

Alireza Dehghanpour Farashah

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alirezafarashah.github.io

EDUCATION

Sharif University of Technology
BSc of Computer Engineering
Department of Computer Science and Technology

Tehran, Iran
GPA: 19.48/20
September 2019 - Present

Allameh Helli High School
Diploma of Mathematics

GPA: 4/4
July 2016 - June 2019

TECHNICAL SKILLS

Programming Languages	Python, Java, C, C++
Frameworks & Libraries	PyTorch, TensorFlow, Keras, Scikit-learn, Numpy, Pandas, Openmim, MMDetection, MMPose
Tools	Git, PostgreSQL, MySQL, SQLite
Operating Systems	Linux, Windows
CAD & Simulation Tools	Proteus, ModelSim, Packet Tracer, Arena, Wireshark, Arduino
Soft Skills	Communication, Teamwork, Problem-solving, Flexibility

PUBLICATIONS

Mahdi Salmani, Alireza Dehghanpour Farashah, Mohammad Azizmalayeri, Mahdi Amiri, Navid Eslami, Mohammad Taghi Manzuri, and Mohammad Hossein Rohban. *Blacksmith: Fast Adversarial Training of Vision Transformers via a Mixture of Single-step and Multi-step Methods*. 2023. arXiv: 2310.18975 [cs.CV]. URL: <https://arxiv.org/abs/2310.18975>

* Equal contribution

RESEARCH EXPERIENCE

Chinese Univ. of Hong Kong (CUHK)
Summer Intern

July 2023 - Present

- Assistant Professor: Farzan Farnia
- Research Topics: Low Rank Adversarial Attacks, Nuclear Norm Attack

RIMLab
Undergraduate Research Assistant

October 2022 - Present

- Assistant Professor: Mohammad Hossein Rohban
- Research Topics: Adversarial Robustness, Adversarial Attacks, Fast Adversarial Training

Data Analytics Lab
Undergraduate Research Assistant

October 2020 - November 2021

- Assistant Professor: Seyed Abolfazl Motahari
- Research Topics: Natural Language Processing, Speech Recognition

WORK EXPERIENCE

Zista Gene Afarin
Medical Image Analyst

July 2022 - August 2022

- Supervisor: Seyed Abolfazl Motahari
- White Blood Cell Classification, Large Scale Tissue Histopathology Image Classification

Iran's National Elites Foundation
NLP Researcher

November 2021 - July 2022

- Supervisor: Seyed Abolfazl Motahari
- Trigger Word Detection, Voice Assistant, Speaker Recognition

MCI R&D Lab
Data Science Intern - NLP Researcher

October 2020 - November 2021

- Supervisor: Dr. Amir Najafi
- Training BERT Language Model for Persian Language, Speech-to-Text Model such as wav2vec.

COURSES

- **Machine Learning (Graduate): 19.5/20, Intelligent Analysis of Biomedical Images (Graduate): 20/20**, Artificial Intelligence: 20/20, Probability and Statistics: 20/20, Data & Network Security: 19.9/20, Operating Systems: 20/20, Computer Networks: 20/20 Discrete Mathematics: 19.9/20, Linear Algebra: 19.5/20, Design Algorithms: 20/20, Data Structures: 20/20,

HONORS AND AWARDS

- 33rd in the Nationwide University Entrance Exam among over 160,000

RESEARCH INTERESTS

- **Robustness, Adversarial Attacks, Interpretability, Differential Privacy, Fairness, Domain Adaptation/Generalization, Biomedical Image Analysis, Object Detection, Pose Estimation, Pose Tracking**

TEACHING ASSISTANT

- **Artificial Intelligence**, Instructor: Mohammad Hossein Rohban (Spring 2023)
- **Machine Learning**, Instructor: Seyed Abolfazl Motahari (Spring 2023)
- **Compiler Design**, Instructor: Gholamreza Ghasemsani (Spring 2023)
- **Machine Learning**, Instructor: Ali Sharifi-Zarchi, Behrooz Azarkhalili (Fall 2022)
- **Artificial Intelligence**, Instructor: Gholamreza Ghasemsani (Spring 2022)
- **Engineering Probability And Statistics**, Instructor: Mahdi Jafari (Fall 2021)
- **Engineering Probability And Statistics**, Instructor: Amir Najafi (Spring 2021)
- **Engineering Probability And Statistics**, Instructor: Seyed Abolfazl Motahari (Fall 2020)

LANGUAGES

- **English** : Fluent
 - **TOEFL iBT: 105** (Reading: 26, Listening: 30, Speaking: 24, Writing: 25)
- **Persian** : Mother tongue