

Mohammad Reza Aminian

Curriculum Vitae/Resume

The University of Chicago, Booth School of Business

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5807 S Woodlawn Ave, Chicago, IL 60637

Education

2021 - Present **Ph.D. in Business**, *The University of Chicago, Booth School of Business, Chicago, IL, USA*

Major: Management Sciences/Operations Management

Minor: Economics

Advisor: Prof. Rad Niazadeh

Expected Graduation Date: June 2026

2018 - 2021 **B.S. in Computer Science**, *Sharif University of Technology, Tehran, Iran.*

2016 - 2021 **B.S. in Electrical Engineering**, *Sharif University of Technology, Tehran, Iran.*

Research Interests

Social/Ethical Operations, Education Operations, EdTech, Algorithms, (Online) Learning, ML, RL, Optimization, Game Theory, Mechanism/Information Design

Research

Fundraising for Education: Optimizing Crowdfunding Platforms

with Rad Niazadeh (Chicago Booth)

Optimal Assortment Optimization of Reusable Resources

with Rad Niazadeh (Chicago Booth)

Real-Time Personalized Order Holding

Designing practical approximation algorithms for the online order holding problem to enjoy the benefits of catching cancellations and multiorder consolidations. SSRN: 4644495 with Will Ma (Columbia GSB), Linwei Xin (Chicago Booth)

Markovian Search with Socially Aware Constraints

Incorporating ex-ante constraints in different aspects and variations of the sequential search problem. SSRN: 4347447

with Vahideh Manshadi (Yale SOM), Rad Niazadeh (Chicago Booth)

• **Third Place, IBM Service Science Best Student Paper Award, INFORMS 2023**

Teaching

T.A. Operations Management, Executive MBA, Chicago Booth: 2024

T.A. Managerial Decision Modelling, MBA, Chicago Booth: 2023, 2024, 2025

T.A. Linear Programming, Ph.D., Chicago Booth: 2022, 2023

Math Olympiad Teacher and Tutor

Work

2019 - 2021 **Research Assistant at the Sharif University of Technology, Tehran, Iran.**

Graph Auto-Encoder with capability of reconstructing any weighted adjacency matrix

Supervisor: Prof. Saber Saleh Kaleybar

- 2017 **Research Assistant at *Ambient Intelligence Research Lab (AIR Lab)*, Sharif University of Technology, Tehran, Iran.**
Signal Processing on the EEG data
Supervisor: Prof. Hamid K. Aghajan

Talks

Optimal Assortment Optimization of Reusable Resources:

INFORMS 2024, Seattle, WA, USA

Real-Time Personalized Order Holding:

RMP 2024, Los Angeles, CA, USA

Chicago OPS Day 2024, Poster, Chicago, IL, USA

INFORMS 2023, Phoenix, AZ, USA

Chicago Booth Operations Day 2023, Chicago, IL, USA

MOPTA 2023, Bethlehem, PA, USA

MIW 2023, Virtual

Markovian Search with Socially Aware Constraints:

EAAMO 2024, San Luis Potosí, Mexico

Purdue Operations Conference 2024, West Lafayette, IN, USA

EC 2024, Poster, New Haven, CT, USA

MSOM 2024, Minneapolis, MN, USA

FORC 2024, Cambridge, MA, USA

Chicago OPS Day 2024, Poster, Chicago, IL, USA

Midwest Workshop on Game Theory 2024, Poster, Chicago, IL, USA

Columbia Workshop on Fairness 2023, Poster, NYC, NY, USA

INFORMS 2023, Phoenix, AZ, USA

RMP 2023, London, UK

EC 2023, Poster, Virtual

MIW 2023, Virtual

NYC OPS Day 2023, Poster, NYC, NY, USA

INFORMS 2022, Indianapolis, IN, USA

Selected Honors and Awards (since 2012)

- 2023 **Third Place, IBM Service Science Best Student Paper Award**, *INFORMS*
- 2021 - 2023 **K.D.M. Fellowship Award**, *The University of Chicago, Booth School of Business*
- 2021 - 2027 **Booth Doctoral Fellowship Award**, *The University of Chicago, Booth School of Business*
- 2019 **Top Second Prize Winner at International Mathematics Competition for university students**, *Bulgaria*
- 2016 **Honorary admission for Bachelor of Electrical Engineering**, *Sharif University of Technology, Tehran, Iran*
- 2016 **Silver medalist at 57th International Mathematical Olympiad (IMO), and the top mark of the Iranian team**, *Hong Kong*
- 2015 **Gold medalist at 33rd National Mathematical Olympiad**, *Iran*

- 2014 Silver medalist at International Mathematics Competition (KIMC), *South Korea*
- 2014 Second Runner up Group prize at International Mathematics Competition (KIMC), *South Korea*
- 2014 Second Runner up Team prize at International Mathematics Competition (KIMC), *South Korea*
- 2014 Silver medalist at 32nd National Mathematical Olympiad, *Iran*
- 2014 Gold medalist at 15th National Mathematics Competition, *Iran*
- 2014 Membership of National Elite Foundation, *Iran*
- 2013 Selected as a member of the Iranian Team at International Zhautykov Olympiad (IZHO), *Iran*
- 2013 Gold medalist at 14th National Mathematics Competition, *Iran*
- 2013 Gold medalist at 3rd Mathematical Olympiad of Iranian Teenagers, *Iran*
- 2012 Merit medalist at International Mathematics Competition (TAIMC), *Taiwan*
- 2012 Gold medalist at 13th National Mathematics Competition, *Iran*

Languages

Human Persian: Native, **English**: Advanced, **Arabic**: Intermediate, **Turkish**: Intermediate
Computer Matlab, Python, R, Java, C++, C, \LaTeX

Extracurricular Activities

Swimming, Hiking, Cycling, Table Tennis, Ecotourism, Watching Movie and Anime

Selected Courses

Graduate Approximate Dynamic Programming, Market Design, Large Scale Optimization, Learning and Game Theory, Supply Chain, Dynamic Programming, Econometrics 2 and 3, Online Optimization 1 and 2, Approximation Algorithms, Stochastic Processes, Linear Programming, Advanced Microeconomics Analysis, Microeconomics 2 and 3, Graph Representation Learning, Deep Learning, Machine Learning, Causal Inference, Distributed Systems, Data Networks, Principles of Entrepreneurship, Convex Optimization 2, Queuing Theory (Both Sharif and Booth)

Under Graduate Artificial Intelligence, Introduction to Machine Learning, Graph Theory, Linear Algebra, Design Algorithms, Convex Optimization 1, Stochastic Processes, Probability and Statistics, Data Structures, Automata and Languages Theory, Numerical Analysis 1 and 2, Math Logic, Introduction and Advanced Programming, Math Analysis, Discrete Math, Differential Equations, Principles of Economy, Combinatorics