Jiuchen Zhang

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Research interests

Functional data analysis, Individualized model, Recommender systems, Tensor factorization, Wearable devices data

Education

2020 – Present	**University of California Irvine** – Irvine, CA PhD in Statistics Mentor: Professors 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.*.
Under review	**Individualized Dynamic Latent Factor Model with Application to Mobile Health Data** Jiuchen Zhang, Fei Xue, Qi Xu, Jung-Ah Lee, Annie Qu.
In preparation	**Function-on-function Regression on Streaming Data** Jiuchen Zhang, Annie Qu.

Academic appointment

Teaching Assistant, University of California, Irvine

2021 Fall	STATS 200AP: Intermediate Probability and Statistical Theory I
2021 Spring	STATS 7: Basic Statistics

Professional experience

Dec. 2021 — Now

Reasearch Assistant – Irvine, CA

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 two abstract submissions to conferences. Performed data cleansing and preliminary analysis utilizing current wearable device data.

May 2019 — Dec. 2019

The Illinois Statistics Office (Consultant) – Champaign, IL

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 — May 2019

Technical Consulting & Research, Inc. (Statistical Analyst) – Weston, CT

Scraped contact information of every trial for a disease using package Selenium and Beautiful Soup 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.

Talks

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 (1)

Scientific Reports (1)