

Mohammad Shahverdi Kondori

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Research Interests

• Causality • Statistics • Data Science • 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

- 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**, 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](#))
- Ehsan Mokhtarian, **Mohammad ShahverdiKondori**, Saber Salehkaleybar, Negar Kiyavash "**Permutation-based causal discovery for linear cyclic and acyclic graphs**". (*Under preparation*).
- **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.	Blagoevgrad, Bulgaria
2022	Silver Medal , National Statistics Olympiad	Tehran, IRAN
2018	Silver Medal , International Mathematical Olympiad(IMO)	Cluj-Napoca, Romania
2018	Silver Medal , Asian Pacific Mathematical Olympiad (APMO)	Tehran, IRAN
2017	Gold Medal , National Mathematical Olympiad	Tehran, IRAN
2017	Bronze Medal , Iranian Geometry Olympiad (IGO)	Tehran, IRAN
2016	Bronze Medal , International Mathematics Competition(IMC)	Chiangmai- Thailand

Teaching Experience

Teaching Assistant

BACHELOR STUDENTS

- **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

Sharif University of Technology

2019 - 2023

Teaching Olympiad Level Mathematics

HIGH SCHOOL STUDENTS

- 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.

All around Iran

2017 - Present

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