

# Xuzhi YANG

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## 🎓 Education

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### London School of Economics and Political Science

London, UK Sep. 2021 - present

- 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
- Advisor: Binghui Liu

## 😊 Research Interests

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Optimal transport theory and its applications in robust statistics, nonparametric statistics and diffusion model.

## 📖 Publications & Preprints

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- [1] **Xuzhi Yang**, Mona Azadkia and Tengyao Wang. (2024+) A coefficient of correlation for implicit functional dependence. *Manuscript*
- [2] Tao Ma, **Xuzhi Yang**, Zoltán Szabó. (2024) To switch or not to switch? Balanced policy switching in offline reinforcement learning. *arXiv: 2407.01837*. [📄](#)
- [3] **Xuzhi Yang** and Tengyao Wang. (2024) Multiple-output composite quantile regression through an optimal transport lens. *COLT 2024: 5076-5122*. [📄](#)
- [4] Tao Ma\* and **Xuzhi Yang**\*. (2024) A framework for policy evaluation enhancement by diffusion models. **Invited to present** at *Tiny Paper @ ICLR 2024*. (\*equal contribution) [📄](#)
- [5] Gayathri Delanerolle, **Xuzhi Yang**, Suchith Shetty, Vanessa Raymont, Ashish Shetty, Peter Phiri, Dharani K Hangangama, 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)*. [📄](#)

## 🎤 Selected Presentations

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Workshop on heterogeneous and distributed data, University of Warwick Jun. 2024  
Seminar at the School of Mathematics and Statistics (invited), Northeast Normal University Jul. 2023  
Department of Statistics research showcase, LSE Jun. 2023

## 🏆 Awards & Honors

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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

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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 - present*

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

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