

Zoe Loh

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510-709-6180

Education:

University of California, Merced

Ph.D. in Management of Complex Systems- *in progress*

University of California, Merced

M.S. in Management of Complex Systems (December 2023)

University of California, Davis

Bachelor of Science in Cognitive Science with Highest Honors, minor in Psychology (June 2021)

Conference Presentations:

- Loh, Z., Hosseinpour, H., Padilla, L., & Castro, S.C. (2022). Physiological and Perceived Processing and Recall of Information From Social Media Scrolling Feeds. Psychonomic Society. Boston, MA. Poster.
- Loh, Z., Hosseinpour, H., Padilla, L., & Castro, S.C. (2022). Physiological and Perceived Processing and Recall of Information From Social Media Scrolling Feeds. Object Perception, Attention, and Memory Conference. Boston, MA. Poster.
- Loh, Z., Hosseinpour, H., Padilla, L., & Castro, S.C. (2022). Physiological and Perceived Processing and Recall of Information From Social Media Scrolling Feeds. Rocky Mountain Psychological Association. Salt Lake City, UT. Poster.
- Loh, Z., Hall, E.H., Cronin, D.A., & Henderson, J.M. (2021). Assessing the Influence of Task and Working Memory Capacity on Eye Movement Characteristics During Scene-Perception. Western Psychological Association. Virtual. Poster.
- Loh, Z., Hall, E.H., Cronin, D.A., & Henderson, J.M. (2021). Assessing the Influence of Task and Working Memory Capacity on Eye Movement Characteristics During Scene-Perception. UC Davis Undergraduate Research Center. Virtual. Talk.
- Loh, Z., Hall, E.H., Cronin, D.A., & Henderson, J.M. (2021). Assessing the Influence of Task and Working Memory Capacity on Eye Movement Characteristics During Scene-Perception. UC Davis Department of Psychology. Virtual. Poster.
- Loh, Z., Hall, E.H., & Henderson, J.M. (2020). Exploring Differences in Working Memory as a Predictor of Eye Movement Behavior. UC Davis Undergraduate Research Center. Virtual. Talk.
- Loh, Z., Hall, E.H., & Henderson, J.M. (2020). Exploring Differences in Working Memory as a Predictor of Eye Movement Behavior. UC Davis Department of Psychology. Virtual. Poster.

Manuscripts:

- Loh, Z., Hall, E.H., Cronin, D.A., & Henderson, J.M. (2022). Working memory control predicts fixation duration in scene-viewing. Psychological Research.

Awards and Honors:

- Graduate Fellowship Incentive Program Award (2022)
 - Award of \$200 for applying to large external fellowship
- J. Frank Yates Student Conference Award (2022)
 - Award of \$1,000 to support participation in the Psychonomics Annual Meeting
- Management of Complex Systems Department PhD Student Grant (2022)
 - Award of \$484 to support costs of presenting at a conference

- Graduate Fellowship Incentive Program Award (2021)
 - Award of \$200 for applying to large external fellowship
- Cognitive Science Outstanding Senior (2021)
 - One of two seniors in the program selected for exemplary scholarship
- Cognitive Science Citation for Outstanding Performance (2021)
 - Department award for academic performance
- Virtual Undergraduate Travel Award (2021)
 - Award of \$90 to present virtually at a conference
- Pepsi Non-Athletic Scholarship (2020)
 - Award of \$2,500 for academic merit
- Provost Undergraduate Fellowship Award (2020)
 - Award of \$823 for conducting an independent research project
- Dean's Honor List

Research Experience:

Graduate Student Researcher, Virtual Reality Simulation Training for Wildfire Evacuation (February 2022-Present)

Dr. Spencer Castro, Assistant Professor of Management of Complex Systems, UC Merced

Dr. Sri Kurniawan, Professor of Computational Media Department, UC Santa Cruz

- Conducted thematic analysis of interview data
- Created Qualtrics survey
- Storyboarded virtual reality scenario

Graduate Student Researcher, Physiological Processing, Perceived Effort, and Recall Performance for Information from Social Media Scrolling Feeds (August 2021- Present)

Dr. Spencer Castro, Assistant Professor of Management of Complex Systems, UC Merced

- Set up eye tracking equipment
- Contributed to experimental design
- Conducted literature review
- Developed experimental procedure
- Prepared stimuli
- Performed statistical analysis of behavioral data
- Performed cleaning and analysis of eye tracking data

Honors Thesis Student, Exploring Differences in Working Memory as a Predictor of Eye Movement Behavior (September 2019- June 2021)

Dr. John Henderson, Professor of Psychology, UC Davis

- Organized dataset of individual difference measures
- Cleaned large dataset (n = 100) of eye tracking data
- Performed statistical analysis of psychophysical and eye-tracking data using Python and R
- Conducted literature review

Research Assistant, Meaning Mapping Study (Summer 2020)

Dr. John Henderson, Professor of Psychology, UC Davis

- Prepared stimuli
- Modified an existing code pipeline in Python and Matlab
- Managed online surveys through the Qualtrics interface
- Developed tutorial for lab members using the same pipeline in the future

Research Assistant, Investigating Free Recall of Highly Similar Scene Stimuli (January 2019- June 2019)

Dr. John Henderson, Professor of Psychology, UC Davis

- Coded video data of outputs of visual free recall (drawings)
- Analyzed the temporal frequency of errors in recall using Python

Other Experience:

Deputy Team Lead, Data Science Challenge 2023 (July 2023)

Lawrence Livermore National Lab

- Helped lead a team of 3 undergraduate students
- Applied different machine learning classifiers to electrocardiogram (ECG) data
- Presented poster of findings

Mentoring:

Eva Devanathan, Undergraduate Research Assistant (2023-present)

Hana Ruiz, Undergraduate Research Assistant (2022- present)

Eileen Blanchard, Undergraduate Research Assistant (2022- 2023)

Kaylee Davis, Undergraduate Research Assistant (2021- 2023)

Xavier Canas, Undergraduate Research Assistant/ Lab Manager (2021- 2023)

Isabella Quiroz, Undergraduate Research Assistant (2021- 2022)

Jessica Rodriguez, Undergraduate Research Assistant (2021)

Guest Lectures:

Data Visualization in R, Data Analysis and Optimization, March 7, 2022

Teaching Experience:

Teaching Assistant, Data Analysis and Optimization, Dr. Spencer Castro, Spring 2022

Teaching Assistant, Law, Policy, and Risk Management, Dr. Crystal Kolden, Spring 2022

Activities:

Vice President, R, Artificial Intelligence, and Statistics Education (2023- present)

Member, SPARK Society (2022- present)

Executive Director of Finance and Planning, Professional Networking and Diversity Outreach, UC Merced (2021- 2023)

Member, Women in Science and Engineering (WiSE), UC Davis (2019- 2021)

Member, Asian American Association, UC Davis (2017- 2021)