

# Divya Singhvi

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CONTACT INFORMATION	NYU Stern School of Business 44 West Fourth Street, 8-75, New York, NY - 10012	divya.singhvi@stern.nyu.edu divyasinghvi.github.io
ACADEMIC EMPLOYMENT	<b>New York University, Stern School of Business</b> Assistant Professor, Technology, Operations & Statistics	2021-present
	<b>IBM Research, New York</b> Postdoctoral Researcher, IBM Research AI Residency Program	2020-2021
EDUCATION	<b>Massachusetts Institute of Technology</b> PhD in Operations Research GPA: 5.00/5.00	2015-2020
	<b>Cornell University</b> S.B. (Hons.) <i>magna cum laude</i> in Operations Research & Engineering Minor in Applied Mathematics GPA: 3.94/4.00	2011-2015
HONORS AND AWARDS	(*) Award was won by a student co-author on the paper	
	1. Finalist, POMS CBOM Junior Scholar Paper Competition (2026*) <i>This competition recognizes outstanding papers in the field of Behavioral Operations Management conducted mainly by junior scholars and Ph.D. students.</i>	
	2. Finalist, INFORMS JFIG Paper Competition (2025) <i>“This award is intended to encourage research among junior faculty and to increase the visibility of research conducted by junior faculty”</i>	
	3. First Place, Michael H. Rothkopf Junior Researcher Paper Prize (2025*) <i>“The prize recognizes the best paper by a junior researcher in the area of Auctions and Market Design”</i>	
	4. People’s Choice Award, Early-Career Sustainable OM Workshop (2024) <i>“Chosen by attendees of the workshop as top paper in Sustainable Operations Management”</i>	
	5. Management Science Meritorious Service Award (2023) <i>“Awarded to a select group of reviewers for consistently writing timely, unbiased, and thoughtful referee reports”</i>	
	6. INFORMS Service Science Best Student Paper Award Finalist (2018, 2021*), Third Place (2023*) <i>“This award is intended to celebrate high-quality research generated by Ph.D. students in Service Science”</i>	
	7. First place, POMS Sustainable Operations Student Paper Competition (2023*) <i>“The prize is awarded to the most promising doctoral student project that improve our understanding of the issues at the interface between sustainability and operations”</i>	
	8. Finalist, POMS Service Operations Student Paper Competition (2023*) <i>“This prize is awarded to the best paper in Service Operations by a doctoral student”</i>	

9. Finalist, INFORMS Public Sector Operations Research Best Paper Award (2021)  
*“The award recognizes research judged to be of the best quality in all of the disciplines and application areas represented within PSOR”*
10. Winner, ICSS Best Conference Paper Competition (2021)  
*“This award is for the best paper submitted to and presented at the INFORMS Conference on Service Science”*
11. Finalist, Doing Good with Good OR Competition (2021\*)  
*“Held by INFORMS to honor outstanding projects in the field of operations research and the management sciences that have a significant societal impact”*
12. Honorable Mention, M&SOM Practice Based Competition (2021)  
*“The objectives of this biennial competition is to motivate, help develop, reward and highlight high-quality OM research papers with significant practical relevance”*
13. MIT Operations Research Center Best Student Paper Award  
Honorable Mention (2018), First Place (2021\*)  
*“The award is held annually to honor outstanding papers in the field of Operations Research written by an MIT ORC student or students”*
14. MIT Best Analytics Capstone Award (Student Mentor) (2019)
15. Second place, INFORMS Best Service Science Paper Award Competition (2019)  
*“This award recognize excellence among its members based on academic significance, business relevance and fit to INFORMS Service Science”*
16. POMS Supply Chain Management Student Paper Award (2019)  
First Place (2018), Honorable mention (2019)  
*“The prize is awarded to honor outstanding doctoral student projects in the field of Supply Chain Management”*
17. First place, POMS Applied Research Challenge (2018)  
*“The Production and Operations Management Society (POMS) conducts this biennial competition to award POMS members (faculty and students) who conduct rigorous applied research that is innovative and relevant to practice”*
18. TATA Scholarship for Students from India (2011-2015)  
*“Awarded to approximately 5 undergraduate students from India every year so that the very best Indian students have access to Cornell”*

GRANTS NYU Stern Center for Sustainable Business Research Grant (2023)

