

# Maoran Xu

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

## EDUCATION

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### 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*

### Fudan University

*Bachelor of Science, Mathematics and Data Science*

Shanghai, CN

*Aug. 2014 – May 2018*

## PUBLICATION AND PREPRINTS

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- Maoran Xu, Hua Zhou, Yujie Hu and Leo L. Duan. Bayesian Inference using the Proximal Mapping: Uncertainty Quantification under Varying Dimensionality. (Working Paper)
- Xu, Maoran, and Leo L. Duan. “Bayesian Inference with the  $l_1$ -ball Prior: Solving Combinatorial Problems with Exact Zeros” arXiv preprint arXiv:2006.01340 (2020).
- Xu, Maoran, 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.
- Xu, Maoran, Ziyu Wang, and Gus G. Xia. “Transferring Piano Performance Control across Environments.” In ICASSP 2019-2019 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

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

## TEACHING

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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 2023: Introduction to Statistics II
- STA 4321: Introduction to Statistical Theory
- STA 6246: Linear Models

## PRESENTATION

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2021 World Meeting of the International Society for Bayesian Analysis | *Denver, CO*

Jun 2021

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

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 ICASSP | *Brighton, UK*

May 2019

- Title: Transferring Piano Performance Control across Environment

## TECHNICAL SKILLS

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**Programming Languages:** Python, Matlab, R

**Software and Tools:** Stan, Latex, TensorFlow, Pytorch