

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)
Ashkan Ganj, Yiqin Zhao, Hang Su, Tian Guo
Feb 2024
2. Toward Scalable and Controllable AR Experimentation
1st ACM Workshop on Mobile Immersive Computing, Networking, and Systems(ImmerCom'23)
Ashkan Ganj, Yiqin Zhao, Federico Galbiati, Tian Guo
Oct 2023
3. LR-Net: A Block-based Convolutional Neural Network for Low-Resolution Image Classification
Iranian Journal of Science and Technology, Transactions of Electrical Engineering
Ashkan Ganj, Mahdi Darvish, Mohsen EbadPour, Hamid Bahador
June 2023

PROFESSIONAL EXPERIENCES

Worcester Polytechnic Institute

Research Assistant

Worcester, MA

May 2024 - Current

Worcester Polytechnic Institute

Teaching Assistant

Worcester, MA

January 2023 - May 2024

Access Endless Communication(AEC)

Full-Stack Web Developer- Internship

Tehran, Iran

August 2020 - March 2021

APA Cert Lab

Research Intern

Ardabil, Iran

December 2019 - August 2020

PROJECTS

Accurate Metric Depth Estimation

Research Assistant

Project : Github

Jan 2023 - current

- The goal of this project is to propose a new and robust model for depth estimation that leverages mobile camera features.
- Identified current limitations and challenges of depth estimation models in the mobile AR scenario.
- Proposed a new model architecture that addresses these limitations and challenges.
- Research paper has been accepted at HotMobile24.

Image Classification via Convolutional Neural Networks

Jan 2020 - Dec 2020

Undergraduate Research Assistant

Project : Github

- Developed a novel image classification architecture leveraging Convolutional Neural Networks (CNNs), focusing on optimizing layer configurations and activation functions for improved feature extraction.
- Achieved state-of-the-art (SOTA) performance on three benchmark datasets: MNIST Digit Recognition, Fashion-MNIST, and Oracle-MNIST, surpassing previous models in accuracy and computational efficiency.

HONORS & AWARDS

- Awarded **Travel Grant**, ACM HotMobile 2024 Workshop. 2024
- “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

TEACHING EXPERIENCE

Worcester Polytechnic Institute (WPI), Computer Science Department

2023 - 2024

Teaching Assistant(TA)

- CS 2303 (Systems Programming Concepts) C-term, Spring 2023
- CS 2119 (Application Building with Object-Oriented Concepts) D-term, Spring 2023
- CS 1101 (Introduction to Program Design) A-term, Fall 2023
- CS 4233 (Object-Oriented Analysis and Design) B-term, Fall 2023
- CS 4233 (Object-Oriented Analysis and Design) C-term, Spring 2024
- CS 2102 (Object-Oriented Design concepts) D-term, Spring 2024

UMA University, Electrical and Computer Engineering Department

2021 - 2022

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