

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> <ul style="list-style-type: none"> <li>☛ 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>.</li> <li>★ Finalist, 2024 Michael H. Rothkopf Junior Researcher Paper Prize</li> <li>★ Finalist, 2023 INFORMS George Nicholson Student Paper Competition</li> <li>★ Finalist, 2023 Jeff McGill RMP Best Student Paper Prize</li> </ul>
WORKING PAPERS	<p><b>Feature-Based Dynamic Matching</b> with Yilun Chen, Yash Kanoria and Wenxin Zhang. <i>Major Revision in Operations Research</i></p> <ul style="list-style-type: none"> <li>☛ Appeared as an extended abstract in <i>EC’23: ACM Conference on Economics and Computation</i>.</li> </ul> <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></p> <ul style="list-style-type: none"> <li>☛ An earlier version appeared in <i>RecSys’24: ACM Conference on Recommender Systems</i></li> </ul> <p><b>Impact of Rankings and Personalized Recommendations in Marketplaces</b> with Omar Besbes and Yash Kanoria. <i>Journal Version Under Preparation</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: 29th 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></p> <ul style="list-style-type: none"> <li>★ Best Paper Award at COMPASS’19</li> </ul> <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>
AWARDS	<p>Finalist, Michael H. Rothkopf Junior Researcher Paper Prize, 2024 (winner to be announced)</p> <p>Rising Star, Stanford Management Science and Engineering, 2024</p> <p>Finalist, INFORMS George Nicholson student paper competition, 2023</p> <p>Finalist, Jeff McGill RMP Best Student Paper Prize, 2023</p> <p>Deming Doctoral Fellowship, Columbia Business School, 2023-2024</p> <p>Narula Doctoral Fellowship, Columbia Business School, 2023</p> <p>Best Paper Award, COMPASS’19, 2019</p> <p>Industry Category Winner at Microsoft Global Hackathon, 2016</p> <p>Recipient of Kishore Vaigyanik Protsahan Yojana (KVPY) Fellowship by Government of India, 2014</p> <p>Recipient of National Talent Search Examination (NTSE) scholarship by Government of India, 2011</p>

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	<b>Amazon</b> , Bellevue, Washington Designed algorithms for multi-objective optimization for order fulfillment problems.	June 2023 - September 2023
	<b>Nokia Bell Labs</b> , Paris, France Developed decoding schemes for distributed wireless systems with applications in 5G.	May 2018 - August 2018
	<b>Microsoft Research</b> , 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	<b>Columbia University, Teaching Assistant</b> 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>	
SELECTED TALKS	<b>The Fault in Our Recommendations: On the Perils of Optimizing the Measurable</b> Netflix, Online RecSys'24: ACM Conference on Recommender Systems, Bari, Italy	
	<b>Dynamic Resource Allocation: Algorithmic Design Principles and Spectrum of Achievable Performances</b> WORDS, Duke Fuqua School of Business, Durham, NC Operations Rookiepalooza, Kellogg School of Management, Chicago, IL INFORMS Annual Conference, Seattle, WA Cornell Young Research Workshop, Ithaca, NY Purdue Operations Conference, West Lafayette, IN IEOR Seminar, IIT Bombay, Mumbai, India ISMP Conference, Montreal, Canada RMP Annual Conference, Los Angeles, CA MS&E Rising Stars Workshop, Stanford, CA INFORMS Annual Meeting, Phoenix, AZ Fulfillment Optimization Research Series, Amazon TIFR, Mumbai, India	
	<b>Feature-Based Dynamic Matching</b> INFORMS Annual Conference, Seattle, WA MSOM Annual Conference, Minneapolis, MN Marketplace Innovation Workshop, Online RMP Annual Conference, London, England	
	<b>The multi-secretary problem with many types</b> INFORMS Annual Meeting, Indianapolis, IN Economics and Computation, Boulder, CO MSOM Annual Conference, Munich RMP Annual Conference, Online	
SKILLS	<b>Programming:</b> Python, C/C++, MATLAB, HTML/CSS <b>Tools:</b> Git, L <sup>A</sup> T <sub>E</sub> X	