SHILIN YUAN

EDUCATION

Tsinghua University, Beijing, China

Aug.2021 -Present

Ph.D. Candidate in Applied Mathematics Advisor: Prof. Jinxing Xie

Huazhong University of Science and Technology, Wuhan, China

Aug.2017 –July 2021

B.S. in Mathematics and Applied Mathematics

RESEARCH INTERESTS

Methodology: Online Learning and Optimization, Asymptotic Analysis.

Application: Operations Management, especially Inventory Management and Revenue Management.

WORKING PAPERS

- [1] (Alphabetic) Jiameng Lyu, Jinxing Xie, **Shilin Yuan**, Yuan Zhou. A Minibatch-SGD-Based Learning Meta-Policy for Inventory Systems with Myopic Optimal Policy. Under major revision at *Management Science*.
- [2] (Alphabetic) Xin Chen, Jiameng Lyu, **Shilin Yuan**, Yuan Zhou. Learning in Lost-Sales Inventory Systems with Stochastic Lead Times and Random Supplies. Submitted.
- [3] **Shilin Yuan**, Jiameng Lyu, Jinxing Xie, Yuan Zhou. Asymptotic Optimality of Base-Stock Policies for Lost-Sales Inventory Systems with Stochastic Lead Times. Submitted.

WORK IN PROCESS

- [1] (Alphabetic) Jiameng Lyu, **Shilin Yuan**, Bingkun Zhou, Yuan Zhou. Closing the Gaps: Optimality of Sample Average Approximation for Data-Driven Newsvendor Problems.
- [2] (Alphabetic) Xin Chen, Jiameng Lyu, **Shilin Yuan**, Yuan Zhou. Nonstationary Sample Average Approximation with Applications in Inventory Management.
- [3] Asymptotic Optimality of (s, S) Policies for Perishable Inventory Systems with Fixed Ordering Costs.

PROFESSIONAL SERVICES

• **Reviewer:** Operations Research

• Session chair: 14th POMS-HK International Conference

Honors and Awards

Excellent Undergraduate (Top 1%)
Honored Bachelor's Degree (Top 1%)
June 2021

• Outstanding Graduate June 2021

TEACHING EXPERIENCES

Tsinghua University:

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• Teaching Assistant: Introduction to Mathematical Modelling (00420152)	Autumn 2021
• Teaching Assistant: Mathematical Experiments (10420854)	Spring 2022
• Teaching Assistant: Introduction to Mathematical Modelling (00420152)	Autumn 2022
• Teaching Assistant: Mathematical Models (00420033)	Spring 2023
• Teaching Assistant: Mathematical Programming II (70420624)	Autumn 2023
• Teaching Assistant: Modern Optimization Methods (60420174)	Spring 2024

TALKS

- A Minibatch-SGD-Based Learning Meta-Policy for Inventory Systems with Myopic Optimal Policy.
 - 14th POMS-HK International Conference

2024

MISCELLANEOUS

• Programming Skill: MATLAB, Python