Shang Liu

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EDUCATION

Ph.D. of Operations and Analytics
Business School, Imperial College London (ICL), London, UK.   *Sept. 2022 – Jun. 2026 (Expected)*
Advisor: Prof. Xiaocheng Li

Master of Research of Operations and Analytics (Distinction)
Business School, Imperial College London (ICL), London, UK.   *Sept. 2021 – Jun. 2022*

Bachelor of Mathematics
School of Mathematical Sciences, Peking University (PKU), Beijing, China.   *Sept. 2016 – Jun. 2021*

RESEARCH

Online Bin Packing with Known T
Shang Liu, Xiaocheng Li, *under Major Revision at Mathematics of Operations Research*, arXiv

Non-stationary Bandits with Knapsacks
Shang Liu, Jiashuo Jiang, Xiaocheng Li, *NeurIPS 2022*, arXiv

Maximum Optimality Margin: A Unified Approach for Contextual Linear Programming and Inverse Linear Programming
Chunlin Sun*, **Shang Liu***, Xiaocheng Li, *ICML 2023*, arXiv

Distribution-Free Model-Agnostic Regression Calibration via Nonparametric Methods
Shang Liu*, Zhongze Cai*, Xiaocheng Li, *NeurIPS 2023*, arXiv

Understanding Uncertainty Sampling
Shang Liu, Xiaocheng Li, *submitted*, arXiv

When No-Rejection Learning is Consistent for Regression with Rejection
Xiaocheng Li, **Shang Liu**, Chunlin Sun, Hanzhao Wang, *AISTATS 2024*, arXiv

Towards Better Statistical Understanding of Watermarking LLMs
Zhongze Cai*, **Shang Liu***, Hanzhao Wang*, Huaiyang Zhong, Xiaocheng Li, arXiv

Understanding the Training and Generalization of Pretrained Transformer for Sequential Decision Making
Hanzhao Wang*, Yu Pan*, Fupeng Sun, **Shang Liu**, Kalyan Talluri, Guanting Chen, Xiaocheng Li, arXiv

Towards Better Understanding of In-Context Learning Ability from In-Context Uncertainty Quantification
Shang Liu*, Zhongze Cai*, Guanting Chen, Xiaocheng Li, arXiv

Reward Modeling with Ordinal Feedback: Wisdom of the Crowd
Shang Liu*, Yu Pan*, Guanting Chen, Xiaocheng Li, arXiv

*: equal contribution

PRIZES & AWARDS

Dean's List for Academic Excellence at Imperial College Business School, 2021/2022
Outstanding Graduate of Peking University, 2021
Wusi Scholarships at Peking University, 2016/2017, 2017/2018

SEVICE

TEACHING

TA: Machine Learning, Spring 2024, Imperial College London