JOURNAL PUBLICATIONS (\*) Authors listed alphabetically; (†) Includes industry collaborators;  
(††) Papers resulted from contributing COVID-19 forecasts to the US COVID-19 Forecast Hub

1. **A Data-driven Approach to Improve Artisans’ Productivity in Distributed Supply Chains\***  
(D. Singhvi, S. Singhvi, X. Zhang)  
*Operations Research* (2025)  
*Conference version: ACM Conference on Economics and Computation (EC’24)*  
– Finalist, JFIG Paper Competition (2025)  
– Summer Workshop on Innovation in Management Science (SWIMS 2024)  
– Early Career Sustainable OM Workshop (2023)  
– MSOM Sustainable Operations SIG Conference (2023)  
– Third Place, INFORMS Service Science Best Student Paper Award (Zhang, 2023)

- Finalist, POMS Service Operations Student Paper Competition (Zhang, 2023)
  - First place, POMS Sustainable Operations Student Paper Competition (Zhang, 2023)
2. **Online Learning with Sample Selection Bias\***  
(D. Singhvi, S. Singhvi)  
*Operations Research* (2025)  
(A previous version: “Increasing Charity Donations: A Bandit Learning Approach”)  
– Spotlited, INFORMS RM&P Conference (2022)
  3. **Buying Cheap: Brand Switching During Economic Distress and Its Disparate Impact on Consumers\***  
(S. Dutta, D. Singhvi, S. Singhvi)  
*Manufacturing & Service Operations Management* (2025)
  4. **Deep Policy Iteration with Integer Programming for Inventory Management\*†**  
(P. Harsha<sup>†</sup>, A. Jagmohan<sup>†</sup>, J. Kalagnanam<sup>†</sup>, B. Quanz<sup>†</sup>, D. Singhvi)  
*Manufacturing & Service Operations Management* (2025)  
– Conference version: *NeurIPS, Deep RL Workshop* (2021)
  5. **Dynamic Pricing with Unknown Non-Parametric Demand and Limited Price Changes\***  
(D. Singhvi, G. Perakis)  
*Operations Research* (2024)  
– Spotlited, INFORMS RM&P Conference (2019)
  6. **Learning Personalized Product Recommendations with Customer Disengagement\*†**  
(H. Bastani, P. Harsha<sup>†</sup>, G. Perakis, D. Singhvi)  
*Manufacturing & Service Operations Management* (2022)  
– Second place, INFORMS Best Service Science Paper Award Competition (2019)  
– Honorable Mention, POMS College of Supply Chain Management Best Student Paper Award (2019)
  7. **Ancillary Services in Targeted Advertising: from Prediction to Prescription\*†**  
(A. Borenstein<sup>†</sup>, A. Mangal<sup>†</sup>, G. Perakis, S. Poninghaus<sup>†</sup>, D. Singhvi, O. Skali-Lami, J. W. Lua<sup>†</sup>)  
*Manufacturing & Service Operations Management* (2023)  
– Honorable Mention, M&SOM Practice Based Competition (2021)
  8. **COVID-19: A Multiwave SIR Based Model for Learning Waves\***  
(G. Perakis, D. Singhvi, O. Skali-Lami, L. Thayaparan)  
*Production and Operations Management* (2023)  
– Finalist, INFORMS Service Science Best Paper (Thayaparan, 2021)  
– Preliminary version: MSOM Healthcare Ops SIG (2021)
  9. **COVID-19: Prediction, Prevalence, and the Operations of Vaccine Allocation\*†**  
(A. Bennouna, J. Joseph<sup>†</sup>, D. Nze-Ndong, G. Perakis, D. Singhvi, O. Skali-Lami, Y. Spantidakis, L. Thayaparan, A. Tsiourvas)  
*Manufacturing & Service Operations Management* (2023)  
– Winner: ICSS Best Conference Paper (2021)  
– Finalist: Doing Good with Good OR Student Paper Competetion (Skali-Lami, 2021)  
– Finalist, INFORMS Public Sector Operations Best Paper Award (2021)
  10. **The Role of Optimization in Some Recent Advances in Data-Driven Decision-Making\***  
(L. Baardman, R. Cristian, G. Perakis, D. Singhvi, O. Skali-Lami, L. Thayaparan)  
*Mathematical Programming* (2022)
  11. **Leveraging Comparables for New Product Sales Forecasting\*†**

