Amir Pouya Moeini

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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..

2018   **Gold Medal**, *in International Astronomy and Astrophysics Olympiad (China - Beijing)*.

Research Interests

Academic Research Interests.
- **Statistical and Theoretical Machine Learning**
- **High Dimensional Statistics**
- **Meta Learning**
- **Federated Learning**
- **Information Theory**

Academic Teaching Experience

Machine Learning (Graduate) , Dr. Rohban - winter 2021

Machine Learning , Dr. Hosseini - spring 2021

Statistical Machine Learning (Graduate) , Prof. Rabiee - winter 2021

Regression Analysis , Prof. Zangeneh - spring 2021

Artificial Intelligence , Prof. Rohban - spring 2021

Linear Algebra , Prof. Rabiee - fall 2020-21

Linear Algebra , Prof. Motahari - winter 2020

Probabilities and Statistics , Prof. Omidvar - winter 2020

Advanced Programming - winter 2020

Data Structures and Algorithms , Prof. Seddighin - fall 2020-21

Academic Research Experience

June 2020- **Undergraduate Research Assistant @DML**   *Sharif University of Technology, Tehran*
Now

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

Projects

Fall 2020-21 **DML Laboratory**, *Privacy VS Personalization: A Fair Private Meta-Learning Approach for Distributed Data Personalization and user Profiling*.
under supervision of Prof Hamid R Rabiee, we need to design a Private Meta Learning (PML) approach for personalization (user-profiling) while maintaining the required level of accuracy. For more details: please visit here here

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. For mere details: please visit here

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.

Related Courses

Courses Related to my Research Interests.

○ **Theory of Machine Learning** (Graduate Course) - Prof. Mohammad Ali Maddah-Ali (Fall 2020)

○ **Bayesian Methods in Statistics and Machine Learning** (Graduate Course) - Prof. Kasra Alishahi (Fall 2020)

○ **High Dimensional Probabilities** (Graduate Course) - Prof. Mohammad Hossein Yassaee (Winter 2021)

○ **Artificial Intelligence** - Prof. Mahdiyeh Soleymani (Fall 2020)

○ **Stochastic Process** - Prof. Mostafa Esfahani Zadeh (Winter 2021)

○ **Linear Algebra** - Prof. Abolfazl Motahari (Fall 2019)

○ **Probability and statistic** - Prof. Ali Sharifi Zarchi (Fall 2019)

○ **Data Structures and Algorithms** - Dr. Mahdi Safarnejad (Winter 2020)

○ **Design Algorithms** - Dr. Massoud Seddighin (Winter 2021)

○ **Machine Learning** (Graduate Course - Audited) - Prof. Mahdiyeh Soleymani

○ **Deep Learning** (Graduate Course - Audited) - Prof. Mahdiyeh Soleymani

○ **Reinforcement Learning** (Graduate Course - Audited) - Prof. Kasra Alishahi

○ **Information Theory** (Graduate Course - Audited) - Prof. Mahtab Mirmohseni

○ **Introduction to Blockchain** (Graduate Course - Audited) - Prof. Maddah-Ali

○ **Convex Optimization** (Graduate Course - Audited) - Prof. Motjaba Tefagh

Small Projects

GANs project: Some implementation of GANs papers. You can see the codes here.
Classification project: Some implementation of Classification papers. codes: here.
DataDays Website: Frontend part of this event website. codes: here.
Reddit Website: Web course project. You can see the codes here.
Duelyst Game: Advanced Programming course project. You can see the codes here.

Academic Activities

Sharif Data Days 2020: Technical and Exec Staff
WSS (Winter seminar series) 2021: Member of the Content team
Sharif Data Days 2021: Member of the Scientific team

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

Work Experience

2017–2020   **Olympiad Instructor**.
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 Tabatabei, Farzanegan2**

References

Prof. Hamid Reza Rabiee.
Professor, Sharif University of Technology, Computer Engineering Department
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Dr. Massoud Seddighin.
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