

Mohammad Hashemi

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Education

Ph.D. in Computer Science

DEPARTMENT OF COMPUTER SCIENCE AND INFORMATICS

- **Cumulative GPA: 3.95/4**

Emory University

Aug. 2023 - Present

B.Sc. in Computer Engineering

FACULTY OF COMPUTER SCIENCE AND ENGINEERING

- **Cumulative GPA: 3.85/4**

Shahid Beheshti University

Sep. 2018 - Feb. 2023

Research Interests

Machine Learning | Spatio-temporal Computing | Graph Data Mining | Computer Vision

Publications

Scalable Graph Condensation with Evolving Capabilities [pdf]

THE THIRTY-SECOND CONFERENCE ON KNOWLEDGE DISCOVERY AND DATA MINING

- S Gong*, M Hashemi*, J Ni, C Yang, W Jin (* Equal Contribution)

KDD 2026

From Points to Places: Towards Human Mobility-Driven Spatiotemporal Foundation Models via Understanding Places [pdf]

THE THIRTY-THIRD CONFERENCE ON ADVANCES IN GEOGRAPHIC INFORMATION SYSTEMS

- M Hashemi, A Zufle

SIGSPATIAL 2025

PlaceFM: A Training-free Geospatial Foundation Model of Places using Large-Scale Point of Interest Data [pdf][code]

ARXIV

- M Hashemi, H Amiri, A Zufle

arXiv 2025

A Comprehensive Survey on Graph Reduction: Sparsification, Coarsening, and Condensation [pdf][slides][paper list]

INTERNATIONAL JOINT CONFERENCE ON ARTIFICIAL INTELLIGENCE

- M Hashemi, S Gong, J Ni, W Fan, B. A Prakash, W Jin

IJCAI 2024

Automated Cardiac Coverage Assessment in Cardiovascular Magnetic Resonance Imaging using a Recurrent 3D Dual-Domain Convolutional Network [pdf][code]

MEDICAL PHYSICS

- S Nabavi, M Hashemi, M Ebrahimi Moghaddam, AA Abin, AF Frangi

Medical Physics

Machine learning technique in the north zagros earthquake prediction [pdf]

APPLIED COMPUTING AND GEOSCIENCES

- S Ommi, M Hashemi

Applied Computing & Geoscience

A Type-2 Neuro-Fuzzy System with a Novel Learning Method for Parkinson's Disease Diagnosis [pdf]

APPLIED INTELLIGENCE

- A Salimi-Badr, M Hashemi, H Saffari

APIN

A Neural-Based Approach to Aid Early Parkinson's Disease Diagnosis [pdf][code]

2020 11TH INTERNATIONAL CONFERENCE ON INFORMATION AND KNOWLEDGE TECHNOLOGY (IKT)

- A Salimi-Badr, M Hashemi

IKT 2020

Honors & Awards

2025 **M.Sc. in Computer Science at Emory University**, [certification]

USA

2023 **1st Place**, Best B.Sc. thesis project

Iran

2020 **4th Place**, out of 131 undergraduate students studying Computer Engineering

Iran

2017 **Passing the first stage**, of Mathematics Olympiad for two years

Iran

Experience

RESEARCH EXPERIENCE

Graduate Research Assistant

SAPATIAL COMPUTING LAB

Emory University

Mar. 2025 - Present

- Developing novel foundation models for understanding human mobility through geolocation data.
- Under supervision of [Prof. Andreas Zufle](#).

Graduate Research Assistant

AIMS LAB

Emory University

Sep. 2024 - Apr. 2025

- Developing privacy-preserving predictive models for multi-modal temporal Electronic Health Record (EHR) data
- Rotation project under supervision of [Prof. Li Xiong](#).

Graduate Research Assistant

MELODY LAB

Emory University

Aug. 2023 - Aug. 2024

- Proposing novel scalable and explainable **Graph Condensation** methods for Graph Neural Networks.
- Rotation project under supervision of [Dr. Wei Jin](#).

B.Sc. Thesis

IMAGE PROCESSING & DISTRIBUTED SYSTEMS LAB

Shahid Beheshti University

Sep. 2022 - Feb. 2023

- Proposing a novel **Deformable Image Registration(DIR)** for 4D CT lung images. [\[code\]](#)
- Under supervision of [Prof. Mohsen Ebrahimi Moghaddam](#).

Research Assistant

IMAGE PROCESSING & DISTRIBUTED SYSTEMS LAB

Shahid Beheshti University

Feb. 2021 - Mar 2022

- Proposing and Implementing a novel interpretable framework for Automatic Assessment of Full Left Ventricular Coverage in Cardiac Cine Magnetic Resonance Imaging with 3D CNNs equipped with explainable machine learning methods.
- Under supervision of [Prof. Mohsen Ebrahimi Moghaddam](#).

Research Assistant

RoIAA (ROBOTICS & INTELLIGENT AUTONOMOUS AGENTS) LAB

Shahid Beheshti University

Oct. 2020 - Jun. 2021

- Proposing various Recurrent Neural Networks (RNNs) such as LSTMs, and GRU for sequence learning to have early detection of Parkinson's Disease.
- In another research project, an interpretable classifier using an interval type-2 fuzzy neural network (IT2FCNN) for detecting patients suffering from Parkinson's Disease was proposed.
- Under supervision of [Dr. Armin Salimi-Badr](#)

WORK EXPERIENCES

Machine Learning Mentor

RAHNEMA COLLEGE Co.

Tehran, Iran

Jan. 2022 - Mar 2022

- Assisting several interns in carrying out a project in the field of Reinforcement Learning (RL). The project aimed to propose **a recommender system based on batch Reinforcement Learning** algorithms.

Machine Learning Intern

RAHNEMA COLLEGE Co.

Tehran, Iran

May. 2021 - Jul. 2021

- Developing a web application powered by the ability to perform **Web Crawler Detection** using unsupervised algorithms for the Sanjagh Co. website which is one of the biggest e-commerce platform in Iran. [\[code\]](#)
- Under supervision of [Dr. Seyed Ali Osia](#), [Dr. Mahmood Karimian](#), and [Yasin Orouskhani](#).

Services

CONFERENCE EXTERNAL REVIEWER

- 2025 **The Conference on Advances in Geographic Information Systems**, (SIGSPATIAL)
- 2024 **International Conference on Pattern Recognition**, (ICPR)
- 2024 **AAAI Conference on Artificial Intelligence**, (AAAI)
- 2024 **The International Conference on Learning Representations**, (ICLR)

VOLUNTEERING

- 2024 **Web Chair @ WWW'24 Workshop in Data-centric Artificial Intelligence** [\[website\]](#), DCAI