

EMPLOYMENT	<b>Yale University</b> , New Haven, CT 07/2025 – 06/2026 Postdoctoral Researcher at Center for Algorithms, Data and Market Design
EDUCATION	<b>Columbia University, Graduate School of Business</b> , New York, NY 09/2020 – 06/2025 Ph.D. candidate in Decision, Risk and Operations division. Advisors: Prof. Omar Besbes and Prof. Yash Kanoria  <b>University of Michigan</b> , Ann Arbor, MI 07/2018 – 05/2020 Master of Science in Electrical and Computer Engineering. Advisor: Prof. Vijay Subramanian  <b>Indian Institute of Technology Madras</b> , Chennai, India 08/2014 – 05/2018 Bachelor of Technology in Electrical Engineering, minor in Robotics. Advisor: Prof. Rahul Vaze, Tata Institute of Fundamental Research
RESEARCH INTERESTS	I am broadly interested in the operations of online platforms. In particular, I develop models and methods to optimize the operations of these online platforms, with applications in order fulfillment, revenue management, matching markets and recommendation systems.
JOURNAL PUBLICATIONS	<b>Feature-Based Dynamic Matching</b> with Yilun Chen, Yash Kanoria and Wenxin Zhang. <i>Forthcoming in Operations Research</i> • Appeared as an extended abstract in <i>EC'23: ACM Conference on Economics and Computation</i> . ★ Finalist, 2025 Michael H. Rothkopf Junior Researcher Paper Prize ★ First Place, 2024 Jeff McGill RMP Best Student Paper Prize  <b>Dynamic Resource Allocation: Algorithmic Design Principles and Spectrum of Achievable Performances</b> with Omar Besbes and Yash Kanoria. <i>Operations Research</i> 73(3):1273-1288 • An earlier version appeared with the title “ <b>The Multi-secretary problem with many types</b> ” as an extended abstract in <i>EC'22: ACM Conference on Economics and Computation</i> . ★ Second Place, 2024 Michael H. Rothkopf Junior Researcher Paper Prize ★ Finalist, 2023 INFORMS George Nicholson Student Paper Competition ★ Finalist, 2023 Jeff McGill RMP Best Student Paper Prize
WORKING PAPERS	<b>What Is Your AI Agent Buying? Evaluations, Implications and Emerging Questions for Agentic E-Commerce</b> with Amine Allouah, Omar Besbes, Josue Figueroa and Yash Kanoria. <i>Under Review</i> • Accepted for WISE 2025 and MIT CODE 2025  <b>Impact of Rankings and Personalized Recommendations in Marketplaces</b> with Omar Besbes and Yash Kanoria. <i>Journal Version Under Preparation</i> • Appeared as an extended abstract in <i>EC'25: ACM Conference on Economics and Computation</i>  <b>The Fault in Our Recommendations: On the Perils of Optimizing the Measurable</b> with Omar Besbes and Yash Kanoria. <i>Journal Version Under Preparation</i> • An earlier version appeared in <i>RecSys'24: ACM Conference on Recommender Systems</i>
CONFERENCE PUBLICATIONS	<b>From Qualification Exams to Practice: Testing LLMs on Solving Stochastic Modeling Problems</b> with Tianyi Peng, Yuhang Wu and Assaf Zeevi. <i>WSC'25: Proceedings of the 2025 Winter Simulation Conference</i>  <b>MOTIF: Multi-Objective Tradeoff in F2P</b> with Jikai Zou, Andrea Qualizza, Neo Huang, Shereif Reda and Yash Kanoria. <i>CSS'25: 2025 Amazon Consumer Science Summit</i>  <b>Breaking the Unit Throughput Barrier in Distributed System</b> with Parikshit Hegde, Rahul Vaze, Amira Alloum, Cedric Adjih. <i>NCC'23: 29th National Conference on Communications</i>

**Low-cost aerial imaging for small holder farmers** with Ranveer Chandra et al. *COMPASS '19: Proceedings of the 2nd ACM SIGCAS Conference on Computing and Sustainable Societies*  
★ Best Paper Award at COMPASS'19

**Speed scaling under QoS constraints with finite buffer** with Parikshit Hegde and Rahul Vaze. *WiOpt'18: 16th International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks*.

#### AWARDS

Finalist, Michael H. Rothkopf Junior Researcher Paper Prize, 2025  
First Place, Jeff McGill RMP Best Student Paper Prize, 2024  
Second Place, Michael H. Rothkopf Junior Researcher Paper Prize, 2024  
Rising Star, Stanford Management Science and Engineering, 2024  
Finalist, INFORMS George Nicholson student paper competition, 2023  
Finalist, Jeff McGill RMP Best Student Paper Prize, 2023  
Deming Doctoral Fellowship, Columbia Business School, 2023-2024  
Narula Doctoral Fellowship, Columbia Business School, 2023  
Best Paper Award, COMPASS'19, 2019  
Industry Category Winner at Microsoft Global Hackathon, 2016  
Recipient of Kishore Vaigyanik Protsahan Yojana (KVPY) Fellowship by Government of India, 2014  
Recipient of National Talent Search Examination (NTSE) scholarship by Government of India, 2011

#### PATENTS

US20180213186 A1 *Low-cost, Long-term Aerial Imagery*  
US20180213187 A1 *Aerial imaging of a region using above ground aerial camera platform*

#### INDUSTRY INTERNSHIPS

**Amazon**, Bellevue, Washington June 2023 - September 2023  
Designed algorithms for multi-objective optimization for order fulfillment problems.

