

# Mohammad Shahverdikondori

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## Research Interests

- Sequential Learning
- Causality
- Statistics

## Education

### PhD candidate

ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE (EPFL) UNIVERSITY

Doctoral Program in Management of Technology under supervision of Prof. Negar Kiyavash

Lausanne - Switzerland

September 2023 - Present

### B.Sc. in Computer Science (GPA:18.04/20)

SHARIF UNIVERSITY OF TECHNOLOGY

Tehran, IRAN

September 2018 - June 2023

## Selected Publications

- Mohammad Shahverdikondori, Ehsan Mokhtarian, Negar Kiyavash "QWO: Speeding Up Permutation-Based Causal Discovery in LiGAMs." *Published at **NeurIPS 2024**. (Paper)(Code)*
- Mohammadhossein Bahari, Saeed Saadatnejad, Ahmad Rahimi, Mohammad Shahverdikondori, Amir Hossein Shahidzadeh, Seyed-Mohsen Moosavi-Dezfooli, Alexandre Alahi, "Vehicle trajectory prediction works, but not everywhere". *Published at **CVPR 2022**. (Webpage)*
- Mohammad ShahverdiKondori, Amir Mohammad Abouei, Alireza Rezaeimoghadam, Negar Kiyavash "Optimal Best Arm Identification with Post-Action Context." *Submitted to **NeurIPS 2025**. (arXiv)(Code)*
- Fateme Jamshidi\*, Mohammad Shahverdikondori\*, Negar Kiyavash "Graph-Dependent Regret Bounds in Multi-Armed Bandits with Interference." *Submitted to **NeurIPS 2025**. (arXiv)*
- Mohammad Shahverdikondori, Mohammad Reza Badri, Negar Kiyavash "Best Group Identification in Multi-Objective Bandits." *Submitted to **NeurIPS 2025**. (arXiv)*
- Niloofar Fakhfoor, Mohammad Shahverdikondori, Sajjad Hashembeiki, Mohammadjavad Norouzi, Hoda Mohammadzadeh, "Video alignment using unsupervised learning of local and global features." *Submitted to **Scientia Iranica**.(arXiv)*

## Honors & Awards

- 2018 **Silver Medal**, International Mathematical Olympiad(IMO)
- 2023 **Gold Medal**, International Mathematics Competition(IMC) for university students.
- 2022 **Silver Medal**, National Statistics Olympiad
- 2018 **Silver Medal**, Asian Pacific Mathematical Olympiad (APMO)
- 2017 **Gold Medal**, National Mathematical Olympiad
- 2017 **Bronze Medal**, Iranian Geometry Olympiad (IGO)
- 2016 **Bronze Medal**, International Mathematics Competition(IMC)

## Skills

- Machine learning :** Pytorch, Scikit-learn, OpenCV, Pandas, Numpy, R Programming
- Web and Databases :** PostgreSQL, SQL Server, HTML, CSS
- Programming Language :** Python, C++, Java, X86 Assambly

## Professional Activities

### PhD Summit Participant

CITADEL / CITADEL SECURITIES

Selected participant for the highly competitive PhD Summit event, focused on research, technology, and quantitative finance.

London, UK

March 2025

## Research Intern

ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE (EPFL) UNIVERSITY

Visual Intelligence for Transportation (VITA) lab. Under supervision of Prof. A. Alahi

Online

June 2021 - November 2021

## Summer Research Intern

CHINESE UNIVERSITY OF HONG KONG

Under supervision of Prof. Siu On Chan.

Online

July 2020 - September 2020

## Data Scientist

SHARIF UNIVERSITY OF TECHNOLOGY SCIENCE TECHNOLOGY PARK

Tehran, IRAN

September 2019 - April 2020

## Teaching Olympiad Level Mathematics

HIGH SCHOOL STUDENTS

All around Iran

2017 - 2024

- Teaching at Iran's gold medals preparation camp.
- Exceptional talent high schools Allame Helli 1 Tehran, Farzanegan 5 and 6 Tehran, Shahid Soltani Karaj, Shahid Dastgheyb Shiraz, Farzanegan Shiraz, Mirza Kochak Khan 1 and 2 Rasht, Allame Helli Malard, Sorosh Tehran and some other High Schools around Iran.

## Volunteer Activities

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- Committee member of the Iranian Students Association at EPFL
- Committee Member of Students' Scientific Organization at the Department of Mathematical Sciences at Sharif University of Technology

## Languages

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- English: Advanced
- Persian: Native
- Turkish(Azari) : Native