

Chelsea L. Gordon

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EDUCATION

Ph.D. Cognitive & Information Sciences, University of California, Merced

Dissertation Topic: Influences of embodied experience on cognition and learning

B.S. Psychology, Minor in Cognitive Science, Michigan State University

Research Topic: fMRI lab assistant studying social and affective neuroscience

EXPERIENCE

2014 - 2019

Embodied Perception Research, Sensorimotor Neuroscience Lab

- Developed computer experiments using neuromodulation to understand and improve language and learning processes
- Explored effects of dynamic content on memory performance and its neural correlates
- Collected and analyzed high-dimensional neural and behavioral datasets
- Deployed word learning experiment using mobile devices to bring research into classrooms
- Disseminated findings at conferences and in academic journals
- Key finding: Making cognitive tasks active by engaging motor regions of the brain improves learning and memory

2017 - 2018

Behavioral Research in Virtual Reality, Computational Cognitive Neuroscience Lab

- Designed a series of experiments using HTC Vive and Oculus Rift in Unreal Engine 4
- Recruited, trained, and supervised four research assistants
- Processed, visualized, and analyzed **multimodal behavioral data** using **python** and **R**.
- Key topics: sensorimotor interactions shape concept learning

2015 - 2018

Teaching, UC Merced

- Teaching Fellow: Developed a syllabus and course content, delivered 36 hours of lectures, assessed progress, created assignments and activities for **cognitive neuroscience**.
- Taught at the most diverse UC campus
- Teaching Assistant: Assisted in seven courses in cognitive science, led discussions and labs, met with students to provide feedback and mentorship.
- Graduate Statistics Tutor: Helped graduate student researchers apply statistical methods.

2012 - 2013

STEM K-9 Instructor, Drake Planetarium & Science Center

- **Created** and **taught** hands-on course content about **physics, engineering, and chemistry** for after school STEM outreach, focusing on fun conceptual **activities** in small groups or pairs
- Employed various **teaching strategies** for students of different skill levels
- Attended promotional events to raise awareness of our STEM non-profit

SKILLS

- R, Javascript, HTML, CSS, python, numpy, matplotlib, sklearn, ggplot2, tibble, lme4
- Survey Design, Observational Research, Interviews, A/B Testing
- Regression Analyses, Data Visualization, Linear Mixed Models, Nonlinear Data Analyses, Qualitative Data Analysis
- RStudio, Spyder, Git, Unreal Engine, Jupyter, Windows, Linux, MacOS, VirtualBox
- Experimental Design, Multimodal Data Analysis, Mouse/Touch Tracking, Eye Tracking, TMS, EEG, EMG, fMRI, Meta-Analysis, Virtual Reality

AWARDS AND ACTIVITIES

Co-author of textbook chapters on computational models of learning and memory

Lead Organizer, Mental Simulation Workshop @ UC Merced; raised \$4,500 from industry and academic partners

GRAD-EXCEL Peer Mentorship Award (2017)

UC MERCI Rapid Research Grant (2015-2016)

Eugene Cota-Robles Fellowship (2013-2015)

Mercy Hospital 5K Stroke Awareness Run (2015)

Institutional Review Board, Student Representative (Ongoing)

Society for Neuroscience, Member

Society for Music Perception & Cognition, Member

Cognitive Neuroscience Society, Member

Cognitive Science Society, Member

Women in Cognitive Science, Member