

# MAX KRAMER



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MKramerPsych

## Education

### MA., Computational Social Science

Specialization: Cognitive Neuroscience

Cumulative GPA: 3.94

University of Chicago

2020 - 2022 | Chicago, Illinois

### BA., Psychology

High Honors in Psychology

Minor: Computer Science

Concentration: Cognitive Science

Concentration: Statistical Modeling

Cumulative GPA: 3.83

Oberlin College

2016 - 2020 | Oberlin, Ohio

## Skills

### Programming Languages

MATLAB

R

Python

Bash

AFNI

SPSS

### Frameworks

HPC: SLURM, MOAB

AWS: S3, EMR, EC2, SNS, Kinesis

GitHub

PsychoPy

PyTorch

### 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]

## Research Experience

Aug 2020 - Present **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. (2021). The Features that Drive the Memorability of Objects [Manuscript Submitted for Publication]. Dept. of Psychology, University of Chicago. <https://osf.io/5a7z6>

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., Army, 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.** (2021). What Makes Something Memorable? Analyzing the Memorability of Objects. Proceedings of the University of Chicago Cognition Workshop. Chicago, IL.

**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. Proceedings of the Society for Neuroscience. Chicago, IL.

**Kramer, M. A.**, Hanson, P., Li, X., & Needell, C. D. (2021). Characterizing Memorability in Representational Space [Panel presentation]. Proceedings of the Interdisciplinary Graduate Conference at the University of Chicago 2021, 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]. Proceedings of the Virtual Vision Sciences Society 2021.

## Honors and Awards

- Maroon Scholars - [2/3 Tuition Scholarship]
- Stetson-Heiser Memorial Prize - [\$250]
- R.H. Stetson Award for Empirical Research - [\$500]
- Jerome Davis Research Grant - [\$500]
- LaunchU Startup Incubator - 1step2life Team [\$20,000]

## Society Memberships

- Phi Beta Kappa - Zeta Chapter of Ohio [Inducted May 2020]
- Sigma Xi - Oberlin College Chapter [Inducted May 2020]