

# Xuzhi YANG

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## Education

### London School of Economics and Political Science

London, UK Sep. 2021 - Sep. 2025

- PhD student in Data Science group, Department of Statistics
- Advisors: [Tengyao Wang](#) and [Yining Chen](#)

### Harbin Institute of Technology

Shenzhen, China Sep. 2018 - Jul. 2020

- Master of Science, major in Statistics (joint program with [SUSTech](#))
- Advisors: [Guoliang Tian](#) and [Shurong Zheng](#)

### Northeast Normal University





Changchun, China Sep. 2014 - Jul. 2018

- Bachelor of Science, major in Statistics
- GPA: 86/100; *summa cum laude*

## Research Interests

Optimal transport, rank-based methods, nonparametric statistics, conformal prediction, distribution shift

## Publications & Preprints

- [1] **Xuzhi Yang** and Tengyao Wang. (2024) Multiple-output composite quantile regression through an optimal transport lens. *COLT 2024: 5076-5122*. 
- [2] **Xuzhi Yang\*** and Tao Ma\*. (2024) A framework for policy evaluation enhancement by diffusion models. **Invited to present** at *Tiny Paper @ ICLR 2024*. (\*equal contribution) 
- [3] Tao Ma, **Xuzhi Yang**, Zoltán Szabó. (2024) To switch or not to switch? Balanced policy switching in offline reinforcement learning. *arXiv: 2407.01837*. 
- [4] Gayathri Delanerolle, **Xuzhi Yang**, Suchith Shetty, Vanessa Raymont, Ashish Shetty, Peter Phiri, Dharani K Hangama, Nicola Tempest, Kingshuk Majumder, Jian Qing Shi. (2021) Artificial intelligence: a rapid case for advancement in the personalization of gynaecology/obstetric and mental health care. *Women's Health (Lond)*. 
- [5] **Xuzhi Yang**, Mona Azadkia and Tengyao Wang. (2025+) A coverage coefficient of correlation for implicit functional dependence. *Preprint coming soon*.

## Selected Presentations

Workshop on uncertainty in multivariate, non-Euclidean and functional spaces, Issac Newton institute	May. 2025
Department of Statistics research showcase day, LSE	April. 2025
Workshop on heterogeneous and distributed data, University of Warwick	Jun. 2024
(Invited) Conference on Learning Theory, University of Alberta	Jun. 2024
(Invited) Seminar at the School of Mathematics and Statistics, Northeast Normal University	Jul. 2023

## Awards & Honors

COLT 2024 Student Travel Award	Jul. 2024
LSE Postgraduate Travel Award	May 2024
LSE Class Teacher Award	Apr. 2023
Northeast Normal University Outstanding Graduates (top 0.5%)	Jul. 2018
Chinese Government National Scholarship (rank 1 institute-wide)	Nov. 2017
Honorable Mention, COMAP Mathematical Contest in Modeling	May 2017

## Reviewing

Journal of the Royal Statistical Society Series B, ICLR, AISTATS

## Teaching Experience

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### Graduate Teaching Assistant at LSE

ST102 Elementary Statistical Theory (1st year)

*Sep. 2021 - Sep. 2025*

ST457 Graph Data Analytics and Representation Learning (master)

*Oct. 2022 - Jan. 2023*

ST447 Data Analysis and Statistical Methods (master)

*Oct. 2022 - Jan. 2023*

### Graduate Teaching Assistant at SUSTech

STA5004 Functional Data Analysis (master)

*Feb. 2021 - Jun. 2021*

MA204 Mathematical Statistics (2nd year)

*Feb. 2020 - Jun. 2020*

## Skills & Others

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**Operation system:** Ubuntu, Arch, Windows, Mac

**Programming:** Python, R, C, Bash,  $\text{\LaTeX}$ , MATLAB

**Data Analysis:** PyTorch, pandas, NumPy, SciPy, scikit-learn, Keras

**Language:** Chinese (native), English (fluent)