**Nokia Bell Labs**, Paris, France May 2018 - August 2018  
Developed decoding schemes for distributed wireless systems with applications in 5G.

**Microsoft Research**, Bangalore, India June 2016 - August 2016  
Built low cost solutions to enable precision agriculture for small farm holders.  
★ Industry Category Winner at Microsoft Global Hackathon

#### TEACHING EXPERIENCE

**Columbia University, Teaching Assistant**  
Business Analytics (MBA Core) Fall 2023  
Operations Management (EMBA Core) Spring 2023  
Business Analytics (EMBA core) Spring 2022  
Foundations of Optimization (PhD core) Fall 2021

#### PROFESSIONAL SERVICE

Co-organizer for the NYC Operations Day PhD Colloquium, 2024  
Brown Bag (DRO Internal Seminar) series co-organizer, 2022-2024  
DRO PhD student representative, 2022-2024  
Reviewer for *Mathematics of Operations Research*, *Operations Research*, *Management Science*

#### PRESENTATIONS

**What Is Your AI Agent Buying? Evaluation, Implications and Emerging Questions for Agentic E-Commerce**

Workshop on Information Systems and Economics (WISE)	December 2025
MIT Conference on Digital Experimentation (CODE)	November 2025
Rotman Young Scholar Seminar	November 2025
Yale Computer Science and Economics Day	September 2025
Workshop on AI and the Future of Collaborative Innovation, New York	September 2025

**Impact of Rankings and Personalized Recommendations in Marketplaces**

INFORMS Annual Conference, Atlanta, GA	October 2025
RMP Annual Conference, New York, NY	July 2025
EC'25: ACM Conference on Economics and Computation (EC), Stanford, CA	July 2025

**Dynamic Resource Allocation: Theory and Practice**

From Matching to Markets Workshop, Corsica, France	May 2025
University of Minnesota, ISE	January 2025
Mendoza School of Business, University of Notre Dame	January 2025
Yale School of Management	January 2025
Stanford Graduate School of Business	January 2025
Cornell ORIE, Ithaca	December 2024
Cornell Tech ORIE, New York	December 2024
Imperial College Business School	December 2024
Rotman School of Management, University of Toronto	December 2024
Indian School of Business	November 2024
NUS Business School	November 2024
NYU Stern School of Business	November 2024
Wharton School of the University of Pennsylvania	November 2024

**The Fault in Our Recommendations: On the Perils of Optimizing the Measurable**

Yale FDS Workshop on Social Algorithms (Poster)	October 2025
Netflix ML Seminar, Online	November 2024
RecSys'24: ACM Conference on Recommender Systems, Bari, Italy	October 2024

**Dynamic Resource Allocation: Algorithmic Design Principles and Spectrum of Achievable Performances**

WORDS, Duke Fuqua School of Business, Durham, NC	November 2024
Operations Rookiepalooza, Kellogg School of Management, Chicago, IL	October 2024
INFORMS Annual Conference, Seattle, WA	October 2024
Cornell Young Research Workshop, Ithaca, NY	October 2024
Purdue Operations Conference, West Lafayette, IN	August 2024
IEOR Seminar, IIT Bombay, Mumbai, India	August 2024
ISMP Conference, Montreal, Canada	July 2024
RMP Annual Conference, Los Angeles, CA	July 2024
MS&E Rising Stars Workshop, Stanford, CA	April 2024
INFORMS Annual Meeting, Phoenix, AZ	October 2023
Fulfillment Optimization Research Series, Amazon	August 2023
TIFR, Mumbai, India	May 2023

**Feature-Based Dynamic Matching**

INFORMS Annual Conference, Atlanta, GA	October 2025
INFORMS Annual Conference, Seattle, WA	October 2024
MSOM Annual Conference, Minneapolis, MN	July 2024
Marketplace Innovation Workshop, Online	May 2024
RMP Annual Conference, London, England	June 2023

**A PROOF: Approximately PaReto Optimal Order Fulfillment**

Deming Doctoral Fellowship Seminar, Columbia Business School	May 2024
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**The multi-secretary problem with many types**

INFORMS Annual Meeting, Indianapolis, IN	October 2022
EC'22: ACM Conference on Economics and Computation, Boulder, CO	July 2022
MSOM Annual Conference, Munich	June 2022
RMP Annual Conference, Online	June 2022

**SKILLS****Programming:** Python, C/C++, MATLAB, HTML/CSS**Tools:** Git, L<sup>A</sup>T<sub>E</sub>X