

Maoran Xu

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218 Griffin-Floyd Hall, Gainesville, FL, 32611-8545

EDUCATION

University of Florida

PhD in Statistics

Advisor: Leo L. Duan

Research Interests: Bayesian methodologies combined with optimization tools; inference on network data

Gainesville, FL

Aug. 2018 – Present (Estimated Graduation: Aug. 2022)

Fudan University

Bachelor of Science, Mathematics and Data Science

Shanghai, CN

Aug. 2014 – May 2018

PROFESSIONAL EXPERIENCE

University of Florida

Teaching assistant and research assistant

Gainesville, FL

Aug. 2018 – Aug. 2022)

Fudan University

Teaching assistant

Shanghai, CN

Mar. 2018 – May 2018

New York University Shanghai

Visiting research assistant

Shanghai, CN

Nov. 2017 – May 2018

Tongji University

Research internship

Shanghai, CN

Jun. 2017 – Sep. 2017

PUBLICATION AND PREPRINTS

- Maoran Xu, Hua Zhou, Yujie Hu and Leo L. Duan. “Bayesian Inference using the Proximal Mapping: Uncertainty Quantification under Varying Dimensionality” (Under revision) arXiv preprint arXiv:2108.04851 (2021)
- Maoran Xu, and Leo L. Duan. “Bayesian Inference with the l_1 -ball Prior: Solving Combinatorial Problems with Exact Zeros” (Under revision) arXiv preprint arXiv:2006.01340 (2020).
- Maoran Xu, and Leo L. Duan. “Bayesian Multi-scale Modeling of Factor Matrix without using Partition Tree.” arXiv preprint arXiv:2002.09606 (2020).
- Wang, Ziyu, Ke Chen, Junyan Jiang, Yiyi Zhang, Maoran Xu, Shuqi Dai, Xianbin Gu, and Gus G. Xia. “Pop909: A Pop-song Dataset for Music Arrangement Generation.” arXiv preprint arXiv:2008.07142 (2020).
- Shi, Yang, Maoran Xu, Rongwen Zhao, Hao Fu, Tongshuang Wu, and Nan Cao. “Interactive Context-aware Anomaly Detection Guided by User Feedback.” IEEE Transactions on Human-Machine Systems 49, no. 6 (2019): 550-559.
- Maoran Xu, Ziyu Wang, and Gus G. Xia. “Transferring Piano Performance Control across Environments.” In 2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), pp. 221-225. IEEE, 2019.
- Gu, Yunfan, Zhongyu Wei, Maoran Xu, Hao Fu, Yang Liu, and Xuan-Jing Huang. “Incorporating Topic Aspects for Online Comment Convincingness Evaluation.” In Proceedings of the 5th Workshop on Argument Mining, 2018.

SOFTWARE

- **11ball**: R package for exactly sparse high-dimensional regression with the l_1 -ball prior.

TEACHING

Instructor at the University of Florida | *Gainesville, FL*

Jun 2021

- STA 3024: Introduction to Statistics II

Teaching Assistant at the University of Florida | *Gainesville, FL*

Aug 2018-Present

- STA 2023: Introduction to Statistics I
- STA 3024: Introduction to Statistics II
- STA 4321: Introduction to Probability I
- STA 4322: Introduction to Probability II
- STA 4712 Introduction to Survival Analysis
- STA 6246: Linear Models

PRESENTATION

2021 Joint Statistical Meetings | *Online Virtual Meeting*

Aug 2021

- Title: Bayes meets Optimization: Proximal Prior for Modeling in Unknown/Varying Dimensional Space

2021 World Meeting of the International Society for Bayesian Analysis | *Online Virtual Meeting*

Jun 2021

- Title: Bayesian Inference with the l_1 -ball Prior: Solving Combinatorial Problems with Exact Zeros

Student seminar at the University of Florida | *Gainesville, FL*

Apr 2021

- Title: Bayesian Inference via Optimization

2019 Joint Statistical Meetings | *Denver, CO*

July 2019

- Title: Where Does Our Working Memory Take Place? A Multi-Level Sub-Graph Analysis of Brain Functional Connectivities

IEEE International Conference on Acoustics, Speech and Signal Processing | *Brighton, UK*

May 2019

- Title: Transferring Piano Performance Control across Environment

TECHNICAL SKILLS

Programming Languages: Python, Matlab, R

Software and Tools: Stan, Latex, TensorFlow, Pytorch