Cheng Zeng

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Education

University of Florida — Gainesville, FL, USA
Ph.D. in Statistics — *Aug. 2018 – June 2025 (Expected)*
Advisor: Leo L Duan
Dissertation: New Methods and Large Sample Theory in Bayesian Nonparametrics and Semiparametrics

University of Science and Technology of China — Hefei, China
B.S. in Mathematics and Applied Mathematics — *Oct. 2013 – June 2017*

Publication (Statistical Theory and Methods)

- Cheng Zeng, Jeffrey W Miller, and Leo L Duan. Consistent Model-based Clustering Using the Quasi-Bernoulli Stick-breaking Process. *Journal of Machine Learning Research*, 24(153):1–32, 2023.

Preprints

- Cheng Zeng, Yaozhi Yang, Jason Xu and Leo L Duan. Gradient-bridged Posterior: Bayesian Inference for Models with Implicit Functions. *arXiv preprint arXiv:2503.11637, under review at Journal of the Royal Statistical Society Series B: Statistical Methodology*, 2025.
- Cheng Zeng, Eleni Dilma, Jason Xu and Leo L Duan. The Bridged Posterior: Optimization, Profile Likelihood and a New Approach to Generalized Bayes. *arXiv preprint arXiv:2403.00968, major revision at Journal of the American Statistical Association*, 2024.

Publication (Application)

- Cheng Zeng, George Michailidis, Hitoshi Iyatomi, and Leo L Duan. Normalizing Flow to Augmented Posterior: Conditional Density Estimation with Interpretable Dimension Reduction for High Dimensional Data. *International Journal of Computer and Information Engineering*, 18(5):306–315, 2024.

Awards and Honors

CLAS Dissertation Fellowship Award — Gainesville, FL USA
College of Liberal Arts and Sciences, University of Florida — *2024*

Mendenhall Award for Best First Year Student — Gainesville, FL USA
Department of Statistics, University of Florida — *2019*

Contributed Presentations

2023 The Bayesian Young Statisticians Meeting (BAYSM) — Oct. 2023
Title: Bridged Posterior: Optimization, Profile Likelihood and a New Approach for Generalized Bayes

2021 World Meeting of the International Society for Bayesian Analysis (ISBA) — Jun. 2021
Title: Quasi-Bernoulli Stick-breaking: Infinite Mixture with Cluster Consistency

Teaching Experience

Teaching Assistant at the University of Florida — Aug. 2018 – Apr. 2025

- STA 2023: Introduction to Statistics I
- STA 3024: Introduction to Statistics II
- STA 3032: Engineer Statistics
- STA 3100: Programming With Data in R
- STA 4210: Regression Analysis
- STA 4321: Introduction to Probability
- STA 4322: Introduction to Statistical Theory
- STA 4821: Stochastic Processes
- STA 4853: Time Series Methods
- STA 6276: Statistical Computing II: Monte Carlo Methods
- STA 6326: Introduction to Theoretical Statistics I
- STA 6327: Introduction to Theoretical Statistics II

Reviewer

- Statistica Sinica, Bernoulli