

Beige (Jerry) JIN

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EDUCATION

University of California, Berkeley

Berkeley, CA

Master in Statistics

Aug 2023 – June 2024 (expected)

Peking University

Beijing

Bachelor in Logic and Philosophy of Science and Technology

Sep 2019 - July 2023

Bachelor in Psychology (Double Major)

Sep 2019 - July 2023

- Cumulative GPA: 3.8/4.0 (rank 3/49); Double Major GPA: 3.9/4.0

- Relevant Coursework: Python Programming, MATLAB-based Research Method, Probability Theory and Statistics, Advanced Mathematics, Linear Algebra, Numerical Algebra, Mathematical Logic, System and Computational Neuroscience

- Honors: Outstanding Graduate, 3-Year Merit Student (top 5%), First-class Scholarship, Robin Li Scholarship

University of California, Berkeley

Berkeley, CA

Exchange Student

Aug 2021 - Dec 2021

- GPA: 4.0/4.0 (Straight A+)

- Relevant Coursework: Methods for Research in Psychological Sciences, Brain Imaging Analysis, Cognitive Neuroscience

RESEARCH EXPERIENCES

CMR-IA: A Computational Model of Memory

Philadelphia, PA

Research Assistant, advised by Professor Michael J. Kahana, University of Pennsylvania

July 2022 – Aug 2023

- Developed the Context-Maintenance and Retrieval model for Items and Associations (CMR-IA), a computational model of memory based on previous CMR models
- Implemented the model using Python and simulated the model on classic experimental paradigms concerning recognition and cued recalls of items and associations
- Analyzed simulation results with statistical methods to verify the theoretical episodic memory mechanism regarding effects such as recency effects, similarity effects, receiver-operating characteristic curves, and word frequency effects
- Offered a unified framework for recognition and cued recalls of item and associative information

Temporal Dynamics in Serial Dependence of Orientation

Beijing

Research Assistant, advised by Professor Huan Luo, Peking University

June 2021 – Oct 2022

- Investigated the attractive bias in perception and decision caused by previous experience, i.e., serial dependence
- Independently conducted four experiments with novel paradigms and self-written programs in MATLAB and JavaScript
- Analyzed the experiment data from a temporal perspective and revealed a build-down in serial dependence and visual adaptation throughout the experimental session, which was neglected by most previous studies

PROJECTS

Analysis of Global Gender Differences

Beijing

Independent Research, Peking University

June 2022 – July 2022

- Applied statistical methods such as factor analysis, clustering analysis, and linear discriminant analysis with Python on 2006 – 2017 Global Gender Gap Report (GGGR) data from 144 countries
- Explored the worldwide heterogeneity in gender equality from the perspective of political empowerment, economic participation and opportunity, educational attainment, and health and survival
- Unveiled that a country's economic status, religion, and sex ratio are influencing factors behind gender differences

Schizophrenia Classifier

Berkeley, CA

Course Project, advised by Professor Kevin Weiner, University of California, Berkeley

Nov 2021 – Dec 2021

- Investigated whether anatomical features (cortical thickness) or functional features (task-based functional connectivity) are better at classifying schizophrenia through analyzing an open-source fMRI dataset on OpenNeuro
- Trained Support Vector Machine classifiers using Scikit-learn based on anatomical features and functional features
- Reached a peak accuracy of 84% and found functional features are of greater discriminability than anatomical features

PUBLICATION

Jin, B., Wu, Y., & Lo, C. K. (2021). Are Situation Models Embodied? *Proceedings of the 2021 4th International Conference on Humanities Education and Social Sciences (ICHESS 2021)*, 2710–2715. <https://doi.org/10.2991/assehr.k.211220.468>

SKILLS

Programming Skills: Python, MATLAB, R, HTML/CSS/JavaScript

Frameworks / Tools: Git, Docker, JupyterHub, Anaconda, Vim

Language Skills: Chinese (Native); English (Fluent, GRE: 336, TOEFL: 113)