

Mohammad ShahverdiKondori

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Research Interests

- Online Learning
- Causality
- Statistics
- Computer Vision

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

Preparation Program for national Mathematical Olympiad Gold Medalists.

YOUNG SCHOLARS CLUB

Tehran, IRAN
December 2017 - July 2018

Publications

- **Mohammad ShahverdiKondori**, Ehsan Mokhtarian, Negar Kiyavash ”**QWO: Speeding Up Permutation-Based Causal Discovery in LiGAMS**. *Advances in Neural Information Processing Systems (NeurIPS) 2024*. ([Github](#))
- Mohammadhossein Bahari, Saeed Saadatnejad, Ahmad Rahimi, **Mohammad Shahverdi Kondori**, Amir Hossein Shahidzadeh, Seyed-Mohsen Moosavi-Dezfooli, Alexandre Alahi, ”**Vehicle trajectory prediction works, but not everywhere**”. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2022*. ([Webpage](#))
- Niloofar Fakhfoor, **Mohammad ShahverdiKondori**, Sajjad Hashembeiki, Mohammadjavad Norouzi, Hoda Mohammadzadeh, ”**Video alignment using unsupervised learning of local and global features**. *arXiv 2023*.([arXiv](#))
- **Mohammad ShahverdiKondori**, Siu On Chan, ”**Computing mixed Schatten norm of completely positive maps**”. *arXiv 2022*.([arXiv](#))
- **Mohammad ShahverdiKondori**, Zahra Taghizadeh, Hassan Sayyaadi ”**Large-Scale Word-level Lip Reading Dataset For Persian Language**.(*Under preparation*)

Employment

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

Honors & Awards

- 2023 **Gold Medal**, International Mathematics Competition(IMC) for university students.
- 2022 **Silver Medal**, National Statistics Olympiad
- 2018 **Silver Medal**, International Mathematical Olympiad(IMO)
- 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)

Blagoevgrad,
Bulgaria
Tehran, IRAN
Cluj-Napoca,
Romania
Tehran, IRAN
Tehran, IRAN
Tehran, IRAN
Chiangmai-
Thailand

Teaching Experience

Teaching Assistant

Sharif University of Technology

BACHELOR STUDENTS

2019 - 2023

- **Computer Vision** instructed by [Dr. kamali](#)
- **Regression Analysis** instructed by Prof. Zohuri-Zangeneh
- **Automata and Language Theory** instructed by [Dr. Ebrahimi](#)
- **Discrete Mathematics** instructed by Dr. Jamali

Teaching Olympiad Level Mathematics

All around Iran

HIGH SCHOOL STUDENTS

2017 - Present

- 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.

Skills

Machine learning : Pytorch, Scikit-learn, Pandas, Numpy, R Programming

Web and Databases : PostgreSQL, SQL Server, HTML, CSS

Programming Language : Python, C++, Java, X86 Assembly

Development Tools : Visual Studio, Pycharm, Spyder, Jupyter Notebook, R Studio, IntelliJ Idea, Git, Latex

Selected Courses

Convex Optimization

INSTRUCTED BY PROF. DANIEL KUHN

Fall 2023

Applied Probability & Stochastic Processes

INSTRUCTED BY DR. TOBIAS SUTTER

Fall 2023

Game Theory

INSTRUCTED BY DR. KASRA ALISHAHI

Spring 2022

Computer Vision

INSTRUCTED BY DR. MOSTAFA KAMALI

Spring 2021

Computational Geometry

INSTRUCTED BY DR. HAMID ZARRABIZADEH

Spring 2021

Regression Analysis

INSTRUCTED BY DR. MOHAMMAD SAFDARI

Spring 2020

Linear Algebra

INSTRUCTED BY PROF. ALIREZA RANJBAR-MOTLAGH

Spring 2019

Volunteer Activities

- Committee member of Iranian Students Association at EPFL
- Chief of Science and Technology Work Group of the Consulting Council of Mayor's Office of Malard City
- Committee Member of Students' Scientific Organization at the Department of Mathematical Sciences at Sharif University of Technology
- Game Theory Teacher at Sharif University of Technology Mathematics Summer Camp

Languages

- English: Advanced (IELTS overall bandscore: 7.5)
- Persian: Native
- Turkish (Azari) : Native