

Amir Eskandari

MASTER STUDENT · RESEARCH ASSISTANT

Tehran, IRAN

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Education

Amirkabir University of Technology (AUT) - (Tehran Polytechnic)

Tehran, IRAN

M.Sc. IN ELECTRICAL ENGINEERING (COMMUNICATION SYSTEMS)

Sept. 2020 - Expected (Jan. 2023)

- **Average** : 17.97/20 via 26 credits (**Ranked 2th**)
- **Thesis**: "Reconstruction of Missing Data of Environmental Sensors with Graph Neural Networks" (?/20)
- **Supervisor**: Dr. Vahid Pourahmadi

Imam Khomeini International University (IKIU)

Qazvin, IRAN

B.Sc. IN ELECTRICAL ENGINEERING (CONTROL SYSTEMS)

July 2016 - Aug. 2020

- **Average** : 17.79/20 via 143 credits (**Ranked 2th**)
- **Thesis**: "Designing PID Controllers By Deep Reinforcement Learning" (19.25/20)
- **Supervisor**: Dr. Mehdi Rahmani

Research Interests

- Graph Neural Networks
- Multivariate Time Series
- Deep Learning
- Statistical Learning

Publication

- Ready to Submitted **"Spatial Missing Data Imputation Using Graph Neural Networks"**, A.Eskandari, S.Jamshidiha, V.Pourahmadi
- In Preparation **"Spatial-Temporal Missing Data Imputation Using A Deep Hierarchical Approach"**, A.Eskandari, V.Pourahmadi

Honors & Awards

- 2020 **Top %0.5**, Among 35,000 participants in nation-wide University Entrance Exam for Master of Science.
- 2016 **Top %5**, Among 170,000 participants in nation-wide University Entrance Exam for Bachelor of Science.
- 2020 **Scholarship**, Ministry of Science, Research, and Technology Scholarship (Tuition fee waiver) for Master of Science.
- 2016 **Scholarship**, Ministry of Science, Research, and Technology Scholarship (Tuition fee waiver) for Bachelor of Science.

Experience

University of New South Wales Sydney (UNSW)

Kensington, Australia

RESEARCH INTERNSHIP

Aug. 2022 - Present

- Working on applying Graph Neural Networks on Bioinformatics tasks.

Amirkabir University of Technology (AUT) - (Tehran Polytechnic)

Tehran, IRAN

RESEARCH ASSISTANT

Apr. 2021 - Present

- Dedicated Research on Deep Learning in particular Graph Neural Networks.
- Working on applying Graph Neural Networks on Multivariate Time Series tasks.
- Modeling Missing values challenges of IoT Sensor Networks as Spatial-Temporal problems.
- Focused Study on Graph Neural Networks both in theories and applications.

IOT IKIU

CO-FOUNDER & ELECTRONIC ENGINEER

Qazvin, IRAN

Apr. 2018 - Sep. 2019

- Worked on a Health Care device, which monitors vital signs of elderly peoples (MVP produced).
- Developed the code of the Main Processor (STM32) of the device to run Sensors and get data of them.
- Led the technical team in all aspects of the device (programming, designing PCB, ...).
- Helped and trained Junior students to enhance their Technical Skills.

Teaching Experience

Digital Systems I

TEACHER ASSISTANT (TA)

Qazvin, IRAN

Spring Semester, 2020

- **Instructor:** Dr. Seyed Ali Hosseini
- Was responsible for design Computer Assignments | Used languages: Verilog & VHDL.
- Designed Homework Assignment.

Selected Academic Courses

SP, 2021	Machine Learning , 20/20	EE Dept. AUT
F, 2021	Data Mining , 20/20	CS Dept. AUT
F, 2021	Statistical Learning Theory , 19.4/20	EE Dept. AUT
F, 2021	Digital Signal Processing , 17.6/20	EE Dept. AUT
F, 2020	Random Processes , 17.73/20	EE Dept. AUT
F, 2017	Probability & Statistics , 20/20	EE Dept. IKIU
F, 2018	Linear Algebra , 17.5/20	EE Dept. IKIU

Technical Skills

Programming	Python, C/C++, Matlab, LaTeX, MySQL, Linux Shell Script
Libraries	PyTorch, Tensorflow, Numpy, Pandas, Scikit-Learn, Pytorch Lightning, Pytorch Geometric
Tools	Version Controlling (GIT), GitHub, VIM, Jupyter Notebook, VS Code

Languages

Fluent	English , Toefel +96 in 1 month (Estimated)
Native	Persian ,
Native	Azerbaijani , Bilingual, Second Language

References

Dr. Vahid Pourahmadi, Assistant Prof. at EE Dept. of AUT. **Email:** v.pourahmadi@aut.ac.ir

Dr. Mehdi Rahmani, Assistant Prof. at EE Dept. of IKIU. **Email:** mrahmani@eng.ikiu.ac.ir

Dr. Seyed Ali Hosseini, Assistant Prof. at EE Dept. of IKIU. **Email:** sahosseini@eng.ikiu.ac.ir