

# Omar MOUCHTAKI

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EMPLOYMENT	<b>New York University, Stern School of Business</b> , New York, NY Assistant Professor, Technology, Operations & Statistics	2024-present
EDUCATION	<b>Columbia University, Graduate School of Business</b> , New York, NY Ph.D. candidate in Decision, Risk and Operations division Advisors: Prof. Omar Besbes and Prof. Will Ma	2019-2024
	<b>École Polytechnique</b> , Palaiseau, France Bachelor of Science and Master of Science (Diplôme d'ingénieur) in Applied Mathematics	2016-2019
	<b>Lycée Louis-Le-Grand</b> , Paris, France	2014-2016
JOURNAL PUBLICATIONS	“How Big Should Your Data Really Be? Data-Driven Newsvendor: Learning One Sample at a Time” with Omar Besbes. <i>Management Science</i> , vol. 69, no. 10, pp. 5848-5865, 2023 ★ Finalist, Best OM Paper in Management Science, 2024 ★ First Place, RMP Jeff McGill Student Paper Award, 2021 ★ Finalist, INFORMS George Nicholson Student Paper Competition, 2021 ★ Finalist, APS Best Student Paper Award, 2021	
SUBMITTED TO REFEREED JOURNALS	“Beyond IID: Data-Driven Decision-Making in Heterogeneous Environments” with Omar Besbes and Will Ma. Major Revision in <i>Management Science</i> Preliminary version appeared in <i>Advances of Neural Information Processing Systems (NeurIPS)</i> , 2022  “Joint Assortment and Inventory Planning under the Markov Chain Choice Model” with Omar El Housni, Guillermo Gallego, Vineet Goyal, Humair Salal, Ali Sadighian, Kim Sangjo, Jingchen Wu. Major Revision in <i>Management Science</i>  “From Contextual Data to Newsvendor Decisions: On the Actual Performance of Data-Driven Algorithms” with Omar Besbes and Will Ma. Major Revision in <i>Management Science</i>	
WORK IN PROGRESS	“Pricing with Binary Feedback: the Value of Information Bit by Bit” with Omar Besbes and Will Ma. Working paper (2024)  “Fast Revenue Maximization with Few Experiments” with Achraf Bahamou and Omar Besbes. Working paper (2024)	
TECHNICAL REPORTS	“Adversarial Feature Based Dynamic Pricing” joint with Vineet Goyal. Technical Report, École Polytechnique (2019) ★ École Polytechnique Research Prize in Computer Science, 2019	
AWARDS	Finalist, Best OM Paper in Management Science, 2024 Alex Woo MBA 1984 Doctoral Fellowship, 2023 Deming Center Doctoral Fellowship, 2022-2023 Doctoral fellow Paul and Sandra Montrone Doctoral Fellowship, 2022 First Place, RMP Jeff McGill Student Paper Award, 2021 Finalist, INFORMS George Nicholson Student Paper Competition, 2021 Finalist, APS Best Student Paper Award, 2021 École Polytechnique Research Prize in Computer Science, 2019 Bronze Medalist, ACM International Collegiate Programming Contest, Southwestern Europe Regional Contest, 2017 Bronze Medalist, the 24 <sup>th</sup> International Math Competition, 2017 French Government’s Major-Excellence Scholarship, 2014	

INDUSTRY EXPERIENCE	<b>Amazon.com, Applied Scientist Intern</b> , New York, NY, USA	March 2021- May 2021
	Part-time internship in the Supply Chain and Optimization Technology (SCOT) team.	
	<b>IBM Extreme Blue Program</b> , Paris, France	Summer 2018
	Designed a multi-organization network for French public administration based on a blockchain technology. <i>2<sup>nd</sup> prize, Best Pitch at the European Extreme Blue seminar</i>	
TEACHING EXPERIENCE	<b>Columbia University, Teaching Assistant</b>	
	Operations Management (EMBA core)	Spring 2022
	Business Analytics I (MBA core)	Fall 2021/Fall 2022/Spring 2024
	Business Analytics II (MBA elective)	Summer 2020/Summer 2021
	<b>Open Sciences (Science Ouverte)</b> , Drancy, France	Sept 2016 - Apr 2017
	Tutored middle school, high school and undergraduate students from underprivileged neighborhoods.	
LEADERSHIP ACTIVITIES	<b>Student Representative</b> , Columbia University	2021-2023
	Student representative for the Decision Risk and Operations division. Organized the student reading group and the open house for prospective students.	
	<b>Board of Directors</b> , École Polytechnique	2017-2019
	Elected student representative for the 2016 Class on the Board of Directors of Ecole Polytechnique. Led initiatives to improve the diversity of the student cohort and living conditions of minority groups (low-income, international and female students).	
	<b>Math&amp;Maroc</b> , Casablanca, Morocco	2016-2019
	Co-founder and vice-president of Math&Maroc: an association dedicated to the preparation of Moroccan high school students to international mathematics competitions. Organized intensive math courses in partnership with the Ministry of Education.	
PROFESSIONAL SERVICE	Co-organizer of the NYC Operations Day PhD Colloquium, 2023	
	Brown Bag (DRO Internal Seminar) series co-organizer, 2021-2023	
	Columbia DRO PhD review Committee member, 2021	
	Reviewer for <i>Management Science</i> , <i>Operations Research</i> , <i>Manufacturing &amp; Service Operations Management</i> , <i>EC</i> , <i>MSOM SIG</i> and <i>Wine</i>	
SELECTED PRESENTATIONS	<i>From Contextual Data to Newsvendor Decisions: On the Actual Performance of Data-Driven Algorithms</i>	
	INFORMS Annual Meeting, Phoenix	Oct 2023
	Cornell Young Researchers Workshop, Ithaca	Oct 2023
	RMP Annual Conference, London	July 2023
	MSOM Annual Conference, Montreal	June 2023
	POMS Annual Conference, Orlando	May 2023
	Deming Center Doctoral Fellow Seminar, New York	April 2023
	<i>Beyond IID: Data-Driven Decision-Making in Heterogeneous Environments</i>	
	APS Conference, Nancy	June 2023
	Columbia Economics Interdisciplinary Market Design Seminar, New York	March 2023
	Rotman OM&S Data Science Seminar, Online	December 2022
	NeurIPS (Poster), New Orleans	December 2022
	INFORMS Annual Meeting, Indianapolis	October 2022
	CFOL Workshop at ICML (Poster), Baltimore	July 2022
	RMP Annual Conference, Online	June 2022
	Marketplace Innovation Workshop, Online	May 2022

<i>How Big Should Your Data Really Be? Data-Driven Newsvendor: Learning One Sample at a Time</i>		
MSOM Supply Chain Management SIG Meeting, Munich		June 2022
INFORMS Annual Meeting, Anaheim		October 2021
MSOM Annual Conference, Online		June 2021
RMP Annual Conference, Online		June 2021
Amazon SCOT seminar, Online		May 2021
<i>Joint Assortment and Inventory Planning under the Markov Chain Choice Model</i>		
MSOM Annual Conference, Online		June 2021
INFORMS Annual Meeting, Online		Nov 2020

LANGUAGES

**English/French/Arabic:** Fluent      **Spanish:** Intermediate