

Shuangjie Zhang

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EDUCATION

Ph.D. Candidate in Statistics , University of California, Santa Cruz	09/2019-present
M.S in Statistics , Duke University	08/2017-05/2019
B.S in Statistics , Southwestern University of Finance and Economics (SWUFE), China	09/2013-06/2017

Research Experience

Research Assistant under topic Bayesian high-dimensional modeling	UCSC	
Advisor: Juhee Lee		06/2020-present
<ul style="list-style-type: none">• Develop Bayesian models for multivariate count table• Use sparse latent factor model to explore the correlation between counts.• Apply the model to microbiome data		
Research Assistant under topic Bayesian Density Regression with Discontinuity	Duke University	
Advisor: Surya Tapas Tokdar		05/2018-05/2019
<ul style="list-style-type: none">• Develop Bayesian density regression model with a given threshold• Use polynomial functions to approximate the density function in a nonparametric way• Implement the inference by adaptive blocking MCMC and make use of Gelman–Rubin diagnostic• Apply the model to solve real discontinuity data from business proposals		

Teaching Experience

Teaching Assistant, Duke University	09/2018- 12/2018
<ul style="list-style-type: none">• Course 601 Bayesian Methods and Modern Statistics for master and PhD students• Lead lab sections for master students and PhD students	

Publication

1. Shuangjie Z., Yuning S., Irene A. C., and Juhee L.(2021) **Bayesian Modeling of Interaction between Features in Sparse Multivariate Count Data with Application to Microbiome Study**, under revision of *AOAS*