

Sajad Modaresi

Kenan-Flagler Business School
University of North Carolina at Chapel Hill
300 Kenan Drive, McColl 4714, Chapel Hill, NC 27599

Email: Sajad_Modaresi@kenan-flagler.unc.edu
Telephone: +1 919-962-3127
Website: <https://modaresi.web.unc.edu>

Education

Fuqua School of Business, Duke University	Durham, NC
Ph.D. in Operations Management	2018
Thesis: Data-Driven Learning Models with Applications to Retail Operations	
Advisor: Fernando Bernstein	
University of Pittsburgh	Pittsburgh, PA
M.Sc. in Industrial Engineering	2012
Sharif University of Technology	Tehran, Iran
B.Sc. in Industrial Engineering	2010

Professional Experience

Kenan-Flagler Business School, University of North Carolina at Chapel Hill	Chapel Hill, NC
Assistant Professor of Operations	2018 – Present
Fuqua School of Business, Duke University	Durham, NC
Graduate Research and Teaching Assistant	2013 – 2018
Department of Industrial Engineering, University of Pittsburgh	Pittsburgh, PA
Graduate Research and Teaching Assistant	2010 – 2013

Research Interests

Retail Operations, Online Personalization, Data-Driven Approaches to Decision-Making under Uncertainty, Machine (Reinforcement) Learning, Consumer Choice Models.

Publications

1. “A Dynamic Clustering Approach to Data-Driven Assortment Personalization”, with F. Bernstein and D. Sauré. 2019. *Management Science*, 65(5), pp. 2095–2115.
 - **First Prize, 2018 MSOM Student Paper Competition.**
2. “Learning in Combinatorial Optimization: What and How to Explore”. with D. Sauré and J. P. Vielma. 2020. *Operations Research*, 68(5), pp. 1585–1604
 - **Second Prize, 2013 INFORMS JFIG Paper Competition.**
3. “Impact of Inventory Levels and Product Variety on Consumers’ Perceptions of Brands”, with S. Golar and K. Rajavi. *Production and Operations Management*. Forthcoming.

Working Papers

4. "Diamonds in the Rough: Leveraging Click Data to Spotlight Underrated Products", with S.M. Emadi and V. Deshpande. *Under Review*.
 - **Finalist, 2021 MSOM Data-Driven Challenge.**
5. "Exploration Optimization for Dynamic Assortment Personalization under Linear Preferences", with F. Bernstein and D. Sauré. *Under Review*.
6. "Price Optimization under the Mixture of Boundary Logit Model", with M.A. Farzaneh and A. Venkataraman. *Under Review*.

Work in Progress

7. "Bundle Price Optimization with Learning", with T. Abdallah.
8. "Deep Reinforcement Learning in Service Systems", with S.M. Emadi.

Patents

- "Quick Learning Recommendation Method, Non-transitory Computer Readable Medium and System for Baskets of Goods". *US Patent* 11,151,631, 2021.

Teaching Experience

Kenan-Flagler Business School, University of North Carolina at Chapel Hill

- BUSI 410: Business Analytics, Undergraduate Program (Core), Fall 2018 – Present.
- MBA 708A: Retail Operations, MBA Elective, Fall 2019 – Present.

The Fuqua School of Business, Duke University

Decision 502: Business Mathematics Review, Daytime MBA and Master of Management Studies (MMS) Programs, Summer 2016.

Honors and Awards

- Nominated for Weatherspoon Award for Excellence in Undergraduate Teaching, Kenan-Flagler Business School, 2023.
- MBA Teaching All-Star Award, Kenan-Flagler Business School, 2021.
- Finalist at the 2021 MSOM Data-Driven Research Challenge.
- First Prize at the 2018 MSOM Student Paper Competition.
- Second Prize at the 2013 INFORMS JFIG Paper Competition.

