

Shuai Li

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Education

Georgia Institute of Technology, Ph.D. Candidate in Operations Research Aug 2022 - Jun 2027

- **Minor:** Computer Science
- **Advisor:** Dr. Xin Chen and Dr. Weijun Xie

Fudan University, B.S. in Economics and Minor in Statistics Aug 2018 - Jun 2022

Reserch Interests

Theory: Optimization, Approximation Algorithm

Application: Inventory Control, Game Theory and Mechanism Design, Revenue Management

Papers

The Optimality Gap of Tailored Base-Surge Policies Decays Exponentially in the Lead Time for Dual Sourcing Models Submitted to MS
(alphabetic) Xin Chen, **Shuai Li**, Weijun Xie

Isotonic Optimization with Fixed Costs Major revision at OR
(alphabetic) Xin Chen, **Shuai Li**, Weijun Xie

Integrating Market Selection, Inventory Control, and Pricing Decisions Minor revision at IJOO
(alphabetic) Xin Chen, **Shuai Li**, Weijun Xie, Haojie Yan

Joint Assortment Optimization and Marketing Mix Allocation *M&SOM*
Shuai Li, Zikun Ye, Xin Chen, Weijun Xie

Assortment Optimization in the Presence of Context Effects Minor revision at *M&SOM*
Reza Yousefi Maragheh, **Shuai Li**, Tiancheng Zhao, Xin Chen,
James Davis, Jason Cho, Sushant Kumar, Kannan Achan

Research Experience

Optimization on Inventory Control and Revenue Management Sept 2022 - present
Advised by Dr. Xin Chen and Dr. Weijun Xie

Importance Sampling for Measure of Rare Event Probability Jan 2021-June 2022
Advised by Dr. Cheng-der Fuh

Internship

Ph.D. Research Aide Technical, Argonne National Lab – Lemont, IL May 2024 - Aug 2024

Research Scientist Intern, SF Express Co. Ltd – Shenzhen June 2023 - Aug 2023

Research Assistant in Financial Derivatives, Shenghe International Trade Co., Ltd – Shanghai Jul 2020 - Aug 2020

Talks

MIP Workshop (Poster Session) Stamford, CT, May 2026

POMS-HK Hong Kong, CHN, Jan 2026

INFORMS Annual Meeting Atlanta, GA, USA, Oct 2025

IISE Annual Meeting	Atlanta, GA, USA, June 2025
INFORMS Annual Meeting	Seattle, WA, USA, Oct 2024
First-year Ph.D. seminar at Georgia Tech	Atlanta, Georgia, USA, 2023

Awards

Informs Student Chapter Spotlight	Georgia Tech 2025
First-year Ph.D. fellowship	Georgia Tech 2022, 2023
Outstanding Student Scholarship	Fudan University 2019, 2021

Academic Service

Journal Reviewer: Naval Research Logistics, Networks

Coursework

- **Graduate:** Linear Optimization, Nonlinear Optimization, Discrete Optimization, Advanced Combinatorial Optimization, Theory of Linear Inequalities, Advanced Integer Optimization, Stochastic Optimization, Design and Analysis of Algorithms, Randomized Algorithm, Stochastic Process I,II
- **Undergraduate:** Regression Analysis, Multivariate Statistical Analysis, Cross Section and Panel Data, Statistical Inference, Time Series Analysis, Nonparametric Statistics, Stochastic Process and Stochastic Analysis, Simulation, Software for Statistics and Econometrics, Real and Functional Analysis, Differential Equation

Skills

Programming Languages: Python (Proficient), C++ (Proficient), R (Proficient), MATLAB (Basic), Stata (Basic)

Languages: Mandarin Chinese, English