

Xuzhi YANG

PhD student in Data Science Group

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🎓 Education

- London School of Economics and Political Science (LSE),** London, UK Sep. 2021 - present
- PhD student in Data Science group, Department of Statistics
 - Advisors: [Tengyao Wang](#) and [Yining Chen](#)
- Harbin Institute of Technology (HIT),** 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 (NENU),** Changchun, China Sep. 2014 - Jul. 2018
- Bachelor of Science, major in Statistics
 - Advisor: Binghui Liu

😊 Research Interests

Optimal transport theory, robust statistics, nonparametric statistics, generative model, theoretical machine learning

📖 Publications & Preprints

(* stands for equal contribution.)

- [1] Xuzhi Yang and Tengyao Wang. (2024+) A coefficient of correlation for implicit functional dependence. *Manuscript*
- [2] Tao Ma, Xuzhi Yang, Zoltan Szabo. (2024) To switch or not to switch? Balanced policy switching in offline reinforcement learning. *Preprint* [🔗](#)
- [3] Xuzhi Yang and Tengyao Wang. (2024) Multiple-output composite quantile regression through an optimal transport lens. *COLT 2024* [🔗](#)
- [4] Tao Ma* and Xuzhi Yang*. (2024) A framework for policy evaluation enhancement by diffusion models. **Invited to present** at *ICLR 2024 Tiny Paper* [🔗](#)
- [5] 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* [🔗](#)

🎤 Selected Presentations

- (Contributed Talk) "A mathematical introduction of diffusion model", Tengyao's group meeting, LSE, July, 2024.
- (Contributed Poster) "Multiple-output composite quantile regression through an optimal transport lens", [Workshop on heterogeneous and distributed data](#), University of Warwick, June, 2024
- (Invited Talk) "Multiple-output composite quantile regression through an optimal transport lens", Seminar at the School of Mathematics and Statistics, NENU, July, 2023

🏆 Awards & Honors

COLT2024 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

Teaching Experience

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

Academic Service

Referee for the Journal of the Royal Statistical Society, Series B.

Skills & Others

Programming: Python, R, Bash, \LaTeX , MATLAB

Language: Chinese (native), English (fluent)