

EDUCATION	<p><b>Columbia University, Graduate School of Business</b>, New York, NY 2020-present Ph.D. candidate in Decision, Risk and Operations division. Advisors: Prof. Omar Besbes and Prof. Yash Kanoria</p> <p><b>University of Michigan</b>, Ann Arbor, MI 2018-2020 Master of Science in Electrical and Computer Engineering. Advisor: Prof. Vijay Subramanian</p> <p><b>Indian Institute of Technology Madras</b>, Chennai, India 2014-2018 Bachelor of Technology in Electrical Engineering, minor in Robotics. Advisor: Prof. Rahul Vaze, Tata Institute of Fundamental Research</p>
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	<p><b>Dynamic Resource Allocation: Algorithmic Design Principles and Spectrum of Achievable Performances</b> with Omar Besbes and Yash Kanoria. <i>Forthcoming in Operations Research</i></p> <p>☛ An earlier version appeared with the title “<b>The Multi-secretary problem with many types</b>” as an extended abstract in <i>EC’22: Proceedings of the 2022 ACM Conference on Economics and Computation</i>.</p> <p>★ Finalist, 2023 INFORMS George Nicholson Student Paper Competition</p> <p>★ Finalist, 2023 Jeff McGill RMP Best Student Paper Prize</p>
WORKING PAPERS	<p><b>Impact of Rankings and Personalized Recommendations in Marketplaces</b> with Omar Besbes and Yash Kanoria. <i>Journal Version Under Preparation</i></p> <p><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> <i>RecSys’24: 18th ACM Conference on Recommender Systems Proceedings</i></p> <p><b>Feature Based Dynamic Matching</b> with Yilun Chen, Yash Kanoria and Wenxin Zhang. <i>Major Revision in Operations Research</i> <i>EC’23: Proceedings of the 2023 ACM Conference on Economics and Computation</i>.</p>
CONFERENCE PUBLICATIONS	<p><b>Breaking the Unit Throughput Barrier in Distributed System</b> with Parikshit Hegde, Rahul Vaze, Amira Alloum, Cedric Adjih. <i>NCC’23: Twenty-Ninth National Conference on Communications</i></p> <p><b>Low-cost aerial imaging for small holder farmers</b> 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</p> <p><b>Speed scaling under QoS constraints with finite buffer</b> with Parikshit Hegde and Rahul Vaze. <i>WiOpt’18: 16th International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks</i>.</p>
PATENTS	<p>US20180213186 A1 <i>Low-cost, Long-term Aerial Imagery</i></p> <p>US20180213187 A1 <i>Aerial imaging of a region using above ground aerial camera platform</i></p>
INDUSTRY INTERNSHIPS	<p><b>Amazon</b>, Bellevue, Washington June 2023 - September 2023 Designed algorithms and decision support tools for multi-objective optimization for order fulfillment problems.</p>

	<b>Nokia Bell Labs</b> , Paris, France	May 2018 - August 2018
	Developed decoding schemes for distributed wireless systems with applications in 5G.	
	<b>Microsoft Research</b> , Bangalore, India	June 2016 - August 2016
	Built low cost solutions to enable precision agriculture for small farm holders.	
	★ Industry Category Winner at Microsoft OneWeek Hackathon	
TEACHING EXPERIENCE	<b>Columbia University, Teaching Assistant</b>	
	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 <i>Mathematics of Operations Research</i> , <i>Operations Research</i>	
AWARDS	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 OneWeek 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	
SKILLS	<b>Programming:</b> Python, C/C++, MATLAB, HTML/CSS	
	<b>Tools:</b> Git, L <sup>A</sup> T <sub>E</sub> X	
SELECTED TALKS	<b>The Fault in Our Recommendations: On the Perils of Optimizing the Measurable</b>	
	RecSys'24: ACM Conference on Recommender Systems, Bari, Italy	October 2024
	<b>Dynamic Resource Allocation: Algorithmic Design Principles and Spectrum of Achievable Performances</b>	
	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
	<b>Feature-Based Dynamic Matching</b>	
	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
	<b>A PROOF: Approximately PaReto Optimal Order Fulfillment</b>	
	Deming Doctoral Fellowship Seminar, Columbia Business School	May 2024
	<b>The multi-secretary problem with many types</b>	
	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