# Ashkan Ganj

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Website


## 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** — Worcester, MA, USA
*Ph.D in Computer Science* — 2023–current

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

**University of Mohaghegh Ardabili** — Ardabil, Ardabil, Iran
*Bachelor Of Engineering in Computer Engineering* — 2018–2022

- Cumulative **GPA: 3.8/4** (18.25/20)
- **Ranked 2 th** 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. Get-A-Sense: Designing Spatial Context-Awareness for Mobile AR Environment Understanding
   *in submission*
   Y. Zhao, **A. Ganj**, T. Guo

3. 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

4. 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**

- 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**

- 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)** — [website] - Tehran
Front-end Developer- Internship — August 2020 - March 2021