

# ALI ANSARI

Tehran, Iran

☎ 935-943-9978

✉ [alians310322@gmail.com](mailto:alians310322@gmail.com)

✉ [ali.ans@sharif.edu](mailto:ali.ans@sharif.edu)

🌐 [alliance.github.io](https://alliance.github.io)

🔗 [Alliance](#)

## Education

### Sharif University of Technology

Tehran, Iran

*B.Sc. in Computer Engineering*

*Oct. 2020 – present*

- Overall GPA: 19.18/20
- GPA in Major: 19.52/20

### Hasheminejad 1 High School

Mashhad, Iran

*Diploma in Mathematics and Physics*

*Sep. 2017 – June 2020*

## Honors and Awards

National University Entrance Exam of Iran (Konkur)

August 2020

- **Ranked 3<sup>rd</sup>** among more than **150,000** students

Iran National Olympiad in Informatics

July 2019

- Received **silver medal** among over **10000** students

## Research Interesets

- Distributed Computing
- Computer Vision
- Generalization
- Deep Learning
- Interpretability
- Algorithms

## Research Experiences

### Sharif University of Technology

Aug 2022 – Sep 2023

*Research Assistant, supervised by Prof. M.H. Rohban*

*Tehran, Iran*

- Conducted a literature review on adversarial robustness and deep anomaly detection
- Utilized deep learning tools including **PyTorch** and **TensorFlow** to conduct various experiments
- Worked together with colleagues to create a technique for training models that can effectively withstand **adversarial attacks** across all categories of **anomaly detection**
- A paper submitted to **ICLR 2024** (Initial scores: 8 - 6 - 6 - 6)

### Hong Kong University of Science And Technology

July 2023 – Sep 2023

*Research Assistant, supervised by Prof. A. Goharshady*

*Hong Kong*

- Designing parameterized algorithms that leverage tree-width and related parameters to identify the hierarchical structure of data locality in a sequence of memory accesses, with the aim of minimizing cache misses
- Became familiar with various topics in theoretical computer science including cryptography, program analysis and game theory

## Publications

### RODEO: Robust Out-of-Distribution Detection Via Exposing Adaptive Outliers

*Submitted to ICLR 2024*

- Adversarial Robustness, Out-of-Distribution Detection
- [link](#) to open review (Initial scores: 8 - 6 - 6 - 6)

## Teaching Experiences

Teaching Assistant

- Probability and Statistics - Sharif University of Technology - Spring 2022
- Design & Analysis of Algorithms - Sharif University of Technology - (Fall 2022, Spring 2023, Fall 2023)
- Data Structures and Algorithms - Sharif University of Technology - (Spring 2022)
- Theory of Languages and Automata - Sharif University of Technology - (Spring 2023)

Instructor

- Algorithms and data structures to volunteers of Informatics Olympiad - 2021

## Projects

---

### YuGiOh | Java | Github

January 2021, June 2021

- Implemented YuGiOh game in Java
- Used LibGDX as the main library for the game

### Pacman | Java | Github

May 2021

- Implemented a simple version of pacman in Java using LibGDX

## Coursework

---

- Optimization for Machine Learning (Online, EPFL)
- Deep Learning for Computer Vision (Online, cs231n, Stanford University)
- Convex Optimization (Sharif University of Technology, ongoing)
- Fundamentals of 3D Computer Vision (Sharif University of Technology, ongoing)
- Machine Learning (Sharif University of Technology, 20/20)
- Design & Analysis of Algorithms (Sharif University of Technology, 20/20)
- Computer Networks (Sharif University of Technology, 20/20)
- Artificial Intelligence (Sharif University of Technology, 19.8/20)
- Linear Algebra (Sharif University of Technology, 20/20)

## Work Experiences

---

### Software Engineer at Divar

Tehran, Iran

- Worked with Django to develop performance evaluation system of employees of the organization *Aug. 2021 – May 2022*

## Technical Skills

---

**Languages:** Python, C++, C, HTML/CSS, Java, SQL, Go, R

**Developer Tools:** Git, Docker

**Frameworks:** PyTorch, TensorFlow

## Languages

---

**English** | Professional Proficiency

**Persian** | Native proficiency

## References

---

Mohammad Hossein Rohban

- Assistant Professor - Sharif University of Technology
- rohban@sharif.edu

Mahdieh Soleymani Baghshah

- Associate Professor - Sharif University of Technology
- soleymani@sharif.edu

Amir Kafshdar Goharshady

- Assistant Professor - Hong Kong University of Science and Technology
- goharshady@cse.ust.hk

Mohammad Ali Abam

- Assistant Professor - Sharif University of Technology
- abam@sharif.edu