

# Shang Liu

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## EDUCATION

### Ph.D. of Operations and Analytics

Business School, Imperial College London (ICL), London, UK.  
Advisor: Prof. Xiaocheng Li

*Sept. 2022 – Jun. 2026 (Expected)*

### 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*

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## 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, *accepted at NeurIPS 2022*, [arXiv](#)

### Maximum Optimality Margin: A Unified Approach for Contextual Linear Programming and Inverse Linear Programming

Chunlin Sun\*, Shang Liu\*, Xiaocheng Li, *accepted at ICML 2023*, [arXiv](#)

### Distribution-Free Model-Agnostic Regression Calibration via Nonparametric Methods

Shang Liu\*, Zhongze Cai\*, Xiaocheng Li, *accepted at 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, *accepted at AISTATS 2024*, [arXiv](#)

### Towards Better Statistical Understanding of Watermarking LLMs

Zhongze Cai\*, Shang Liu\*, Hanzhao Wang\*, Huaiyang Zhong, Xiaocheng Li, [arXiv](#)

\*: *equal contribution*

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## 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