

EMPLOYMENT	Yale University , New Haven, CT Postdoctoral Researcher at Center for Algorithms, Data and Market Design	07/2025 – 06/2026
EDUCATION	Columbia University, Graduate School of Business , New York, NY Ph.D. candidate in Decision, Risk and Operations division. Advisors: Prof. Omar Besbes and Prof. Yash Kanoria	09/2020 – 06/2025
	University of Michigan , Ann Arbor, MI Master of Science in Electrical and Computer Engineering. Advisor: Prof. Vijay Subramanian	07/2018 – 05/2020
	Indian Institute of Technology Madras , Chennai, India Bachelor of Technology in Electrical Engineering, minor in Robotics. Advisor: Prof. Rahul Vaze, Tata Institute of Fundamental Research	08/2014 – 05/2018
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	Dynamic Resource Allocation: Algorithmic Design Principles and Spectrum of Achievable Performances with Omar Besbes and Yash Kanoria. <i>Operations Research</i> • An earlier version appeared with the title “ The Multi-secretary problem with many types ” 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	Feature-Based Dynamic Matching with Yilun Chen, Yash Kanoria and Wenxin Zhang. <i>Major Revision in Operations Research</i> • Appeared as an extended abstract in <i>EC’23: ACM Conference on Economics and Computation</i> . ★ First Place, 2024 Jeff McGill RMP Best Student Paper Prize The Fault in Our Recommendations: On the Perils of Optimizing the Measurable 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> Impact of Rankings and Personalized Recommendations in Marketplaces 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>	
CONFERENCE PUBLICATIONS	From Qualification Exams to Practice: Testing LLMs on Solving Stochastic Modeling Problems with Tianyi Peng, Yuhang Wu and Assaf Zeevi. <i>WSC’25: Proceedings of the 2025 Winter Simulation Conference</i> MOTIF: Multi-Objective Tradeoff in F2P with Jikai Zou, Andrea Qualizza, Neo Huang, Shereif Reda and Yash Kanoria. <i>CSS’25: 2025 Amazon Consumer Science Summit</i> Breaking the Unit Throughput Barrier in Distributed System 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. <i>COMPASS’19: Proceedings of the 2nd ACM SIGCAS Conference on Computing and Sustainable Societies</i> ★ 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	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 <i>Low-cost, Long-term Aerial Imagery</i> US20180213187 A1 <i>Aerial imaging of a region using above ground aerial camera platform</i>	
INDUSTRY INTERNSHIPS	Amazon , Bellevue, Washington Designed algorithms for multi-objective optimization for order fulfillment problems.	June 2023 - September 2023
	Nokia Bell Labs , Paris, France Developed decoding schemes for distributed wireless systems with applications in 5G.	May 2018 - August 2018
	Microsoft Research , Bangalore, India Built low cost solutions to enable precision agriculture for small farm holders. ★ Industry Category Winner at Microsoft Global Hackathon	June 2016 - August 2016
TEACHING EXPERIENCE	Columbia University, Teaching Assistant Business Analytics (MBA Core) Operations Management (EMBA Core) Business Analytics (EMBA core) Foundations of Optimization (PhD core)	Fall 2023 Spring 2023 Spring 2022 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 <i>Mathematics of Operations Research</i> , <i>Operations Research</i> , <i>Management Science</i>	
SELECTED TALKS	Impact of Rankings and Personalized Recommendations in Marketplaces INFORMS Annual Conference, Atlanta, GA RMP Annual Conference, New York, NY Economics and Computation, Stanford, CA	
	Dynamic Resource Allocation: Theory and Practice From Matching to Markets Workshop, Corsica, France University of Minnesota, ISE Mendoza School of Business, University of Notre Dame Yale School of Management Stanford Graduate School of Business Cornell ORIE, Ithaca Cornell Tech ORIE, New York Imperial College Business School Rotman School of Management, University of Toronto Indian School of Business NUS Business School NYU Stern School of Business Wharton School of the University of Pennsylvania	
		October 2025 July 2025 July 2025 May 2025 January 2025 January 2025 January 2025 January 2025 December 2024 December 2024 December 2024 December 2024 November 2024 November 2024 November 2024 November 2024

The Fault in Our Recommendations: On the Perils of Optimizing the Measurable	
Netflix, 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, Seattle, WA	October 2024
MSOM Annual Conference, Minneapolis, MN	July 2024
Marketplace Innovation Workshop, Online	May 2024
RMP Annual Conference, London, England	June 2023
The multi-secretary problem with many types	
INFORMS Annual Meeting, Indianapolis, IN	October 2022
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 ^A T _E X