MAX KRAMER

Ph.D. Student in Cognitive Neuroscience

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MKramerPsych

Education

Ph.D., Cognitive Neuroscience
Carnegie Mellon University
2022 - 2027 [expected] | Pittsburgh, PA

MA., Computational Social Science
Specialization: Cognitive Neuroscience
Cumulative GPA: 3.94
University of Chicago
2020 - 2022 | Chicago, IL

BA., Psychology
High Honors in Psychology
Minor: Computer Science
Concentration: Cognitive Science
Concentration: Statistical Modeling
Cumulative GPA: 3.83
Oberlin College
2016 - 2020 | Oberlin, OH

Skills

Programming Languages
R
Python
MATLAB
Bash

Analytic Tools
RAVE [Intracranial EEG]
AFNI [fMRI]
PsychoPy [Psychophysics]
PyTorch [Deep Learning]
GitHub
HPC: SLURM, MOAB
AWS: S3, EMR, EC2, SNS, Kinesis

Research Skills
fMRI Analysis
Deep Learning
Bayesian Statistics
Dynamic Systems Modelling

Teaching & Mentoring
@ University of Chicago
- CompSci for Social Scientists [TA]

@ Oberlin College
- Winter Term in R Programming [TA]
- Research Methods I & II [Tutor]

Professional Society Memberships
Phi Beta Kappa - Zeta Chapter of Ohio
Sigma Xi - Oberlin College Chapter

Research Experience

Jun 2022 - Present	**Graduate Research Assistant**	Behrmann Lab

- PI: Marlene Behrmann
- Research in functional organization of object recognition
- Methods: iEEG, Computational

Aug 2020 - June 2022	**Graduate Research Assistant**	BrainBridge Lab

- PI: Wilma A. Bainbridge
- Research in object representations in memory
- Research Question: "What makes a stimulus memorable?"
- Methods: Behavioral, Computational, fMRI, Deep Learning

Jun 2019 - Aug 2019	**Summer Research Fellow**	TarrLab

- PI: Michael J. Tarr
- Research on the role of color in CNN face classifiers
- Research Question: "What role does color play in face perception?"
- Methods: Convolutional Neural Networks

Sep 2018 - May 2020	**Undergraduate Research Assistant**	CASH Lab

- PI: Kenneth J. D. Allen
- Research in Nonsuicidal Self Injury (NSSI)
- Research Question: "How does emotional response inhibition relate to emotion regulation?"
- Methods: Psychophysics, Behavioral, Computational

Sep 2016 - May 2020	**Undergraduate Research Assistant**	Darling Lab

- PI: Nancy E. Darling
- Research in Chronic Pain & Adolescent Development
- Research Question: "How do you get teens in pain to take back their lives?"
- Methods: Behavioral, Computational

Journal Publications

Kramer, M. A., Hebart, M. N., Baker, C. I., & Bainbridge, W. A. (2023). The features underlying the memorability of objects. *Science Advances*, 9(17). https://doi.org/10.1126/sciadv.add2981

Allen, K. J. D., Johnson, S. L., Sammon, M. M., Wu, C., **Kramer, M.A.**, Wu, J., Liu, R. T., Burke, T. A., Schatten, H. T., Armey, M. F. & Hooley, J. M. (2021). Validation of an Emotional Stop-Signal Task to Probe Individual Differences in Emotional Response Inhibition: Relationships with Positive and Negative Urgency. *Brain and Neuroscience Advances, 5*. https://doi.org/10.1177/23982128211058269

Poster Presentations & Talks

Kramer, M. A., Ayzenberg, V., Robert, S., Granovetter, M., Wang, Z., Patterson, C., Welch, W., & Berhmann, M. Examining adolescent ventral occipitotemporal cortex (vOTC) using stereotactic EEG. Vision Sciences Society 2023, St. Pete Beach, FL.

Kramer, M. A., Hebart, M. N., Baker, C. I., & Bainbridge, W. A. (2022). Semantics, not Atypicality Reflect Memorability Across Object Concepts. Vision Sciences Society 2022, St. Pete Beach, FL. Talk in the session on "Visual Memory: Capacity, encoding"

Kramer, M. A., Hebart, M. N., Baker, C. I., & Bainbridge, W. A. (2021). Memorability is more than typicality or atypicality: evidence from brain, behavior, and computational modeling. Society for Neuroscience 2022, Chicago, IL.

Kramer, M. A., Hebart, M. N., Baker, C. I., & Bainbridge, W. A. (2021). Characterizing Memorability in Representational Space: Analyzing Relative Contributions of Perceptual and Conceptual Information [Poster presentation]. Vision Sciences Society 2021, Virtual.

Honors and Awards

- University of Chicago Maroon Scholars - [2/3 Tuition Scholarship]
- Oberlin College LaunchU Startup Incubator - 1step2life Team [$20,000]

Professional Workshops

- Univ. Washington @ Seattle: Neurohackademy [Aug 2023]
- Cold Spring Harbor Labs: Vision [Jun 2023]
- NeuroMatch Academy: Computational Neuroscience Program [Jul 2022]