E-mail: om2316@gsb.columbia.edu, Phone: 929-339-6752 Mail: 414W 120th Street, Apt 513, New York, NY 10027

Education	Columbia University, Graduate School of Business, New York, NY2019-presentPh.D. candidate in Decision, Risk and Operations division.Advisors: Prof. Omar Besbes and Prof. Will Ma
	Coursework includes Optimization, Stochastic Modeling, Reinforcement Learning, Reliable Statis- tical Learning, Machine Learning for Algorithm Design, Revenue Management. GPA: 10.24/10.00
	 École Polytechnique, Palaiseau, France Bachelor of Science (2018) and Master of Science (2019) in Applied Mathematics, with minor in Computer Science. Coursework includes Operations Research, Advanced Algorithms Analysis, Game Theory, Numer-
	ical Approximation and Optimization. GPA: 3.90/4.00
	Lycée Louis-Le-Grand, Paris, France 2014-2016 Preparatory program - A two-year post-secondary curriculum in advanced mathematics, physics and computer science leading to nationwide competitive entrance exams to the Grandes Ecoles for scientific studies. GPA 4.00/4.00
Research Interests	Methodologies: data-driven decision-making, sample complexity, optimization under uncertainty, machine learning in data-scarce environments, sequential decision-making <u>Applications</u> : the general automation of operational decision-making pipelines, such as those for inventory, pricing and assortment optimization
Journal Publications	 "How Big Should Your Data Really Be? Data-Driven Newsvendor: Learning One Sample at a Time" with Omar Besbes. Management Science (Articles in Advance) ★ 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 Advances of <i>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. Under Review 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 (2023)
	"Fast Revenue Maximization with Few Experiments" with Achraf Bahamou and Omar Besbes. Working paper (2023)
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	 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 Competing Finalist, APS Best Student Paper Award, 2021 École Polytechnique Research Prize in Computer Science, 2019 Bronze Medalist, ACM International Collegiate Programming gional Contest, 2017 Bronze Medalist, the 24th International Math Competition, 20 French Government's Major-Excellence Scholarship, 2014 	ition, 2021 9 g Contest, Southwestern Europe Re-	
Industry Experience	Amazon.com, Applied Scientist Intern, New York, NY, Part-time internship in the Supply Chain and Optimization		
	IBM Extreme Blue Program , Paris, France Designed a multi-organization network for French public a technology. 2 nd prize, Best Pitch at the European Extreme		
Teaching Experience	Columbia University, Teaching Assistant Operations Management (EMBA core) Business Analytics I (MBA core) Business Analytics II (MBA elective)	Spring 2022 Fall 2021/Fall 2022 Summer 2020/Summer 2021	
	Open Sciences (Science Ouverte) , Drancy, France Tutored middle school, high school and undergraduate stud hoods.	Sept 2016 - Apr 2017 dents from underprivileged neighbor-	
Leadership Activities	Student Representative , Columbia University Student representative for the Decision Risk and Operation Organized the student reading group and the open house for		
	Board of Directors , 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).		
	Math&Maroc, Casablanca, Morocco Co-founder and vice-president of Math&Maroc: an associa Moroccan high school students to international mathematic Organized intensive math courses in partnership with the M	cs competitions.	
Professional Service	Co-organizer of the NYC Operations Day PhD Colloquium, 20 Brown Bag (DRO Internal Seminar) series co-organizer, 2021- Columbia DRO PhD review Committee member, 2021 Reviewer for <i>Management Science</i> , <i>MSOM SIG</i> and <i>WINE</i>		
Skills	English/French/Arabic: Fluent Spanish: Intermediat Programming: Python, Java, C/C++, JavaScript, PHP, HT		
Selected Presentations	 From Contextual Data to Newsvendor Decisions: On the Acturithms INFORMS Annual Meeting, Phoenix Cornell Young Researchers Workshop, Ithaca RMP Annual Conference, London MSOM Annual Conference, Montreal POMS Annual Conference, Orlando Deming Center Doctoral Fellow Seminar, New York 	al Performance of Data-Driven Algo- Oct 2023 Oct 2023 July 2023 June 2023 May 2023 April 2023	

Beyond IID: Data-Driven Decision-Making in Heterogeneous Environments	
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

How Big Should Your Data Really Be? Data-Driven Newsvendor: Learning One Sample at a Time
MSOM Supply Chain Management SIG Meeting, MunichJune 2022INFORMS Annual Meeting, AnaheimOctober 2021MSOM Annual Conference, OnlineJune 2021RMP Annual Conference, OnlineJune 2021Amazon SCOT seminar, OnlineMay 2021

Joint Assortment and Inventory Planning under the Markov Chain Choice Model MSOM Annual Conference, Online INFORMS Annual Meeting, Online

REFERENCES Professor Omar Besbes

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Professor Vineet Goyal

Industrial Engineering and Operations Research Fu Foundation School of Engineering and Applied Science Columbia University New York, NY, USA vgoyal@ieor.columbia.edu

Professor Will Ma

Decision, Risk, and Operations Graduate School of Business Columbia University New York, NY, USA wm2428@gsb.columbia.edu

June 2021

Nov 2020

Professor Dan Russo

Decision, Risk, and Operations Graduate School of Business Columbia University New York, NY, USA djr2174@gsb.columbia.edu