Chelsea L. Gordon

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EDUCATION

Ph.D. Cognitive & Information Sciences, University of California, Merced -- *In Progress*
> Dissertation Topic: Interactions between the brain and body in cognition and learning

B.S. Psychology, Minor in Cognitive Science, Michigan State University
> Research Topic: fMRI lab assistant studying social and affective neuroscience

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EXPERIENCE

2014 - Present   **Cognitive Neuroscience Research,** Sensorimotor Neuroscience Lab
- Developed experiments using **Transcranial Magnetic Stimulation** to investigate neural processes
- Analyzed **EMG recordings** and influenced language, memory, and attention using neuromodulation
- Trained in collection and analysis of **EEG** data and **fMRI meta-analysis**
- Communicated research to both academic and general audiences
- Key finding: Brain networks for attention and memory are activated more strongly by dynamic, predictable content

2017 - Present   **Multimodal Behavioral Research,** Cognitive and Information Sciences Graduate Group
- Implemented **mouse tracking** and **eye tracking** experimental designs
- Designed a series of innovative experiments using **virtual reality**
- Deployed word learning experiment using iPads to bring research into classrooms
- Recruited, trained, and supervised six research assistants
- Rapidly explored, visualized, and analyzed **multimodal behavioral data** using **python** and **R**.
- Key topics: sensorimotor interactions shape concept learning

2015 - Present   **Teaching,** UC Merced
- Teaching Fellow: Effectively communicated course content, delivered 36 hours of engaging lectures and hands-on 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

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SKILLS

→ R, Javascript, HTML, CSS, python, numpy, matplotlib, sklearn, ggplot2, tibble, lme4
→ Regression Analyses, Data Visualization, Experimental Design, Linear Mixed Models, Nonlinear data analyses, Meta-Analysis
→ RStudio, Spyder, Git, Unreal Engine, Jupyter, Windows, Linux, MacOS, VirtualBox
→ TMS, EEG, EMG, fMRI, fMRI Meta-Analysis, Virtual Reality, Psychophysical Experiment Design, Multimodal Behavioral Data Analysis, Mouse/Touch Tracking, Eye Tracking, UX Testing

AWARDS AND ACTIVITIES

Co-author of textbook chapters on artificial neural models of cerebellum, basal ganglia, & hippocampus

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