

Amir Pouya Moeini

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LinkedIn

Education

- 2014–2018 **Diploma**, Iran Atomic Energy High school .
2018–present **BSc. Computer Engineering**, Sharif University of Technology - SUT.
2020–present **Minor. Mathematics**, Sharif University of Technology - SUT.

Honors

- 2017 **Gold Medal**, in National Olympiad Astronomy and Astrophysics,
By winning this medal, I was able to select any university and any major I want to.
2017–present **Member of**, Iran's National Elites Foundation.
2018 **Official member of 12th team of IRAN**, in International Olympiad Astronomy and
Astrophysics (IOAA in Beijing - China), which earned First place better than Russia,
China, USA, Korea,
2018 **Gold Medal**, in International Astronomy and Astrophysics Olympiad (China - Beijing).

Research Interests

Academic Research Interests.

- Statistical Machine Learning
- High Dimensional Statistics
- Meta Learning
- Computer Vision
- Information Theory

Academic Teaching Experience

Linear Algebra , Prof. Abolfazl Motahari - winter 2020

Probabilities and Statistics , Prof. Naeimeh Omidvar - winter 2020 *Responsible for Statistics section*

Advanced Programming - winter 2020 *Member of assignments and projects team*

Linear Algebra , Prof. Hamid R Rabiee - fall 2020-21 *Responsible for practical assignments*

Probabilities and Statistics , Prof. Ali Sharifi - fall 2020-21 *Responsible for Statistics section*

Data Structures and Algorithms , Prof. Masoud Seddighin - fall 2020-21 *Responsible for Graph section*

Academic Research Experience

June 2020–
Now

Undergraduate Research Assistant @DML

Sharif University of Technology, Tehran

Under supervision of Professor Hamid R Rabiee - Social Media, Multimedia Systems

Related Courses

Courses Related to my Research Interests.

- Linear Algebra (18.5/20) - Prof. Abolfazl Motahari
- Probability and statistic (18.9/20)s - Prof. Ali Sharifi Zarchi
- Data Structures and Algorithms (20/20) - Prof. Mahdi Safarnejad
- Artificial Intelligence (pending) - Prof. Mahdiyeh Soleymani
- Topics in Communication (Graduate Course - Machine Learning theory, pending) - Prof. Mohammad Ali Maddah-Ali
- Topics in Statistics (Graduate Course - Bayesian Statistics and Learning, pending) - Prof. Kasra Alishahi

Courses I have audited

- Machine Learning (Graduate Course - Audited) - Prof. Mahdiyeh Soleymani
- Deep Learning (Graduate Course - Audited) - Prof. Mahdiyeh Soleymani
- Stochastic Process (Graduate Course - Audited) - Prof. Kasra Alishahi
- Reinforcement Learning (Graduate Course - Audited) - Prof. Kasra Alishahi
- Information Theory (Graduate Course - Audited) - Prof. Mahtab Mirmohseni
- Introduction to Blockchain (Graduate Course - Audited) - Prof. Mohammad Ali Maddah-Ali
- Many other courses from Stanford, MIT, ...

Computer Skills

Programming Languages	Python (Advanced), R(Advanced), JavaScript(Advanced), Java(Advanced), C, Matlab
Libraries	Python: Pytorch(Advanced), Django(Advanced), NetworkX, Tensorflow Javascript: React(Advanced), Redux, Node

Languages

Persian	Native
English	Intermediate

Academic Activities

SHARIF DATA DAYS 2020: Technical and Exec Staff

WSS (WINTER SEMINAR SERIES) 2021: Member of Content team

SHARIF DATA DAYS 2021: Member of Scientific team

Projects

- Fall 2020-21 **DML Laboratory**, *Privacy VS Personalization: A Private Meta-Learning Approach for Distributed Data Personalization and user Profiling.*
under supervision of Prof Hamid R Rabiee
- Fall 2020-21 **DML Laboratory**, *Fake news Detection and Mitigation.*
under supervision of Prof Hamid R Rabiee
Using Representation Learning and Attention models to predict information in cascades and mitigate fake news.
- Summer 2019 **Member of Iranian National Observatory Project.**
under supervision of Habib Khosroshahi
Calculating the seeing of the sky (Automatically and Manually), Thus the main telescope will have the situation of the weather and can decide is the weather appropriate for the observation or not.
- Visit my [github](#) page for more small projects.

Work Experience

- 2017–2020 **Olympiad Instructor.**
I'm teaching Astronomy and Astrophysics Olympiad to students.
Topics I have taught so far:
- Classical Mechanics, Astrophysics, Cosmology and General relativity, Spherical Astronomy, Special relativity, Data analysis
- Places I've worked so far:
- Iran Atomic Energy High school, Salam High school, Allame Tabatabaei, Farzanegan2

Hobbies

I'm an Amateur cinema critic and I write reviews on some specific websites.
I'm an amateur Observer.
I'm an amateur piano player and interested in Rachmaninoff music.
I'm a collector of Star Wars movie action figures.
I'm an amateur table tennis player.

Soft Skills

Communication
Teamwork
Adaptability and flexibility
Work Ethic
Time Management