Emily Han

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Education

M.S. in Computational Social Science

University of California, San Diego (UCSD) | Jul 2024 - Jun 2025 (Expected)

- **Relevant Coursework:**
  - Neural Networks and Deep Learning
  - Machine Learning for Social Science
  - Advanced Statistical Applications

B.S. in Psychological and Brain Science

University of California, Santa Barbara (UCSB) | Sep 2020 - Sep 2023

- **Relevant Coursework:**
  - Research Methods
  - Cultural Psychology
  - Cognitive Psychology

Research Experience

Graduate Research Assistant

IMPACT Lab at University of California, San Diego (UCSD) | **2024 - Present**

- Built web interfaces for online trait-rating studies, optimizing data collection and participant engagement.
- Managed and analyzed data on rapid social judgments, focusing on perceptions of corruptibility in politicians based on facial cues.

Undergraduate Research Assistant

VIU Lab at University of California, Santa Barbara (UCSB) | **2022 - 2023**

- Recruited participants and collected data using psychophysical measures (eye tracking).
- Trained research assistants on pre-screening, data collection, and troubleshooting experiments.

Independent Projects

2022 - 2024

- Led two comprehensive research studies as part of academic coursework:

  - *Replication Study: "How Quick Decisions Illuminate Moral Character" (2024)*
  - *Effect of Cultural Priming on Bicultural Individuals (2022)*
- Managed the entire research process; including survey/web development, participant recruitment, data collection, statistical analysis, and presenting findings.

Projects

Project Title	Description	Skills Learned	Methods/Techniques
Development of Deep Learning Wrappers (Capstone Project) *2024 - Present*	Simplify the application of deep learning libraries in computational social science research with scalable wrappers and advanced data imputation methods.	Machine learning library integration, workflow automation	Built scalable wrappers for TensorFlow, PyTorch, and MLX; automated pre-processing workflows for tabular and non-tabular data.
Investigating the Generalizability and Mechanism of Corruptibility Perceptions *2024 - Present*	Explored how facial features influence perceptions of corruptibility across cultural contexts.	Web development, Data analysis, Data cleaning	Created web-based surveys using HTML, CSS, and JavaScript; analyzed cross-cultural datasets using R
Replication Study: "How Quick Decisions Illuminate Moral Character" *2024 - 2024*	Replicating Critcher et al. (2013) study on moral judgments based on decision speed.	Experimental design, Web development, Data analysis	Designed experiments using jsPsych, and used R for analysis and visualization.
A Preference to Look Closer to the Eyes is Associated with a Position-Invariant Face Neural Cod *2022 - 2023*	Examined how fixation preferences on faces (eyes vs. mouth) influence neural representations and position invariance in face perception.	Eye-tracking data collection, Data collection	Collected and analyzed gaze-contingent adaptation data through eye tracking to study neural mechanisms.
Effect of Cultural Priming on Bicultural Individuals *2022 - 2023*	Investigated cognitive styles (holistic vs. analytical) influenced by individualistic and collectivistic cultural primes among bicultural people.	Experimental design, statistical analysis (R)	Designed surveys in Qualtrics and performed statistical analyses using R

See Project Page for detail

Skills

Domain	Skills
Programming	R, Python, JavaScript, HTML/CSS
Experiment Design	Designing and conducting experiments using online platforms (e.g., jsPsych, Prolific); knowledge of experimental paradigms and research methodologies
Data Management & Processing	Expertise in organizing, cleaning, and processing experimental datasets; proficiency in data wrangling, manipulation, and visualization
Statistical Analysis	Conducting statistical analysis, including hypothesis testing, regression modeling, and effect size estimations
Tools	GitHub, R Studio, Eye Tracking Technology, MATLAB (Psychtoolbox), jsPsych, Qualtrics, Prolific
Languages	English (Native Proficiency), Burmese (Native), Korean (Conversational)