

# Kan Xu

The Ronald O. Perelman Center for  
Political Science and Economics  
133 South 36th Street, Suite 650  
Philadelphia, PA 19104

kanxu@upenn.edu  
(312) 560 0029  
kanxu526.github.io

## 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

## Working Papers

**Learning Across Bandits in High Dimension via Robust Statistics**  
(with Hamsa Bastani)  
Major Revision, **Management Science**

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

<b>Learning Across Bandits in High Dimension via Robust Statistics</b>	
INFORMS Annual Meeting	2022
MSOM Conference	2022
RMP Conference	2022
NYC Operations Day	2022
<b>Group-Sparse Matrix Factorization for Transfer Learning of Word Embeddings</b>	
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

Xingmei Zhang & Yongge Dai Fellowship 2020 – 2021

## Service

Reviewer for Management Science, Operations Research

## Professional Experience

### Moelis & Company

Data Science Intern

New York, NY

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. Noah Gans

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

### Prof. Osbert Bastani

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