by Halle Dimsdale-Zucker, PhD & the Aly Lab)*

Summer 2021                Summer Internship Program in Psychological Science (SIPPS),  
*Workshop Instructor & Web Developer*  
**Workshop topics:** data cleaning, visualization, correlations & linear regression  
**Website:** <https://columbia-sipps.github.io/>

Fall 2020                      Statistics for Behavioral Scientists, *Graduate TA*  
*Instructor: Katherine Fox-Glassman, PhD*  
Student Evaluation: 4.92/5

Fall 2020                      Scientific Computing Workshop, *TA*  
*(student-led bootcamp for R & python hosted by Columbia Psychology Dept.)*

Spring 2020                      Cognitive Neuroscience, *Graduate TA*  
*Instructor: Mariam Aly, PhD*

## HONORS, GRANTS, & AWARDS

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2021                      Honorable Mention, Graduate Research Fellowship Program (GRFP), *NSF*  
2019 – present        Dean’s Fellowship, *Columbia University*  
2017                      Doris Aaronson Award for Outstanding Departmental Research, *NYU*  
2017                      College of Arts & Science Alumni Association Award, *NYU*  
2017                      President’s Service Award, *NYU*  
2017                      Founder’s Day Award, *NYU*  
2017                      Computational Neuroscience Training Grant, *NYU*  
2017 - present        Phi Beta Kappa Honor Society  
2016                      James A. Shae Research Scholar, *NYU*  
2016                      Dean’s Undergraduate Research Fund Grant, *NYU*  
2015 - present        Psi Chi Honor Fraternity  
2013 - 2017            College of Arts & Science Presidential Honors Scholar, *NYU*  
2013 - 2017            Dean’s List, *NYU*

## ACADEMIC SERVICE & COMMUNITY OUTREACH

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*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 individuals 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

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**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

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**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