

# Max Kramer

## Research Assistant

Graduate research assistant with interests in the application of computational techniques to problems in social neuroscience. Past research has examined the systemic nature of chronic pain, the application of machine learning to social neuroscience, and the creation of psychological process models of non-suicidal self injury.

## Research Experience

2019-09 -  
Current

### Independent Honors Research

*Oberlin College, Oberlin, OH*

- Conducted literature review and designed original experiments
- Implemented machine learning model for person-centered chronic pain rehabilitation

2019-08 -  
Current

### Research Assistant

*Cognition, Affect, Self-Regulation, And Health Lab, Oberlin, OH*

- Generated novel psychophysiological tasks to measure negative urgency and related constructs.
- Worked with principal investigator to coordinate research into nonsuicidal self injury (NSSI)

2019-05 -  
2019-09

### Undergraduate Research Fellow

*Carnegie Mellon University, Pittsburgh, PA*

- Conducted individual research in social neuroscience
- Implemented residual network models for exploratory analysis of role of color in face processing

## Education

2016-08 -  
Current

### Bachelor of Arts: Psychology

*Oberlin College - Oberlin, OH*

- High Honors in Psychology, minor in Computer Science
- Concentrations in Statistical Modeling & Cognitive Sciences
- Chair, Psychology majors' committee

## Conference Presentations

- Kramer, M., & Tarr, M.J. (2019). Investigating the Role of Color in DCNN Sex Classification of Faces. Center for the Neuronal Basis of Cognition Summer Research Conference.
- Kramer, M., & Darling, N.D. (2019). Visualizing a Migraine: A Spiking Neural Network Approach to Modeling Cortical Spreading Depression. Ohio Undergraduate Psychology Research Conference.
- Kramer, M., & Darling, N.D. (2018). A New View of Pain: Dynamic Systems Modeling of Chronic Pain and Adjacent Functioning. Ohio Undergraduate Psychology Research Conference.

## Memberships/Awards

- Phi Beta Kappa - Elected Spring 2020 by Oberlin College
- Sigma Xi - Elected Spring 2020 by Oberlin College
- Stetson Heiser Memorial Prize
- R.H Stetson Award in Empirical Research
- Jerome Davis Grant

## Contact

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### E-mail

[mkramer@mkramerpsych.com](mailto:mkramer@mkramerpsych.com)

### WWW

[www.mkramerpsych.com](http://www.mkramerpsych.com)

## Skills

Deep Learning

Dynamic Systems Modeling

Bayesian Statistics

Psychometric Analysis

Psychological Task Design

## Software

Python

R

SPSS

Bash

Linux

MATLAB

## References

Nancy Darling: [ndarling@oberlin.edu](mailto:ndarling@oberlin.edu)

Michael Tarr: [michaeltarr@cmu.edu](mailto:michaeltarr@cmu.edu)

Kenneth Allen: [kallen3@oberlin.edu](mailto:kallen3@oberlin.edu)