# Omid Rafieian

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### Research Interests

Substantive areas: digital marketing, mobile advertising, targeting, personalization, privacy, polarization, online auctions.

Methods: policy evaluation, structural models, machine learning, reinforcement learning, mechanism design, causal inference.

### **Employment**

Cornell Tech and SC Johnson College of Business, Cornell University

Demir Sabanci Faculty Fellow of Marketing and Management, February 2021 to present

Assistant Professor of Marketing, July 2020 to present

### Education

University of Washington, Seattle, WA Ph.D., Marketing, 2015 to 2020

Sharif University of Technology, Tehran, Iran B.S., Applied Mathematics, 2010 to 2015

#### Dissertation

Title: Essays on Personalization and Market Design in Mobile Advertising Chair: Hema Yoganarasimhan

Winner, 2019 MSI Alden G. Clayton Doctoral Dissertation Proposal Competition Winner, 2019 Vithala R. and Saroj V. Rao ISMS Doctoral Dissertation Award Winner, 2020 American Statistical Association Doctoral Research Award (Statistics in Marketing Section)

#### **Publications**

1. Bondi, T., Rafieian, O., Yao, Y., "Privacy and Polarization: An Inference-Based Framework," Forthcoming at *Management Science* (Extended Abstract at *EC*'24).

- 2. Rafieian, O., Kapoor, A., and Sharma, A., (2025) "Multi-Objective Personalization of Marketing Interventions," *Marketing Science*, Vol 44(2), pp 457-477.
- 3. Rafieian, O., (2023) "Optimizing User Engagement through Adaptive Ad Sequencing," *Marketing Science*, Vol 42(5), pp 910-933.
- 4. Rafieian, O., and Yoganarasimhan, H., (2022) "Variety Effects in Mobile Advertising," *Journal of Marketing Research*, Volume 59, Issue 4, pp 718-738.

Finalist, AMA-MRSIG Don Lehmann Award, 2023

5. Rafieian, O., and Yoganarasimhan, H., (2021) "Targeting and Privacy in Mobile Advertising," *Marketing Science*, Vol 40(2), pp 193-218. (*Lead article*)

Winner, Frank M. Bass Dissertation Paper Award,2021 Finalist, John D.C. Little Best Paper Award, 2021

### Chapters and Survey Papers

6. Rafieian, O., and Yoganarasimhan, H., "AI and Personalization," Artificial Intelligence in Marketing (*Review of Marketing Research*, Vol. 20), pp. 77-102.

# Working Papers

- 7. Rafieian, O., "A Matrix Completion Solution to the Problem of Ignoring the Ignorability Assumption." (Minor Revision at *Marketing Science*)
- 8. Rafieian, O., Zuo, S., "Personalization, Algorithmic Dependence, and Learning." (Major Revision at *Marketing Science*)
- 9. Mosaffa, M., Rafieian, O., and Yoganarasimhan, H., "Visual Polarization Measurement Using Counterfactual Image Generation." (Extended Abstract to appear at EC'25)
- 10. Rafieian, O., "Revenue-Optimal Dynamic Auctions for Adaptive Ad Sequencing."
- 11. Ghili, S., Rafieian, O., and Rashid, M., "Auctions Meet Bandits: An Empirical Analysis."

# Work in Progress

- 12. Khadem, S., Rafieian, O., "Value of Perfect User Tracking in Ad Personalization."
- 13. Mosaffa, Mohammad, and Rafieian, O., "Geographical and Behavioral Information: Complements or Substitutes in Personalized Policies?"

### Research Awards and Honors

Finalist, AMA-MRSIG Don Lehmann Award, 2023

Winner, Frank M. Bass Dissertation Paper Award, 2021

Finalist, John D.C. Little Best Paper Award, 2021

Winner, American Statistical Association Doctoral Research Award (Statistics in Marketing Section), 2020

Winner, MSI Alden G. Clayton Doctoral Dissertation Proposal Competition, 2019

Winner, Vithala R. and Saroj V. Rao ISMS Doctoral Dissertation Award, 2019

Fellow, AMA-Sheth Doctoral Consortium, New York, New York, 2019.

