

# 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](#))
- **Mohammad ShahverdiKondori**, Ehsan Mokhtarian, Saber Salehkaleybar, Negar Kiyavash "**QVP: A Fast Score Function for Causal Model Identification in Linear Gaussian Acyclic Models**". (*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

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|------|---|--------------------------|
| 2023 | <b>Gold Medal</b> , International Mathematics Competition(IMC) for university students. | Blagoevgrad,<br>Bulgaria |
| 2022 | <b>Silver Medal</b> , National Statistics Olympiad                                      | Tehran, IRAN             |
| 2018 | <b>Silver Medal</b> , International Mathematical Olympiad(IMO)                          | Cluj-Napoca,<br>Romania  |
| 2018 | <b>Silver Medal</b> , Asian Pacific Mathematical Olympiad (APMO)                        | Tehran, IRAN             |
| 2017 | <b>Gold Medal</b> , National Mathematical Olympiad                                      | Tehran, IRAN             |
| 2017 | <b>Bronze Medal</b> , Iranian Geometry Olympiad (IGO)                                   | Tehran, IRAN             |
| 2016 | <b>Bronze Medal</b> , International Mathematics Competition(IMC)                        | Chiangmai-<br>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

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**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

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### 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

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- 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

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