

EDUCATION	<p>Columbia University, Graduate School of Business, New York, NY 2019-present Ph.D. candidate in Decision, Risk and Operations division. Advisor: Prof. Omar Besbes Major coursework includes <i>Optimization, Stochastic Modeling, Reinforcement Learning, Reliable Statistical Learning, Machine Learning for Algorithm Design, Revenue Management</i></p> <p>École Polytechnique, Palaiseau, France 2016-2019 Bachelor of Science (2018) and Master of Science (2019) in Applied Mathematics, with minor in Computer Science. GPA: 3.90/4.00. Major coursework includes <i>Operations Research, Advanced Algorithms Analysis, Game Theory, Numerical Approximation and Optimization</i></p> <p>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</p>
RESEARCH INTERESTS	Sequential decision-making under uncertainty, development of data-driven algorithms in heterogeneous and data-scarce environments, with applications in pricing and inventory planning
JOURNAL PUBLICATIONS	<p>“How Big Should Your Data Really Be? Data-Driven Newsvendor: Learning One Sample at a Time” with Omar Besbes. <i>Management Science</i> (forthcoming)</p> <p>★ First Place, RMP Jeff McGill Student Paper Award, 2021</p> <p>★ Finalist, INFORMS George Nicholson Student Paper Competition, 2021</p> <p>★ Finalist, APS Best Student Paper Award, 2021</p>
REFEREED CONFERENCE PROCEEDINGS	“Beyond IID: Data-Driven Decision-Making in Heterogeneous Environments” with Omar Besbes and Will Ma. In Advances of Neural Information Processing Systems (NeurIPS) (2022)
SUBMITTED TO REFEREED JOURNALS	“Joint Assortment and Inventory Planning for Heavy Tailed Demand” joint with Omar El Housni, Guillermo Gallego, Vineet Goyal, Humair Salal, Ali Sadighian, Kim Sangjo, Jingchen Wu. Under Review (2021)
WORKING PAPERS	<p>“Data-Driven Newsvendor: Operating in a Heterogeneous Environment” with Omar Besbes and Will Ma. Working paper</p> <p>“Adversarial Feature Based Dynamic Pricing” joint with Vineet Goyal. Technical Report, École Polytechnique (2019)</p> <p>★ École Polytechnique Research Prize in Computer Science, 2019</p>
AWARDS	<p>First Place, RMP Jeff McGill Student Paper Award, 2021</p> <p>Finalist, INFORMS George Nicholson Student Paper Competition, 2021</p> <p>Finalist, APS Best Student Paper Award, 2021</p> <p>École Polytechnique Research Prize in Computer Science, 2019</p> <p>Bronze Medalist, ACM International Collegiate Programming Contest, Southwestern Europe Regional Contest, Paris 2017</p> <p>Bronze Medalist, the 24th International Math Competition, Bulgaria 2017</p> <p>French Government’s Major-Excellence Scholarship, 2014</p>

INDUSTRY EXPERIENCE	Amazon.com, Applied Scientist Intern , New York, NY, USA March 2021- May 2021 Part-time internship in the Supply Chain and Optimization Technology (SCOT) team.
	IBM Extreme Blue Program , Paris, France Summer 2018 Designed a multi-organization network for French public administration based on a blockchain technology. <i>2nd prize, Best Pitch at the European Extreme Blue seminar</i>
TEACHING EXPERIENCE	Columbia University, Teaching Assistant Operations Management (EMBA core) Spring 2022 Business Analytics (MBA core) Fall 2021 Business Analytics (MBA elective) Summer 2020/Summer 2021
	Open Sciences (Science Ouverte) , Drancy, France Sept 2016 - Apr 2017 Tutored middle school, high school and undergraduate students from underprivileged neighborhoods.
OUTSIDE ACTIVITIES	Student representative , Columbia University 2021-present Student representative for the Decision Risk and Operations division.
	Board of Directors , École Polytechnique 2017-2019 Elected student representative for the 2016 Class on the Board of Directors of Ecole Polytechnique.
	Math&Maroc , 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.
SKILLS	English/French/Arabic: Fluent Spanish: Intermediate Programming: Python, Java, C/C++, JavaScript, PHP, HTML, CSS
SELECTED TALKS	<i>Data-Driven Newsvendor: Operating in a Heterogeneous Environment</i> MSOM Annual Conference, Munich June 2022 RMP Annual Conference, Online June 2022
	<i>Beyond IID: Data-Driven Decision-Making in Heterogeneous Environments</i> 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.com, Online May 2021
	<i>Joint Assortment and Inventory Planning for Heavy Tailed Demand</i> MSOM Annual Conference, Online June 2021 INFORMS Annual Meeting, Online Nov 2020