2016-2018 Ph.D. Program Dean's Achievement Award

James B. Wiley Endowed Ph.D. Fellowship in Marketing, 2018-2020

F. Kemper Freeman, Jr. 2014 Distinguished Leader Fellowship, University of Washington, 2017-2019.

Foster School of Business Fellowship, University of Washington, 2015-2017

## Teaching and Service Awards

Marketing Science Service Awards, 2022

Management Science Service Awards, 2020, 2021, 2022

# **Teaching**

Data Analytics and Modeling (NCC 5010, JCT-MBA, AMBA, Cornell University)

Managerial Statistics (NCCE 5010, EMBA, Cornell University)

Doctoral Seminar in Quantitative Models (NRE 5020, Ph.D., Cornell University)

#### Service

Editorial Review Board member at Marketing Science (2021 - present)

Senior Program Committee at Economics and Computation (EC) 2025

Program Committee at *Economics and Computation (EC)* 2024, *Workshop on Platform Analytics (WoPA)* 2023, 2024, 2025

Ad-hoc reviewer for Management Science, Journal of Marketing Research, Journal of Marketing, Quantitative Marketing and Economics, Economic Journal, International Journal of Industrial Organization

## Student Supervision

Si Zuo (Committee Member, Graduation Year: 2025)

Yanqing Gui (Committee Member, Graduation Year: 2026)

Mehrzad Khosravi (Committee Member, Graduation Year: 2027)

Mohammad Mosaffa (Chair, Graduation Year: 2028)

Sepehr Khadem (Chair, Graduation Year: 2028)

Meng Yang (Committee Member, Graduation Year: 2028)

#### **Invited Talks**

Visual Polarization Measurement Using Counterfactual Image Generation Boston University, 2025

Multi-Objective Personalization of Marketing Interventions

University of Pennsylvania, 2024

Duke University, 2024

Washington University in St. Louis, 2023

A Matrix Completion Solution to the Problem of Ignoring the Ignorability Assumption

TikTok Marketing Science, 2023

Temple University, 2023

Adaptive Ad Sequencing (based on "Optimizing User Engagement through Adaptive Ad Sequencing" and "Revenue-Optimal Dynamic Auctions for Adaptive Ad Sequencing")

University of Wisconsin Madison, 2019

University of Colorado Boulder, 2019

University of Southern California, 2019

University of Texas Dallas at Dallas, 2019

Texas A&M University, 2019

Harvard Business School, 2019

Stanford University, 2019

Yale University, 2019

University of Toronto, 2019

Penn State University, 2019

University of Rochester, 2019

Johns Hopkins University, 2019

Rutgers University, 2019
Carnegie Mellon University, 2019
Cornell Tech, 2019
Cornell University, 2019
University of California San Diego, 2019
Dartmouth College, 2021
Temple University, 2023

#### Conference Talks

Auctions Meet Bandits: An Empirical Analysis

Marketing Science Conference (scheduled), 2025

Workshop on the Economics of Advertising and Marketing (scheduled), 2025

Visual Polarization Measurement Using Counterfactual Image Generation

Workshop on Platform Analytics, 2025

MarkTech Conference, 2024

Privacy and Polarization: An Inference-Based Framework

ESIF Economics and AI+ML Meeting, 2024

Personalization, Algorithmic Dependence, and Learning

UTD Bass FORMS, 2025

Marketing Science Conference, 2024

Theory + Practice in Marketing, 2024

A Matrix Completion Solution to the Problem of Ignoring the Ignorability Assumption

AI in Management (AIM) Conference, 2025

UTD Bass FORMS, 2023

Revenue-Optimal Dynamic Auctions for Adaptive Ad Sequencing

QME Conference, 2020

Marketing Science Conference, 2020

Optimizing User Engagement through Adaptive Ad Sequencing

Marketing Science Conference, 2020

Informs Annual Meeting, 2020

Variety Effects in Mobile Advertising

CMU-Temple Conference on Digital Marketing and Machine Learning, 2018

Marketing Science Conference, 2018

UW-UBC Conference, 2018

Targeting and Privacy in Mobile Advertising

Marketing Science Conference, 2017

UTD Bass FORMS Conference, 2019