

Kan Xu

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Political Science and Economics
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Education

University of Pennsylvania
Ph.D. in Economics

Philadelphia, PA
2018 – 2023 (Expected)

University of Chicago
M.S. in Statistics

Chicago, IL
2015 – 2017

Tsinghua University
B.S. in Mathematics
B.A. in Economics

Beijing, China
2011 – 2015
2013 – 2015

Research Interests

Data-collaborative machine learning: multitask learning, transfer learning, federated learning
(Sequential) data-driven decision making: bandit algorithms, reinforcement 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**

- Finalist, IBM Service Science Best Student Paper Award (2022)

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

The Wharton School, University of Pennsylvania	
Teaching Assistant, OIDD 612 Business Analytics (MBA)	2021
University of Pennsylvania	
Teaching Assistant, ECON 705 Econometrics I (PhD)	2020

Service

Reviewer for Management Science, Operations Research, AISTATS	
Session Chair, INFORMS Annual Meeting	2022

Awards and Honors

Finalist, IBM Service Science Best Student Paper Award	2022
Xingmei Zhang & Yongge Dai Fellowship	2020 – 2021

Professional Experience

Moelis & Company	New York, NY
Data Science Intern	Summer 2020
University of Chicago, Department of Economics	Chicago, IL
Research Specialist	2017 – 2018

Skills

Programming: Python, R, MATLAB, SQL, Bash, Git, STATA, ArcGIS
Languages: English (professional), Chinese (native)

References

Prof. Hamsa Bastani (Advisor)	Prof. Noah Gans
Operations, Information and Decisions	Operations, Information and Decisions
The Wharton School	The Wharton School
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Computer and Information Science	
University of Pennsylvania	
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