Kan Xu

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Philadelphia, PA 19104

Education

University of Pennsylvania
Ph.D. in Economics

2018 – 2023 (Expected)

University of Chicago
M.S. in Statistics

Chicago, IL
2015 – 2017

Tsinghua University
Beijing, China
B.S. in Mathematics
2011 – 2015
B.A. in Economics

Research Interests

(Sequential) data-driven decision making: bandit algorithm, reinforcement learning Data-collaborative machine learning: multitask learning, transfer learning, federated learning High-dimensional statistics: LASSO, matrix factorization

Others: safety, robustness, natural language processing, healthcare operations, dynamic pricing

Working Papers

Learning Across Bandits in High Dimension via Robust Statistics

(with Hamsa Bastani)

[Job Market Paper]

Major Revision, Management Science

Group-Sparse Matrix Factorization for Transfer Learning of Word Embeddings (with Xuanyi Zhao, Hamsa Bastani and Osbert Bastani)

Under Review, Management Science

- Preliminary version in International Conference on Machine Learning (ICML), 2021

Robust Generalization of Quadratic Neural Networks via Function Identification (with Hamsa Bastani and Osbert Bastani)

Mind the Gap: Safely Bridging Offline and Online Reinforcement Learning (with Wanqiao Xu, Jason Yecheng Ma, Hamsa Bastani and Osbert Bastani)

Two-Stage Maximum Score Estimator

(with Wayne Gao, Sheng Xu)

Publications

Group-Sparse Matrix Factorization for Transfer Learning of Word Embeddings (with Xuanyi Zhao, Hamsa Bastani and Osbert Bastani)

International Conference on Machine Learning (ICML), 2021

Talks

Learning Across Bandits in High Dimension via Robust Statistics	
INFORMS Annual Meeting	2022
MSOM Conference	2022
RMP Conference	2022
NYC Operations Day	2022

Group-Sparse Matrix Factorization for Transfer Learning of Word Embeddings INFORMS Annual Meeting 2021 ICML Conference 2021 MSOM Conference 2021 RMP Conference 2021 INFORMS Annual Meeting 2020 Teaching Experience University of Pennsylvania Teaching Assistant, ECON 705 Econometrics I (PhD) 2020 The Wharton School, University of Pennsylvania Teaching Assistant, OIDD 612 Business Analytics (MBA) 2021 Awards and Honors

Service

Reviewer for Management Science, Operations Research

Xingmei Zhang & Yongge Dai Fellowship

Professional Experience

Moelis & Company	New York, NY
Data Science Intern	Summer 2020

Skills

Programming: Python, R, MATLAB, SQL, Bash, Git, STATA, ArcGIS

Languages: English (professional), Chinese (native)

References

Prof. Hamsa Bastani (Advisor) Operations, Information and Decisions The Wharton School hamsab@wharton.upenn.edu (215) 573 5365

Prof. Osbert Bastani

Computer and Information Science University of Pennsylvania obastani@seas.upenn.edu (215) 573 2815

Prof. Noah Gans

Operations, Information and Decisions The Wharton School gans@wharton.upenn.edu (215) 573 7673

2020 - 2021