

Amir Eskandari Khordebolagh

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) **"SDA-GRIN for Adaptive Spatial-Temporal Multivariate Time Series Imputation"**, A.Eskandari, A.Aanad, D.Sharma, F.Zulkernine
- Submitted (ICASSP) **"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 **"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

Sep. 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

Kingston, Ontario

TEACHER ASSISTANT (TA) IN QUEEN'S

Fall, 2024

- **Instructor:** Dr. Wendy Powley

CISC 839 - Data Analytics

Kingston, Ontario

TEACHER ASSISTANT (TA) IN QUEEN'S

Winter, 2024

- **Instructor:** Dr. Hazem Abbas

Digital Systems I

Qazvin, IRAN

TEACHER ASSISTANT (TA) IN IKIU

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 Lightening, 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