Xuzhi YANG

PhD student in Data Science Group, LSE

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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 Hapangama, 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 journal:
Journal of the Royal Statistical Society, Series B.
Referee for conference:
ICLR

🧰 Skills & Others

Programming: Python, R, C, Bash, LaTeX, MATLAB
Language: Chinese (native), English (fluent)