

Jiuchen Zhang

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Research interests

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

Employment

2024 (July) - **University of Michigan** – Ann Arbor, MI
Present Postdoc in Department of Biostatistics
Advisor: Dr. Peter Song

Education

2020 – 2024 **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 **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. <i>Biometrika</i> .
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