

Kan Xu

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Employment

W. P. Carey School of Business, Arizona State University
Assistant Professor of Information Systems

Tempe, AZ
2023-

Education

University of Pennsylvania
Ph.D. in Economics
Advisor: Hamsa Bastani, Wharton OID

Philadelphia, PA
2018-2024

University of Chicago
M.S. in Statistics

Chicago, IL
2015-2017

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

Beijing, China
2013-2015
2011-2015

Working Papers

Group-Sparse Matrix Factorization for Transfer Learning of Word Embeddings

Kan Xu, Xuanyi Zhao, Hamsa Bastani, Osbert Bastani
Major Revision, **Management Science**
- Preliminary version in **ICML**, 2021

Match Made with Matrix Completion: Efficient Offline and Online Learning in Matching Markets

Zhiyuan Tang, Wanning Chen, Kan Xu
Under Review, **Management Science**
- First Place, POMS-HK Best Student Paper Award (Tang, 2025)

Two-Stage Maximum Score Estimator

Wayne Gao, Sheng Xu, Kan Xu

Journal Publications

Multitask Learning and Bandits via Robust Statistics

Kan Xu, Hamsa Bastani
Management Science, 2025
- Third Place, IBM Service Science Best Student Paper Award (2022)

Optimal Multitask Linear Regression and Contextual Bandits under Sparse Heterogeneity

Xinmeng Huang, Kan Xu, Donghwan Lee, Hamed Hassani, Hamsa Bastani, Edgar Dobriban
Journal of the American Statistical Association, 2024

Refereed Conference Publications

Stochastic Bandits with ReLU Neural Networks

Kan Xu, Hamsa Bastani, Surbhi Goel, Osbert Bastani
International Conference on Machine Learning (ICML), 2024

Uniformly Conservative Exploration in Reinforcement Learning

Wanqiao Xu, Jason Yecheng Ma, Kan Xu, Hamsa Bastani, Osbert Bastani
International Conference on Artificial Intelligence and Statistics (AISTATS), 2023

Group-Sparse Matrix Factorization for Transfer Learning of Word Embeddings

Kan Xu, Xuanyi Zhao, Hamsa Bastani, Osbert Bastani
International Conference on Machine Learning (ICML), 2021

Workshops

Robust Generalization of Quadratic Neural Networks via Function Identification

Kan Xu, Hamsa Bastani, Osbert Bastani

ICML Uncertainty and Robustness in Deep Learning Workshop, 2021

ICML Overparameterization: Pitfalls & Opportunities Workshop, 2021

Students

Yu Qin, ASU Carey IS PhD (Advisor: Olivia Liu Sheng)

Zhiyuan Tang, UTD Jindal OM PhD (Advisor: Yining Wang)

Sihan Wang, USTC Undergrad

Teaching Experience

W. P. Carey School of Business, Arizona State University

Instructor, CIS 325 Programming for Business Analytics (Undergrad) Spring 2024, Spring 2025

The Wharton School, University of Pennsylvania

Teaching Assistant, OIDD 612 Business Analytics (MBA) Fall 2021

University of Pennsylvania

Teaching Assistant, ECON 705 Econometrics I (PhD) Fall 2020

Service

Journal Reviewer

Management Science, Operations Research, Manufacturing & Service Operations Management, Information Systems Research, MIS Quarterly, Journal of the American Statistical Association, Journal of the Royal Statistical Society: Series B, Journal of Machine Learning Research, INFORMS Journal on Computing, Journal of Computational and Graphical Statistics, European Journal of Operational Research

Conference Reviewer

AISTATS, ICLR, NeurIPS, ICML, CIST, ICIS, INFORMS Workshop on Data Science, MSOM SIG

Arizona State University

Faculty Recruiting Committee 2024-2025

Invited Talks

2025 AIM Conf

2024 Rotman Young Scholar Seminar; Michigan Workshop on Unstructured Data and Language Models; SJTU Antai MS; CityU College of Business IS; HKUST IEDA; HKU Business School IIM; Miami Herbert MS;

2023 CUHK Business School DSME; UTD Jindal OM; ASU Carey IS; Fudan School of Management IS; Chinese Academy of Sciences IGSNRR; ASU Carey Econ; MIT CODE; Conf on AI, ML and BA;

2022 UC Davis GSM; Cornell Johnson OTIM; JHU Carey OM;

Awards, Honors, and Grants

Third Place, IBM Service Science Best Student Paper Award 2022

Xingmei Zhang & Yongge Dai Fellowship 2020-2021, 2022-2023

Professional Experience

Moelis & Company

Data Science Intern

New York, NY

Summer 2020

University of Chicago, Department of Economics

Research Specialist

Chicago, IL

2017-2018