- (L. Baardman, I. Levin<sup>†</sup>, G. Perakis, D. Singhvi)  
***Production and Operations Management*** (2018)  
 – First place, POMS Applied Research Challenge (2018)  
 – First place, POMS Supply Chain Management Best Student Paper Award (2018)  
 – Finalist, INFORMS Service Science Section Best Student Paper Award (2018)  
 – Honorable mention in MIT ORC Best Student Paper Competition (2018)

12. **Evaluation of Individual and Ensemble Probabilistic Forecasts of COVID-19 Mortality in the US<sup>††</sup>**  
 (US COVID-19 Forecast Hub Consortium)  
***Proceedings of the National Academy of Sciences*** (2022)
13. **The United States COVID-19 Forecast Hub Dataset<sup>††</sup>**  
 (US COVID-19 Forecast Hub Consortium)  
***Scientific Data*** (2022)

CONFERENCE  
PUBLICATIONS

14. **Design of Resale Platforms<sup>\*</sup>**  
 (I. Morgenstern, D. Saban, D. Singhvi, S. Singhvi)  
***ACM Conference on Economics and Computation (EC'25)***  
 Under major revision at ***Manufacturing & Service Operations Management***  
 – First Place, Michael H. Rothkopf Junior Researcher Paper Prize (Morgenstern, 2025)  
 – Preliminary version: 7th Marketplace Innovation Workshop (2022)
15. **Online Learning for Repeated Nudging<sup>\*</sup>**  
 (A. Kalvit, D. Singhvi)  
***ACM Conference on Economics and Computation (EC'25)***  
 – Preliminary version: 10th Marketplace Innovation Workshop (2025)
16. **Predicting Bike Usage for New York City's Bike Sharing System**  
 (D. Singhvi, S. Singhvi, P. Frazier, S. Henderson, E. Mahony, D. Shmoys and D. Woodard)  
***AAAI Workshop on Computational Sustainability*** (2015)

WORKING  
PAPERS

17. **Increasing Parents' Engagement on Ed-Tech Platforms through Personalized Nudges: Evidence from the Field<sup>\*†</sup>**  
 (N. Goyal<sup>†</sup>, A. A. Okuno, D. Singhvi, S. Singhvi)  
 Minor Revision in ***Operations Research***  
 – People's Choice Award, Early-Career Sustainable OM Workshop (2024)  
 – Summer Workshop on Innovation in Management Science (SWIMS 2024)  
 – Behavioral Operations Conference (BOC 2024)  
 – TTIC Summer Workshop on Data-Driven Decision Processes (2024)
18. **Task Assignments in Distributed Supply Chains When Downtime Hurts: A Data-Driven Approach<sup>\*</sup>**  
 (H. Jakher, D. Singhvi, S. Singhvi)  
 Major Revision in ***Management Science***  
 – Early-Career Sustainable OM Workshop (2026)
19. **When LLMs Hurt More than Help: Understanding Decision Failures Under AI Assistance<sup>\*</sup>**  
 (J. Shi, D. Singhvi, S. Singhvi)  
 – POMS CBOM Junior Scholar Paper Competition (2026)

20. **Can Generative AI Voice Improve Productivity? Experimental Insights from Indian Artisans\***  
(J. Ong, D. Singhvi, S. Singhvi)

BOOK  
CHAPTERS

**Analytics and Operations to Improve Welfare in Distributed Artisanal Supply Chains\***

(D. Singhvi and S. Singhvi)

*Responsible and Sustainable Operations: The New Frontier (2024)*

Springer Nature; edited by C. Tang

MEDIA  
COVERAGE

**How Can Discount Brands Stay Discounted?**

(By Tyler Burke)

*Chicago Booth Review, (September 14, 2023)*

PATENTS

Pavithra Harsha, Ashish Jagmohan, Brian Leo Quanz, and Divya Singhvi. “Combining math-programming and reinforcement learning for problems with known transition dynamics.” U.S. Patent Application 17/751,625, filed February 9, 2023.

