Mohammad Reza Aminian

Curriculum Vitae/Resume

The University of Chicago, Booth School of Business
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▬▬ Research Interests

Operations, (Online) Algorithms, (Online) Learning, ML, RL, Optimization, Game Theory, Mechanism Design

▬▬ Education

2021 - Present	**Ph.D. in Business: Management Sciences / Operations Management**, *The University of Chicago, Booth School of Business, Chicago, IL, USA* Advisor: Prof. Rad Niazadeh Expected Graduation Date: July 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.*

▬▬ Selected Honors and Awards (since 2012)

2023	**Third Place, Service Science Best Student Paper Award**, *INFORMS Annual Meeting*
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 (KIMC)**, *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 (BIMC)**, *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 (TAIMC)**, *Iran*

Research

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.
Co-authors: Prof. Will Ma (Columbia GSB), Prof. 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
Co-authors: Prof. Vahideh Manshadi (Yale SOM), Prof. Rad Niazadeh (Chicago Booth)
• **Third Place, Service Science Best Student Paper Award**, *INFORMS Annual Meeting 2023*

Talks

Real-Time Personalized Order Holding:

> **INFORMS 2023**, Phoenix, AZ, USA
> **ChicagoBooth Operations Day 2023**, Chicago, IL, USA
> **MOPTA 2023**, Bethlehem, PA, USA
> **MIW 2023**, Virtual

Markovian Search with Socially Aware Constraints:

> **INFORMS 2023**, Phoenix, AZ, USA
> **RMP 2023**, Presented by Rad Niazadeh, London, UK
> **EC 2023**, Poster, Virtual
> **MIW 2023**, Virtual
> **NYC OPS Day 2023**, Poster, NYC, NY, USA
> **INFORMS 2022**, Indianapolis, IN, USA

Teaching

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

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

T.A. Linear Programmig, 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

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