

# SHANGE TANG

☎ 1(609)480-4379 ✉ shangetang@princeton.edu ✉ sangertang1999@gmail.com 🏠 <https://shangetang.github.io>

## Education

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### Princeton University

Sep 2021 – Current

*PhD, Operations Research and Financial Engineering (ORFE)*

- Advisors: Prof. Jianqing Fan and Prof. Chi Jin
- Research interests: statistics and machine learning, with a focus on unsupervised pretraining, transfer learning, domain adaptation, clustering and factor models

### Peking University

Sep 2017 – Jun 2021

*B.S., Mathematics and Applied Mathematics*

- Major in Probability and Statistics, Major GPA: 3.89/4.00

## Research

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\* denotes equal contribution.

### Publications

- Jiawei Ge\*, **Shange Tang\***, Jianqing Fan, Chi Jin. On the Provable Advantage of Unsupervised Pretraining. International Conference on Learning Representations (ICLR) 2024, spotlight [\[arXiv\]](#)
- Jiawei Ge\*, **Shange Tang\***, Jianqing Fan, Cong Ma, Chi Jin. Maximum Likelihood Estimation is All You Need for Well-Specified Covariate Shift. International Conference on Learning Representations (ICLR) 2024 [\[arXiv\]](#)

### Preprints

- **Shange Tang**, Soham Jana, Jianqing Fan. Factor Adjusted Spectral Clustering for Mixture Models. arXiv preprint arXiv:2408.12564 (2024) [\[arXiv\]](#)

## Awards

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- Peking University Scholarship Nov 2020
- Academic Excellent Award, Peking University Nov 2018, 2019, 2020
- Yizheng Scholarship, Peking University Nov 2019
- May 4th Scholarship, Peking University Nov 2018
- First Prize in the Chinese Mathematical Competition Nov 2018
- Elite Scholarship, School of Mathematical Sciences, PKU Aug 2018
- Gold Medal in Russian Mathematical Olympiad (RMO) Apr 2016
- Gold Medal in 31st Chinese Mathematical Olympiad (CMO) Dec 2015

## Invited Talks

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- “Maximum Likelihood Estimation is All You Need for Well-Specified Covariate Shift,” UIUC Machine Learning Seminar, Mar 2024.

## Employment

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### Princeton University

Sep 2022 – Current

*Assistant in Instruction*

- COS 511: Theoretical Machine Learning, Fall 2023
- ORF 245: Fundamentals of Statistics, Spring 2023, Spring 2024
- ORF 309: Probability and Stochastic Systems, Fall 2022

## Relevant Skills

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**Languages:** English, Chinese

**Programming:** Python; L<sup>A</sup>T<sub>E</sub>X; R