

EDUCATION

Massachusetts Institute of Technology

Cambridge, MA

Ph.D. in Operations Research, Advisor: Thodoris Lykouris

2022–Current

- Research Interests: Sequential Decision Making for Economic Environments, Economics and Computation, Online Algorithms, Online Marketplaces and Platforms
- Relevant Courses: Statistical Reinforcement Learning, Machine Learning, Inference and Information, Nonlinear Optimization, Probability, Linear Programming, Inventory Management, Revenue Management, GPA: 5/5

Princeton University

Princeton, NJ

A.B. in Mathematics, Magna Cum Laude, GPA: 3.968/4

2018–2022

- Relevant Courses: Probability Theory, High-Dimensional Probability, Stochastic Calculus, Statistical Theory, Machine Learning, Stochastic Control, Complex and Real Analysis, Combinatorics, Graph Theory, Algebra

PAPERS

- **Optimal Exploration of New Products under Assortment Decisions**
with Jackie Baek and Thodoris Lykouris
 - Working paper
- **Social Learning with Limited Attention: Negative Reviews Persist under Newest First**
with Jackie Baek and Thodoris Lykouris
 - Major Revision at Operations Research
 - 25th ACM Conference on Economics and Computation (EC), 2024
 - Finalist for INFORMS Junior Faculty Interest Group Paper Competition (JFIG), 2025
 - Accepted for presentation to the MSOM Service Science SIG, 2025
 - arXiv link: <https://arxiv.org/abs/2406.06929>
- **Simple and Optimal Online Contention Resolution Schemes for k -Uniform Matroids**
with S. Matthew Weinberg
 - Innovations in Theoretical Computer Science (ITCS), 2024
 - arXiv link: <https://arxiv.org/abs/2309.10078>
- **Tight Bounds on 3-Team Manipulations in Randomized Death Match**
with S. Matthew Weinberg
 - Conference on Web and Internet Economics (WINE), 2022
 - arXiv link: <https://arxiv.org/abs/2301.07862>

TALKS

- **Optimal Exploration of New Products under Assortment Decisions**
 - Conference on Digital Experimentation @ MIT (CODE@MIT 2025), November 2025
- **Social Learning with Limited Attention: Negative Reviews Persist under Newest First**
 - INFORMS Manufacturing and Service Operations Management Conference SIG (MSOM SIG 2025), June 2025
 - Marketplace Innovation Workshop (MIW 2025), May 2025
 - INFORMS Annual Meeting (INFORMS 2024), October 2024
 - INFORMS Revenue Management and Pricing Section Conference (RMP 2024), July 2024

- 25th ACM Conference on Economics and Computation (EC 2024), July 2024
- INFORMS Manufacturing and Service Operations Management Conference (MSOM 2024), June 2024
- **Simple and Optimal Online Contention Resolution Schemes for k -Uniform Matroids**
 - Innovations in Theoretical Computer Science (ITCS), 2024
- **Tight Bounds on 3-Team Manipulations in Randomized Death Match**
 - Conference on Web and Internet Economics (WINE), 2022

HONORS AND AWARDS

- Phi Beta Kappa, *Princeton University* May 2022
- Sigma Xi, *Princeton University* May 2022
- Shapiro Prize For Academic Excellence, *Princeton University*, Top 2-3% of class Sep 2020
- International Mathematical Olympiad 2016, 2017, 2018
2016 - *Bronze Medal*, 2017 - *Bronze Medal*, 2018 - *Bronze Medal*
- William Lowell Putnam Mathematical Competition - Top 200 out of 4000 2018, 2019
- Balkan Mathematical Olympiad 2016, 2017, 2018
2016 - *Silver Medal*, 2017 - *Gold Medal*, 2018 - *Silver Medal*
- East Coast Regional Datathon, Citadel, Citadel Securities, and Correlation One - Top 8 out of 30 Feb 2019

TEACHING EXPERIENCE

- **Teaching Assistant, Data, Models, and Decisions (15.060)**, MIT Fall 2024
Graduate, MBA Core Course, 400 students
- **Head Teaching Assistant, The Analytics Edge (15.071)**, MIT Spring 2024
Graduate, MBA Course, 200 students
- **Princeton University, Teaching Assistant** Spring 2022
Economics and Computation (COS 445), Undergraduate, 200 students

INDUSTRY EXPERIENCE

- Citadel Securities LLC** New York, NY
Quantitative Trading Intern Summer 2021
 - Learned about financial markets; built time series model for ETF returns; analyzed counterparty accumulation.
- Aquatic Capital Management** Chicago, IL
Research Intern Summer 2020
 - Investigated a coordinate descent algorithm and optimized its performance on elastic net for large datasets.

ACADEMIC SERVICE

- Seminar Coordinator, MIT Operations Research Center (ORC)** Spring 2025
 - Organize and coordinate weekly seminars featuring invited speakers in operations research and related fields.

SKILLS

Advanced: Python, R, Numpy, Pandas, scikit-learn, statsmodels, \LaTeX , Power Point
Intermediate: Git, GitHub, Julia, JuMP, Gurobi, Java, Excel
Basic: Matlab, C++