

Amir Eskandari

PHD STUDENT

Kingston, Canada

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Education

Queen's University

PHD IN SCHOOL OF COMPUTING - BAM LAB

- **Average** : 4.3/4.3
- **Supervisor**: Dr. Farhana Zulkernine

Kingston, Canada

Sept. 2023 -

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

M.SC. IN ELECTRICAL ENGINEERING (COMMUNICATION SYSTEMS)

- **Average** : 17.97/20 via 26 credits (**Ranked 2th**)
- **Thesis**: "Reconstruction of Missing Data of Environmental Sensors with Graph Neural Networks" (19.25/20) (excellent)
- **Supervisor**: Dr. Vahid Pourahmadi

Tehran, IRAN

Sept. 2020 - Mar. 2023

Imam Khomeini International University (IKIU)

B.SC. IN ELECTRICAL ENGINEERING (CONTROL SYSTEMS)

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

Qazvin, IRAN

July 2016 - Aug. 2020

Research Interests

- Graph Machine Learning
- Knowledge Representation and Retrieval
- Large Language Models and AI Reasoning

Publication

- Submitted (ICASSP 2025) **"SDA-GRIN for Adaptive Spatial-Temporal Multivariate Time Series Imputation"**, A.Eskandari, A.Aanad, D.Sharma, F.Zulkernine
- Submitted (ICASSP 2025) **"Self-Supervised Keypoint Detection with Distilled Depth Keypoint Representation"**, A.Aanad, E.Rashno, A.Eskandari, F.Zulkernine
- Submitted (ACM Survey) **"Survey: Transformer-based Models in Multimodal Data Processing"**, E.Rashno, A.Eskandari, A.Aanad, F.Zulkernine
- IEEE FMLDS 2024 **"GN2DI: A Scalable Graph Neural Network Framework for Spatial Missing Data Imputation in Sensor Networks"**, A.Eskandari, S.Jamshidiha, V.Pourahmadi

Experience

Connected Minds CFREF

PHD TRAINEE

- Exploring the development of a Chatbot Assistant specifically designed for the elderly population.

Kingston, Canada

May. 2024 - Present

School of Computing, Queen's University

RESEARCH AND TEACHING ASSISTANT

- Focus on ChatBot communication and Dialog systems.
- Working on the alignment of LLMs and Knowledge Graphs for knowledge retrieval.

Kingston, Canada

Sept. 2023 - Present

iThermAI

AI ENGINEER, COMPUTER VISION ENGINEER

- Research on Vision Based Algorithm for Fire and Smoke Detection, such as YOLOv5.
- MLOps and Devops

Herent, Belgium/Remote

Jan. 2023 - Aug. 2023

University of New South Wales Sydney (UNSW), School of Biomedical Eng.

RESEARCH INTERNSHIP

- Working on applying Graph Neural Networks on Bioinformatics tasks.
- Working on developing a method for gene-disease prioritization.

Kensington, Australia / Remote

Aug. 2022 - Jan. 2023

- 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.

Teaching Experience

CISC 101 - Introduction to Programming

TEACHER ASSISTANT (TA) IN QUEEN'S

Kingston, Ontario

Fall, 2024

- **Instructor:** [Dr. Wendy Powley](#)

CISC 839 - Data Analytics

TEACHER ASSISTANT (TA) IN QUEEN'S

Kingston, Ontario

Winter, 2024

- **Instructor:** [Dr. Hazem Abbas](#)

Digital Systems I

TEACHER ASSISTANT (TA) IN IKIU

Qazvin, IRAN

Spring Semester, 2020

- **Instructor:** [Dr. Seyed Ali Hosseini](#)

Selected Academic Courses

W, 2023	Statistical Learning II , A+	Queen's
F, 2023	Deep Learning , A+	Queen's
F, 2023	Reinforcement Learning , A+	Queen's
F, 2023	Automatic Planning , A+	Queen's
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

Technical Skills

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

Program Committees

2024	Judge , CUCAI 2024 - Canadian Undergraduate Conference on AI 2024 power by Connected Minds	Kingston, Ontario
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