

# Shuangjie Zhang

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## EDUCATION

University of California Santa Cruz, Santa Cruz, CA

2019-2024(expected)

**PhD in Statistical Science**

Advisor: Professor Juhee Lee

Duke University, Durham, NC

2017 – 2019

**Master of Statistical Science**

Advisor: Professor Surya T. Tokdar

Southwestern University of Finance and Economics, Chengdu, China

2013 – 2017

**Bachelor of Science, Statistics**

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## PAPERS

- Zhang, S., Lee, J. Covariate Dependent Factor Model for Feature Interactions in Microbiome Study (In progress)
- Zheng, H. , Zhang, S., Tokdar S. Bayesian Density Regression with Discontinuity (In progress)
  - To be presented at JSM 2023
- Zhang, S., Shen Y., Chen I. and Lee, J. (2023+) [Sparse Bayesian Group Factor Model for Feature Interactions in Multiple Count Tables Data](#) (submitted)
  - To be presented at JSM 2023
- Zhang, S., Shen Y., Chen I. and Lee, J. (2023+) [Bayesian Modeling of Interaction between Features in Sparse Multivariate Count Data with Application to Microbiome Study](#) (To appear in *The Annals of Applied Statistics*)
  - Presented at O' Bayes 2022

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## SOFTWARE

- **Sp-BGFM**: R package in preparation for Sparse Bayesian Group Factor Model for Feature Interactions in Multiple Count Tables Data. <https://github.com/Zsj950708/SP-BGFM>
- **Zi-MLN**: R code for Bayesian Sparse Multivariate Regression with Asymmetric Nonlocal Priors for Microbiome Data Analysis. <https://github.com/Zsj950708/ZI-MLN>

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## SERVICE

- Peer-Reviewer for article submitted to *Computational Statistics & Data Analysis*. 2022

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## AWARD & FELLOWSHIP

- SFASA JSM Student Travel Award. 2023
- UCSC Dean's Travel Award. 2023
- Department Summer Fellowship. 2022
- UCSC Regent Fellowship. 2020
- National Student Scholarship. 2015

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## TEACHING EXPERIENCE

**Graduate Teaching Assistant:**

- STA601 Bayesian Methods and Modern Statistics – Duke University – Fall 2018
- STAT 5 Statistics – UCSC – Fall 2019, Winter 2020, Summer 2020-01, Fall 2021, Spring 2022, Summer 2022-01
- STAT 131 Introduction to Probability Theory – UCSC – Summer 2022-02, Spring 2023
- STAT 132 Classical and Bayesian Inference – UCSC – Winter 2023

**Graduate Student Researcher**

- Fall 2020, Winter 2021, Spring 2021, Summer 2021, Winter 2022