Craig R. Poskanzer

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EDUCATION

Columbia University, New York, NY   2021-Present
Ph.D. Student
Department: Psychology
Advisor: Mariam Aly

Princeton University, Princeton, NJ   2014-2018
Bachelor of Arts cum Laude, History of Science and Technology
Certificate in Neuroscience
Senior Thesis: *A Tale of Two Hemispheres: Split-Brain Research and the Popularization of Science*

WORK EXPERIENCE

Research Coordinator and Lab Manager in the Social and Cognitive Computational Neuroscience Lab   2019-2021
Chestnut Hill, MA, Boston College, *Advisor: Professor Stefano Anzellotti*
- Analyzed fMRI data using Multivariate Pattern Dependence to study nonlinear connectivity in the brain
- Built and trained artificial neural networks using Pytorch to examine dynamic facial expressions
- Mentored undergraduate researchers involved in lab projects
- Attended conferences and symposia including: 2020 Annual Conference of the Cognitive Science Society; MIT Brains, Minds, and Machines 2020 Summer Course
- Presented at conferences including: Cognitive Neuroscience Society 2020 Annual Meeting; Boston Area Neuroscience Group Fall Symposium 2019

Research Assistant in the Center for Sleep and Cognition   2018-2019
Boston, MA, Harvard Medical School, *Advisor: Professor Robert Stickgold*
- Ran behavioral experiments and collected data using EEG, polysomnography, and fMRI
- Used EEG microstate analysis and published a paper on memory consolidation during waking rest
- Attended Lectures and Conferences including: Sleep Grand Rounds, MIT Winter Dream Engineering Symposium, and the MIT Colloquium on Brain and Cognition with Sara Aton, Ph.D, SLEEP Annual Meeting (2019)
- Member of the Sleep Research Society

Research Assistant in the Elison Lab   Summer, 2017
Minneapolis, MN, University of Minnesota, *Advisor: Professor Jed Elison*
- Compiled a literature review of Agenesis of the Corpus Callosum
- Participated in workshops on Diffusion Weighted Imaging
- Assisted in a Diffusion Weighted Imaging study on the development of white matter in infants

Intern at the American Association for the Advancement of Science   Summer, 2016
Washington, D.C., *Intern in the Office of Government Relations and the Office of International and Security Affairs*
- Wrote newsletters on Congressional activities related to Science Policy
- Conducted political and internal research and designed and built websites on the political positions of Presidential candidates on issues of science policy

Research Assistant in the History of Science Department at Princeton University   Summer 2016
Princeton, NJ, *Advisor: Professor D. Graham Burnett*
- Created a literature review on the history of "Greebles" in Neuroscience
- Conducted interviews with the research team that created "Greebles"

Research Assistant in the Cognitive Science Program at Carleton College   Summer 2015
Northfield, MN, *Advisor: Professor Kathleen Galotti*
- Compiled a literature review and worked on grant proposals for a study on adolescent decision making

TECHNICAL SKILLS

fMRI; EEG; Polysomnography; MATLAB; Python; Pytorch; R; JavaScript; Amazon Mechanical Turk Design

PUBLICATIONS

First Author:

- **Poskanzer, C.,** Denis, D., Herrick, A., and Stickgold, R. (2021). Using EEG Microstates to Examine Post-Encoding Quiet Rest and Subsequent Word-Pair Memory. *Neurobiology of Learning and Memory, 181*. https://doi.org/10.1016/j.nlm.2021.107424.
- **Poskanzer, C.,** Fang, M., Aglinskas, A., and Anzellotti, S. Controlling for spurious nonlinear dependence in connectivity analyses. (In Press).

Co-author:

- Fang, M., **Poskanzer, C.,** and Anzellotti, S. PyMVPD: A toolbox for multivariate pattern dependence. (Submitted)
- Denis., D., Schapiro, A.C., **Poskanzer, C.,** Bursal, V., Charon, L., Morgan, A., and Stickgold, R. (2020). The roles of item exposure and visualization success in the consolidation of memories across wake and sleep. *Learning and Memory* 27(11), 451-456. DOI: 10.1101/lm.051383.120
- Denis, D., Mylonas, D., **Poskanzer, C.,** Bursal, V., Payne, J.D., and Stickgold, R. (2021). Sleep spindles preferentially consolidate weakly encoded memories. *The Journal of Neuroscience*. DOI: 10.1523/JNEUROSCI.0818-20.2021
- Tandoc, M., Bayda, M., **Poskanzer, C.,** Cho, E., Cox, R., Stickgold, R., and Schapiro, A.C. Influences of time of day on generalization. (Submitted) Tandoc, M. C., Bayda, M., Poskanzer, C., Cho, E., Cox, R., Stickgold, R., & Schapiro, A. C. (2021). Examining the effects of time of day and sleep on generalization. *Plos one*, *16*(8), e0255423.
- Bayda, M., Chamberlain, J., **Poskanzer, C.,** Bursal, V., Manickas-Hill, O.P., Cox, R., Denis, D., Morgan, A., and Stickgold, R. (2019, April). The Evolution of Motor Sequence Memory Over Time and Sleep. In *Sleep* (Vol. 42). Journals Dept, 2001 Evans RD, Cary, NC 27513 USA: Oxford Univ Press Inc.

Posters Presented

- **Poskanzer, C.,** Fang, M., Aglinskas, A., Anzellotti. S. Using fMRI to Model Nonlinear Interactions between Brain Regions. (Poster Presented at the Cognitive Neuroscience Society 2020 Annual Meeting and the Boston Area Neuroscience Group Fall Symposium 2019)
- Denis, D., Bursal, V., **Poskanzer, C.,** Charon, L., and Stickgold, R. Predicting sleep-dependent memory consolidation from EEG activity during encoding. (Poster presented at MIT Winter Dream Engineering Symposium)

PEER REVIEW

- Reviewer for *Brain Connectivity*