

# Mohammad Reza Aminian

## Curriculum Vitae/Resume

The University of Chicago, Booth School of Business

☎ <+1 (773) 236-6780>

✉ <Mr.aminian1999@gmail.com>

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

#### **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

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, 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 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

## Talks

### Real-Time Personalized Order Holding:

**RMP 2024**, Los Angeles, CA, USA  
**Chicago OPS Day 2024**, Poster, Chicago, IL, USA  
**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:

**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,  $\text{\LaTeX}$

## 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