

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." *arXiv 2025. ([arXiv](#))([Code](#))*
- Fateme Jamshidi*, Mohammad Shahverdikondori*, Negar Kiyavash "Graph-Dependent Regret Bounds in Multi-Armed Bandits with Interference." *arXiv 2025. ([arXiv](#))*
- Mohammad Shahverdikondori, Mohammad Reza Badri, Negar Kiyavash "Best Group Identification in Multi-Objective Bandits." *arXiv 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

- 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

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