

Jiuchen Zhang

jiuchez@uci.edu (+1) 217-693-1025 <https://jiuchenzhang.github.io/>

Research interests

Machine Learning, Reinforcement Learning, Recommender systems, Tensor factorization, Wearable devices data

Education

- 2020 – Present **University of California Irvine** – Irvine, CA
PhD in Statistics
Advisor: Dr. Annie Qu
- 2016 – 2018 **University of Illinois at Urbana-Champaign** – Champaign, IL
Master of Science in Statistics
- 2012 – 2016 **Zhejiang University** – Hangzhou, Zhejiang
Bachelor of Science in Mathematics and Applied Mathematics

Publications

- 2022 **A Tensor Factorization Recommender System with Dependency**
Jiuchen Zhang, Yubai Yuan, Annie Qu.
Electronic Journal of Statistics, 16, 2175-2205.
- 2022 **Culturally and linguistically appropriate home visit intervention for underserved dementia family caregivers: Preliminary results from a randomized controlled trial**
Lee, Jung-Ah, Eunae Ju, Jiuchen Zhang, Eilleen Sabino-Laughlin, Amir Rahmani, Lisa Gibbs, Sanghyuk Shin, Annie Qu, Priscilla Kehoe, and Adey Nyamathi.
Alzheimer's & Dementia 18 (2022): e058927.
- Accepted **Individualized Dynamic Model for Multi-resolutional Data**
Jiuchen Zhang, Fei Xue, Qi Xu, Jung-Ah Lee, Annie Qu.
Biometrika .
- In preparation **Testing Under Continuous Time Reinforcement Learning**
Jiuchen Zhang, Annie Qu.

In preparation **Function-on-function Regression Model with Multi-resolution and Dependent Predictors**
Jiming Chen, Jiuchen Zhang, Annie Qu.

Award

- 2023 First place winner of the ASA MDD Student Paper Competition, JSM 2024
- 2023 ENAR Distinguished Student Paper Award, ENAR 2024 Spring Meeting
- 2013 Second-Class Scholarship for Elite Student in Basic Sciences, Zhejiang University
- 2013 Third-Class Scholarship for Ourstanding Merits, Zhejiang University

Academic appointment

- Teaching Assistant**, University of California, Irvine
- 2021 Fall STATS 200AP: Intermediate Probability and Statistical Theory I
 - 2021 Spring STATS 7: Basic Statistics

Mentoring

- 2023 Haoqun Cao, Renmin University
 Xieqing Yu, Cornell University
- 2022 Zhuojiao Dong, University of California, Irvine
 Yiting Wang, University of California, Irvine
 Yiheng Wei, University of California, Irvine
 Haochen Tan, University of California, Irvine
 Ruxi Zheng, University of California, Irvine

Professional experience

- Dec. 2021 — **Research Assistant** – Irvine, CA
- Now Joined the Dementia Family Caregiver Support Study and provided data management for caregivers' wearable device data including both smartwatch and smart ring. Cooperated with the smartwatch technique team and a Computer Science student to build a platform for data downloading. Conducted data analysis in preparation for three abstract submissions to conferences. Performed data cleansing and preliminary analysis utilizing current wearable device data.

- May 2019 – **The Illinois Statistics Office (Consultant)** – Champaign, IL
Dec. 2019 Provided advice and collaboration for the statistical components of grant proposals including power analysis, identification of appropriate statistical methodology, data management and statistical report writing.
Developed targeted statistical methods as well as providing established, best-practice analysis using various analysis tool including Python, R and SAS.
Provided quality control of biomedical data analysis plan and SAS code.
- Sep. 2018 – **Technical Consulting & Research, Inc. (Statistical Analyst)** – Weston, CT
May 2019 Scraped contact information of every trial for a disease using package Selenium and BeautifulSoup and downloaded other information through URL parameters using Python.
Merged scraped data and downloaded data and applied data process to deal with records having multiple locations or multiple contacts and added latitude and longitude column given location column of downloaded data.

Contributed Talks

- Mar. 2024 Individualized Dynamic Latent Factor Model for Multi-resolutional Data with Application to Mobile Health
2024 Eastern North American Region (ENAR) Spring Meeting
- Aug. 2023 Individualized Dynamic Latent Factor Model with Application to Mobile Health Data
2023 Joint Statistical Meetings (JSM)
- Sep. 2021 A Tensor Factorization Recommender System with Dependency
Invited talk, 2021 ICSA Applied Statistics Symposium
- Aug. 2020 Multilayer Recommender Systems Using Dependent Tensor
2020 Joint Statistical Meetings (JSM)

Referee Experience

- Electronic Journal of Statistics (2)
- Journal of the Royal Statistical Society: Series B (3)
- Scientific Reports (1)

Professional Membership

- American Statistical Association

International Chinese Statistical Association

Institute of Mathematical Statistics

Eastern North American Region International Biometric Society