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# Qingyang Liu

#### Education

2019-2023 **PhD in Statistics**, *University of South Carolina*, GPA:4.0/4.0

Expected graduation: May 2023

Dissertation: Parametric and Semiparametric modal regression models

Advisor: Dr. Xianzheng Huang

2015-2017 Master of Science in Statistics, Temple University, GPA:3.83/4.0

## Work Experiences

2019-2023 Instructor, University of South Carolina

- Teach elementary statistics (STAT 201), Fall 2019 Summer 2022.
- O Teach elementary statistics for the biological and life sciences (STAT 205), Fall 2022 Spring 2023.

2017-2019 Statistician, Corteva Agriscience

O Statistical analysis of agricultural experiments for developing new fungicides.

2016-2017 Data Analyst, Temple University - Wellness Resource Center

O Statistical analysis of psychological data about students' mental health and related behavior.

#### Research Interests

Modal regression models, robust statistics, spatio-temporal statistics, Bayesian parametric/nonparametric models, measurement error and computational statistics.

#### Honours and Awards

- Outstanding Graduate Student in Academics,
   Department of Statistics, University of South Carolina, Year 2022.
- Outstanding Graduate Assistant,
   Department of Statistics, University of South Carolina, Year 2021.
- Outstanding First-Year Graduate Student,
   Department of Statistics, University of South Carolina, Year 2020.
- Dean's Certificate of Excellence,
   Fox School of Business, Temple University, Year 2017.

# **Grant Application**

University of South Carolina. Support to Promote Advancement of Research and Creativity (SPARC). "A Flexible Modal Regression Based on Gumbel Mixture Distribution". **Role: PI**. Requested amount: \$4,995.13. Submitted in October, 2021. **Result: rejected**.

### **Publications**

Qingyang Liu and Xianzheng Huang. Parametric modal regression with error in covariates. arXiv:2212.01699, 2022.

Qingyang Liu, Xianzheng Huang, and Rai Bai. Bayesian modal regression based on mixture distributions. *arXiv:2211.10776*, 2022.

Qingyang Liu, Xianzheng Huang, and Ray Bai. Bayesian semiparametric modal regression models. *In preparation*.

Qingyang Liu, Xianzheng Huang, and Haiming Zhou. The flexible gumbel distribution: A new model for heavy-tailed data. *arXiv:2212.01832*, 2022.

## Technical Skills

Programming C++, R, Python, Stan, SAS, JAGS Languages