# **Shuangjie Zhang**

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**EDUCATION** 

University of California Santa Cruz, Santa Cruz, CA

2019-2024(expected)

**Ph.D. 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**

### **PREPRINTS**

- Zhang, S., Lee, J. Covariate Dependent Factor Model for Feature Interactions in Microbiome Study (In progress)
- Zheng, H., Zhang, S., Sen R., Tokdar S. <u>Bayesian Density Regression with Discontinuity</u> (Submitting to Journal of Business & Economic Statistics)
- Zhang, S., Shen Y., Chen I. and Lee, J. (2023+) <u>Sparse Bayesian Group Factor Model for Feature Interactions in Multiple Count Tables Data</u> (Under revision of Journal of the American Statistical Association)

### **PUBLICATIONS**

Zhang, S., Shen Y., Chen I. and Lee, J. (2023) <u>Bayesian Modeling of Interaction between Features in Sparse</u>
 <u>Multivariate Count Data with Application to Microbiome Study</u> (*The Annals of Applied Statistics* 17.3 (2023): 1861-1883)

### **PRESENTATIONS**

- Joint Statistical Meetings, Toronto, Canada, 2023
- Objective Bayes, Santa Cruz, CA, 2022

## **SOFTWARE**

- **Sp-BGFM**: R package (in preparation) for Sparse Bayesian Group Factor Model for Feature Interactions in Multiple Count Tables Data. <a href="https://github.com/Zsj950708/SP-BGFM">https://github.com/Zsj950708/SP-BGFM</a>
- **Zi-MLN**: R code for Bayesian Modeling of Interaction between Features in Sparse Multivariate Count Data with Application to Microbiome Study. https://github.com/Zsj950708/ZI-MLN

### **FELLOWSHIP & AWARD**

- SFASA JSM Student Travel Award, San Francisco Bay Area Chapter of the American Statistical Association, 2023
- UCSC Dean's Travel Award, University of California Santa Cruz, 2023
- Department Summer Fellowship, University of California Santa Cruz, 2022
- UCSC Regent Fellowship, University of California Santa Cruz, 2020
- National Student Scholarship, Southwestern University of Finance and Economics, 2015

# TEACHING EXPERIENCE

# **Graduate Teaching Assistant:**

STAT 132 Classical and Bayesian Inference – UCSC – Winter 2023

- STAT 131 Introduction to Probability Theory UCSC Summer 2022-02, Spring 2023
- STAT 5 Statistics UCSC Fall 2019, Winter 2020, Summer 2020-01, Fall 2021, Spring 2022, Summer 2022-01
- STA 601 Bayesian Methods and Modern Statistics Duke University Fall 2018

### **Graduate Student Researcher**

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

### **COMPUTER SKILLS**

• R, Rc++, Python, Latex

## CONTRIBUTIONS TO SCIENTIFIC COMMUNITY

- Invited-reviewer for article submitted to Computational Statistics & Data Analysis. 2022
- Professional membership for International Society for Bayesian Analysis (ISBA) and American Statistical Association (ASA)

## **REFERENCES**

- Juhee Lee: Professor
   Department of Statistics
   University of California Santa Cruz
   1156, High Street, Santa Cruz, CA, 95064
   juheelee@soe.ucsc.edu
  - Surya T. Tokdar: Professor
    Department of Statistics
    Duke University
    214 Old Chemistry, Box 90251, Durham, NC 27708
    tokdar@stat.duke.edu