Maoran Xu

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

Education

University of Florida Gainesville, FL
PhD in Statistics *Aug. 2018 – Present (Estimated Graduation: Aug. 2022)*
Advisor: Leo L. Duan
Research Interests: Bayesian methodologies combined with optimization tools; inference on network data

Fudan University Shanghai, CN
Bachelor of Science, Mathematics and Data Science *Aug. 2014 – May 2018*

Awards

Statistics Faculty Award for the top senior student 2020-21
University of Florida

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 review) 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." International Society for Music Information Retrieval Conference, ISMIR 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

- `l1ball`: R package for exactly sparse high-dimensional regression with the l1-ball prior.

Professional Experience

University of Florida Gainesville, FL
Teaching assistant and research assistant *Aug. 2018 – Aug. 2022*

New York University Shanghai, CN
Visiting research assistant *Nov. 2017 – May 2018*

Tongji University Shanghai, CN
Research internship *Jun. 2017 – Sep. 2017*

Teaching Experience

Instructor at the University of Florida | *Gainesville, FL* Jun. - Aug. 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 (Instructor: Stephanie Stine)
- STA 3024: Introduction to Statistics II (Instructor: Eleni Dilma)
- STA 4321: Introduction to Probability I (Instructor: Leo L. Duan)
- STA 4322: Introduction to Probability II (Instructor: Leo L. Duan)
- STA 4712: Introduction to Survival Analysis (Instructor: Deborah Burr)
- STA 6246: Linear Models (Instructor: Hani Doss)

Teaching Assistant at Fudan University | *Shanghai, CN* Mar. - Jun. 2018

- DATA130012: Data Visualization (Instructor: Xiahai Zhuang)

Presentations

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 meets Optimization

2019 Joint Statistical Meetings | *Denver, CO* Jul. 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

References

Leo L. Duan Assistant Professor
University of Florida, Department of Statistics & Informatics Institute *li.duan@ufl.edu*

Malay Ghosh Distinguished Professor
University of Florida, Department of Statistics *ghoshm@ufl.edu*

Hua Zhou Professor
University of California, Los Angeles, Department of Biostatistics *huazhou@ucla.edu*