

Rigel Galgana

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EDUCATION

- **Massachusetts Institute of Technology** Cambridge, MA, USA
GPA: 5.00; PhD in Operations Research, advised by Negin Golrezaei Sept 2022 - May 2027 (Anticipated)
- **Brown University** Providence, RI, USA
GPA: 3.87; Magna Cum Laude; Departmental Honors Sept 2016 - May 2020
BSc (Honors) in Applied Mathematics-Computer Science and BA in Mathematics-Economics

PUBLICATIONS AND WORKING PAPERS

- **Robust Multi-Unit Demand Autobidding Auctions:** Under Review at Management Science, with Negin Golrezaei, Yifeng Teng. (Job Market Paper)
- **Gap Based Learning in Multi-unit Markets:** Under Review at Operations Research, with Negin Golrezaei
- **Moneyless Allocation with Heterogeneous Durations:** Working Paper, with Negin Golrezaei, Yifeng Teng
- **Weak Mean Based Algorithms:** Under Review at AISTats, with Zezheng Lyu
- **Best Response Convergence:** Under Review at ICLR
- **Too Many Papers to Review: When Less is More:** Working Paper, with Farrell Wu
- **Convergence of FTRL Dynamics in First Price Auctions:** Working Paper
- **The Risks and Rewards of User Expressiveness in Revenue-Driven Recommendation:** Accepted to NeurIPS MLxOR, with Yeganeh Alimohammadi, Negin Golrezaei
- **Learning to Bid in Multi-Unit Pay-as-bid Auctions:** Journal of Manufacturing and Service Operations (MSOM) 2025 with Negin Golrezaei
- **A Dynamic Program for Computing the Joint Cumulative Distribution Function of Order Statistics:** SIAM ACDA 2021 with Amy Greenwald, Cengke Shi, Takehiro Oyakawa
- **Computing Boundary Crossing Probabilities of General Empirical Processes:** SIAM ACDA 2023 with Amy Greenwald, Takehiro Oyakawa
- **Efficiently Sampling Order Statistics:** with Cyrus Cousins, Shamay Samuel

WORK EXPERIENCE

- **AQR Capital Management** Greenwich, CT, USA
Portfolio Implementation Analyst Summer 2019, July 2020 - Feb 2022
 - **Responsibilities:** Oversaw Macro Alternative Premia systematic fund implementations; Systematized and analyzed merger arbitrage discretionary strategies; Improved fixed income risk hedging procedure and transaction cost model

RESEARCH EXPERIENCE

- **Massachusetts Institute of Technology** Cambridge, MA, USA
Graduate Research Assistant Sept 2022-Present
 - **Negin Golrezaei:** Online learning, algorithmic game theory, combinatorial auctions
- **Stanford University** Palo Alto, CA, USA
Visiting Student Researcher July 2025-July 2026
 - **Negin Golrezaei, Yeganeh Alimohammadi:** Online learning, AI-assisted product search
- **Brown University** Providence, RI, USA
Undergraduate Research Assistant June 2018 - May 2020
 - **Amy Greenwald, E-GLAMOR Lab:** Computational statistics, algorithmic game theory, sponsored search auctions

TEACHING EXPERIENCE

Spring 2025 (MIT): Introduction to Operations Management (MIT, Graduate TA)

Fall 2018 - Spring 2020 (Brown): Introductory Probability & Statistics, Introductory Machine Learning, Mathematical Statistics, Algorithm Design and Analysis, Combinatorial Optimization, Algorithmic Game Theory

HONORS AND AWARDS

2020: Computing Research Association, Undergraduate Researcher Award (H. Mention), Sigma Xi nomination, Applied Math-Computer Science departmental honors

2018-2020: Brown University UTRA, Undergraduate Teaching and Research Award (research 2018, teaching 2019-2020)