

# Mohammad Reza Aminian

## Curriculum Vitae/Resume

The University of Chicago, Booth School of Business

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### 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

**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, Archery, 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