

# 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*  
<https://doi.org/10.48550/arXiv.2112.03200>

### Non-stationary Bandits with Knapsacks

Shang Liu, Jiashuo Jiang, Xiaocheng Li, *accepted at NeurIPS 2022*  
<https://doi.org/10.48550/arXiv.2205.12427>

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

Chunlin Sun\*, Shang Liu\*, Xiaocheng Li, *in progress*

### Sharp Analysis for Underdamped Langevin Monte Carlo in Non-convex Setting

Shang Liu, Xiaocheng Li, *in progress*

*\*: 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