

AKHIL SINGLA

Postdoctoral Scholar, IEMS, Northwestern University

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Research Interests: Supply Chain & Service Operations, Data-driven decision-making, Game Theory.

EDUCATION

Ph.D. Candidate in Industrial Engineering and Management Sciences (Sep 2019 - Aug 2024)

Northwestern University, Evanston, IL

Advisor: Prof. Seyed Iravani

M.Sc. Industrial Engineering and Management Sciences (IEMS) (June 2020)

Northwestern University, Evanston, IL

B.Tech. in Industrial and Production Engineering (July 2015 - May 2019)

Indian Institute of Technology, New Delhi, India

PUBLICATION

Singla A., Iravani S. (2024). "Optimal Control of Join Decision in Fork-Join Queues" (under review).

Hopp W.J., Iravani S., Singla A. (2023). "Tactical and Strategic Risks from Supply Chain Disruptions" (Manuscript under preparation).

Duenyas Izak, Iravani S., Singla A. (2024). "Optimal Product Launch Times for Firms with Niche Product" (Working Paper).

Najjafi S., Duenyas I., Singla A. (2024). "Price Markodowns to Induce Customers to Opt Out of Free Returns" (under review).

Singla A., Wilson J.H. (2024). "Design of Non-Profit Police Operations" (Working INFORMS Transaction on Education case).

TECHNICAL STRENGTHS

- Software/Languages: Python, R, MATLAB, C#, LaTeX, Gurobi, AMPL, Julia
- Related Packages: NumPy, scikit-learn, Tensorflow, Keras, Tikz, ggplot.

TEACHING EXPERIENCE

Instructor: IEMS 310 Operations Research, IEMS Boot Camp Python Course

Teaching Assistant: IEMS 381 Supply Chain Modelling and Analytics, IEMS 382 Operations Management, IEMS 383 Service Operations and Engineering, STRT 469 Topics in Managerial Analytics, MSIA 440 Optimization and Heuristics.

LEADERSHIP SKILLS

- *Session Chair* for INFORMS Annual Meeting organized in Phoenix, AZ (Oct 14-17, 2023).
- *Session Chair* for INFORMS Annual Meeting organized in Indianapolis, IN (Oct 16-19, 2022).
- *IEMS Student Leadership Award* for exceptional leadership and service during 2021-22 Academic year
- *Co-President* INFORMS Student Chapter, Northwestern University (June 2021 - May 2022)
- *Session Chair* for INFORMS Annual Meeting organized in Anaheim, CA (Oct 24-27, 2021).
- *IEMS Student Leadership Award* for exceptional leadership and service during 2020-21 Academic year
- *Treasurer* of INFORMS Student Chapter, Northwestern University (June 2020 - May 2021).
- Coordinated the Slum Development Program, for uplifting people living in slums (2015-2019).

COURSEWORK

Applied Mathematical Statistics (IEMS 401), Stochastic Simulation (IEMS 435), Large Scale Optimization (IEMS 454), Dynamic Optimization in Economics (MECS 560), Robust Optimization (IEMS 453), Predictive Analytics (IEMS 462), Operations (IEMS 480), Game Theory & Mechanism Design (ECON 410-3), Information Economics (ECON 414-1,ECON 414-3), Empirical Methods in OM (OPNS 524), IEMS 490 Statistical Learning

TALKS & PRESENTATIONS

- Presented in IISE 2024 Conference on “Design and Control Principles for Supply Chains and Service Operations.”
- Presented in INFORMS 2023 Annual Meeting on “Optimal Control of Join Decisions in Fork-Join Queues.”
- Presented in INFORMS 2022 Annual Meeting on “Tactical and Strategic Risks in Supply Chains.”

HONORS AND AWARDS

- Co-Winner of Nemhauser Best Student Paper Award (2024)
- Awarded *Walter P. Murphy* Fellowship (2019-2020)
- Awarded the institute level *Merit-cum-Means* Scholarship for Undergraduate studies (2015-2019).

Date: 09/23/2024