STUDENT  
MENTORSHIP

- Jessica Shi (2024-Present)  
NYU Stern Operations PhD
- Alex Akira Okuno (2023-Present)  
NYU Stern Operations PhD
- Xinyu Zhang (2022-Present)  
NYU Stern Operations PhD
- Ilan Morgenstern (2021-Present)  
Stanford GSB PhD Student, Co-authored job market paper  
– Initial Placement: Assistant Professor at UC Berkeley Haas
- Tiantong Li (2021-22)  
NYU Undergraduate  
– Initial Placement: Data Science Masters Program, Harvard University
- Junzey Ye (2022-23)  
Princeton Undergraduate, co-advised with Ilan Lobel  
– Initial Placement: Stanford Graduate School of Business PhD Program in OIT
- Shreyaas Sureshprabhu (2023-24)  
NYU Undergraduate
- Tammy Tang (2023-2025)  
UC Berkeley Exchange Student  
– Initial Placement: Michigan - Ross School of Business, PhD Program in Operations

INVITED TALKS

- CMU, Tepper School of Business (05/2026 -Scheduled)
- Stanford Graduate School of Business (10/2025)
- Washington University in St. Louis, Olin School of Business (09/2025)
- University of Minnesota, Carlson School of Management (09/2025)
- Workshop on Information & Learning (WIL), London Business School (06/2025)
- Baruch College, Zicklin School of Business (05/2025)
- Georgia Tech, Scheller School of Business (03/2025)
- Yale School of Management (11/2024)
- TTIC Summer Workshop on Data-Driven Decision Processes (08/2024)
- Summer Workshop on Innovations in Management Science (07/2024)
- Simon Business School, University of Rochester (02/2024)
- MIT Sloan School of Management (01/2024)
- IBM Research, Africa (05/2023)
- Duke, Fuqua School of Business (02/2023)

- Indian Institute of Management, Udaipur (01/2023)
- HKUST, ISOM (11/2022)
- Meta, Economics Algorithm and Optimization Group (05/2022)
- INSEAD (10/2020)
- Cornell Tech, Operations Research & Information Engineering (01/2020)
- Cornell University, Operations Research & Information Engineering (01/2020)
- NYU, Stern School of Business (01/2020)
- Northwestern University, Kellogg School of Management (01/2020)
- Harvard Business School (01/2021)
- UC Berkeley, Industrial Engineering & Operations Research (01/2020)
- UC Berkeley, Haas School of Business (01/2020)
- London Business School (01/2021)
- University of Maryland, Robert H. Smith School of Business (01/2020)
- University of British Columbia, Sauder School of Business (12/2019)
- National University of Singapore, NUS Business School (11/2019)

TEACHING  
EXPERIENCE

**NYU Stern School of Business**

Operations Management- Undergraduate Core Fall 2022/23/24  
Recent Advances in Data-Driven Decision Making- Graduate Fall 2022/24

**Wharton School, University of Pennsylvania**

Guest Lecture Spring 2022

**USC Marshall School of Business**

Guest Lecture, Operations Management- Undergraduate Fall 2021

**Massachusetts Institute of Technology**

TA, Introduction to Operations Management - Sloan Fellows Summer 2019  
TA, Data Models and Decisions - Executive MBA Spring 2017, 2018  
Mentor, MBAn Capstone Project Spring 2018-2020

**Cornell University**

TA, Intro to Engineering Stochastic Processes Spring 2015  
Tutor, Calculus I Summer 2013  
Facilitator, Academic Excellence Workshop, Calculus for Engineers Fall 2012

WORK  
EXPERIENCE

Intern, *IBM Thomas J. Watson Research Centre* Summer 2017

Co-op Intern, *Ascend Analytics* Spring 2014

PROFESSIONAL  
SERVICE

- Cluster Co-Chair, Revenue Management & Pricing Cluster, INFORMS 2024
- Organizer, NYC Operations Day (2023-Present)
- Member, Stern OM Recruiting Committee (2021-22)
- Member, Stern OM Graduate Admissions Committee (2021-Present)
- Member, Faculty Advisory Council of Stern Center for Sustainable Business (CSB)
- Judge, M&SOM Best Paper Competition, INFORMS PSOR Best Paper Award, INFORMS BOM Best Working Paper Award, POMS College of Healthcare Operations Management Best Paper Award, POMS Supply Chain Student Paper Competition, RMP Jeff McGill Student Paper Award,
- Ad-hoc reviewer for Management Science, Operations Research, M&SOM, POM, IEEE Control Systems, NeurIPS, Informs Journal of Optimization.