- Invited Panelist at the POMS Doctoral Consortium, 2019.
- INFORMS Doctoral Student Colloquium Selected Attendee, 2016.
- The Fuqua School of Business Graduate Fellowship, 2013.
- University of Pittsburgh Graduate Fellowship, 2010.
- University Honor of Exceptionally Outstanding Undergraduate Student. Department of Industrial Engineering, Sharif University of Technology, 2010.
- University Honor of Studying for the Master's degree without taking the National Entrance Exam, Department of Industrial Engineering, Sharif University of Technology, 2010.
- Ranked 3rd in the Class of 2006 for the undergraduate cumulative GPA among all peers, Department of Industrial Engineering, Sharif University of Technology, 2010.
- Ranked among Top 0.1% in Iran's National University Entrance Exam (over 400,000 participants), 2006.

Academic Service and Affiliations

- Reviewer Service
 - Referee for: *Management Science, Operations Research, Manufacturing and Service Operations Management, Production and Operations Management, Service Science.*
 - Judge for MSOM Supply Chain SIG conference, 2020, 2022.
 - Judge for JFIG Paper Competition, 2019.
 - Judge for DSI Buffa Dissertation Award, 2019.
 - Judge for Research Grants Council (RGC) of Hong Kong, 2018 and 2019.
- University Service
 - Co-Organizer, Operations Area Seminar Series, 2019 – 2023.
 - Member, Faculty Need Trends Discovery Working Group, 2020.
- Conference Organizing
 - Session Chair, INFORMS Annual Meeting, 2019.
 - Session Chair, POMS Annual Conference, 2019, 2020, 2021.
- Member of: The Institute for Operations Research and the Management Sciences (INFORMS), Manufacturing and Service Operations Management (M&SOM) Society, Production and Operations Management Society (POMS).

Invited Talks

- Kellogg School of Management, Northwestern University, April 2024.
- Statistics & Operations Research Department, University of North Carolina at Chapel Hill, March 2024.
- Carey Business School, Johns Hopkins University, May 2023.
- “Diamonds in the Rough: Leveraging Click Data to Spotlight Underrated Products”, Oracle Corporation, February 2022.
- “The Job Market Experience: Candid Conversations”, Invited Panelist at the POMS Doctoral Consortium, May 2019.
- McCombs School of Business, University of Texas at Austin, 2018.
- Kelley School of Business, Indiana University, 2018.
- Imperial College Business School, 2018.
- McGill University, Desautels Faculty of Management, 2018.
- University of California, Riverside, School of Business Administration, 2018.
- Lindner College of Business, University of Cincinnati, 2018.
- University of Illinois at Chicago, College of Business Administration, 2018.
- University of Nebraska-Lincoln, College of Business, 2018.
- Kenan-Flagler Business School, University of North Carolina at Chapel Hill, 2017.
- Fox School of Business, Temple University, 2017.
- Lundquist College of Business, University of Oregon, 2017.

Invited or Refereed Conference Presentations

- INFORMS Annual Meeting, Indianapolis, IN, 2022.
- POMS Annual Conference, 2022.
- INFORMS Annual Meeting, 2021.
- MSOM Annual Conference, 2021.
- POMS Annual Conference, 2021.
- INFORMS Annual Meeting, Seattle, WA, 2019.
- POMS Annual Conference, Washington, DC, 2019.
- INFORMS Annual Meeting, Phoenix, AZ, 2018.
- MSOM Student Paper Competition, INFORMS Annual Meeting, Phoenix, AZ, 2018.

- INFORMS Annual Meeting, Houston, TX, 2017.
- MSOM Annual Conference, Chapel Hill, NC, 2017.
- POMS Annual Conference, Seattle, WA, 2017.
- INFORMS Annual Meeting, Nashville, TN, 2016.
- Amazon's Supply Chain Optimization Summit, Seattle, WA, 2016 (Poster presentation).
- INFORMS Revenue Management and Pricing Section Conference, NY, 2016.
- POMS Annual Conference, Orlando, FL, 2016.
- INFORMS Annual Meeting, Philadelphia, PA, 2015.
- INFORMS Annual Meeting, San Francisco, CA, 2014.
- INFORMS Annual Meeting, Phoenix, AZ, 2012.
- MSOM Annual Conference, New York, NY, 2012 (Poster presentation).