

EDUCATION	<b>Columbia University, Graduate School of Business</b> , New York, NY	2019-present
	Ph.D. candidate in Decision, Risk and Operations division. Advisor: Prof. Omar Besbes and Prof. Will Ma Major coursework includes <i>Optimization, Stochastic Modeling, Reinforcement Learning, Reliable Statistical Learning, Machine Learning for Algorithm Design, Revenue Management</i>	
	<b>École Polytechnique</b> , 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>	
	<b>Lycée Louis-Le-Grand</b> , 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	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> (Articles in Advance)</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	<p>“Beyond IID: Data-Driven Decision-Making in Heterogeneous Environments” with Omar Besbes and Will Ma. In Advances of Neural Information Processing Systems (NeurIPS 2022)</p> <p>Journal version: Major revision in <i>Management Science</i></p>	
SUBMITTED TO REFEREED JOURNALS	<p>“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></p> <p>“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></p>	
WORKING PAPERS	<p>“Pricing with Binary Feedback: the Value of Information Bit by Bit” with Omar Besbes and Will Ma. Working paper (2023)</p> <p>“Fast Revenue Maximization with Few Experiments” with Achraf Bahamou and Omar Besbes. Working paper (2023)</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	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, Paris 2017 Bronze Medalist, the 24 <sup>th</sup> International Math Competition, Bulgaria 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 (MBA core)      Fall 2021/Fall2022 Business Analytics (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.
OUTSIDE ACTIVITIES	<b>Student Representative</b> , Columbia University      2021-2023 Student representative for the Decision Risk and Operations division.  <b>Board of Directors</b> , École Polytechnique      2017-2019 Elected student representative for the 2016 Class on the Board of Directors of Ecole Polytechnique.  <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.
SKILLS	<b>English/French/Arabic:</b> Fluent <b>Spanish:</b> Intermediate <b>Programming:</b> Python, Java, C/C++, JavaScript, PHP, HTML, CSS
SELECTED PRESENTATIONS	<i>From Contextual Data to Newsvendor Decisions: On the Actual Performance of Data-Driven Algorithms</i> 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.com, 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