

RESEARCH INTERESTS

My research interests lie in the field of Computer Vision, particularly in how it can be applied to Augmented Reality systems. I am fascinated by the potential of Augmented Reality to enhance the way we interact with the world around us, and I believe that Computer Vision can play a vital role in making AR systems more effective. In addition to my interest in Computer Vision, I am also passionate about Optimization and System Design. I believe that these fields are critical for improving the performance of Augmented Reality systems and making them more accessible to a wider audience.

EDUCATION

Worcester Polytechnic Institute

Ph.D in Computer Science

Worcester, MA, USA

2023–current

- Advisor: Tian Guo
- Cumulative **GPA: 4/4**

University of Mohaghegh Ardabili

Bachelor Of Engineering in Computer Engineering

Ardabil, Ardabil, Iran

2018–2022

- Cumulative **GPA: 3.8/4** (18.25/20)
- **Ranked 2th** cumulative GPA within the **top 5% of graduating** class

PUBLICATIONS

1. Mobile Depth Estimation: Challenges and Prospects
The 25th International Workshop on Mobile Computing Systems and Applications(HotMobile24) Jan 2024
A. Ganj, Y. Zhao, H. Su, T. Guo
2. Toward Scalable and Controllable AR Experimentation
1st ACM Workshop on Mobile Immersive Computing, Networking, and Systems(ImmerCom'23) Oct 2023
A. Ganj, Y. Zhao, F. Galbiati, T. Guo
3. LR-Net: A Block-based Convolutional Neural Network for Low-Resolution Image Classification
Iranian Journal of Science and Technology, Transactions of Electrical Engineering June 2023
A. Ganj, M. Darvish, M. EbadPour, H. Bahador

HONORS & AWARDS

- “Toward Scalable and Controllable AR Experimentation”, received **best paper runner-up award** at ImmerCom'23 2023
- Awarded Travel Grant, ACM SIGCOMM 2023 conference. 2023
- Awarded **distinguished student** in the department of electrical and computer engineering 2019–2022

SKILLS

- **Programming Languages:**

Python, C++, TypeScript, JavaScript

- **Machine learning and Deep learning:**

PyTorch, Tensorflow, Scikit-learn, Matplotlib, Pandas, Numpy, Jupyter-Notebook

- **Databases:** PostgreSQL, MySQL

- **Operating System:** Microsoft Windows, Debian GNU/Linux

- **Front-end:** Vue Js, Angular, Html, CSS

- **Back-end:** Django, Flask

LANGUAGES

- **Persian:** Native

- **Turkish-Azari:** Native

- **English:** Fluent

TEACHING EXPERIENCE

Worcester Polytechnic Institute (WPI), Computer Science Department

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|--|---------------------|
| - Teaching Assistant, CS 2303 (Systems Programming Concepts) | C-term, Spring 2023 |
| - Teaching Assistant, CS 2119 (Application Building with Object-Oriented Concepts) | D-term, Spring 2023 |
| - Teaching Assistant, CS 1101 (Introduction to Program Design) | A-term, Fall 2023 |
| - Teaching Assistant, CS 4233 (Object-Oriented Analysis and Design) | B-term, Fall 2023 |

UMA University, Electrical and Computer Engineering Department

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| - Lab Assistant, Digital System Lab | Fall 2022 |
| - Teaching Assistant, Software Engineering | Fall 2021 |
| - Teaching Assistant, Discrete Mathematics | Spring 2021 and 2022 |

TECHNICAL EXPERIENCE

Access Endless Communication(AEC)

Front-end Developer- Internship

[\[website\]](#) - Tehran

August 2020 - March 2021