

# Alireza Dehghanpour Farashah

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## EDUCATION

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### McGill University

PhD of Computer Science  
Department of Computer Science and Technology

Montréal, Quebec

GPA: 4.0/4.0

August 2024 - Present

### Sharif University of Technology

B.Sc. of Computer Engineering  
Department of Computer Science and Technology

Tehran, Iran

GPA: 19.45/20

September 2019 - December 2023

## TECHNICAL SKILLS

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### Programming Languages

Python, Java, C, C++

### Frameworks & Libraries

PyTorch, TensorFlow, Keras, Scikit-learn,  
Numpy, Pandas, Openmim, MLflow

### 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

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Zhuan Shi\*, Alireza Dehghanpour Farashah\*, Rik de Vries\*, and Golnoosh Farnadi. “Localized-attention-guided concept erasure for text-to-image diffusion models”. In: *NeurIPS 2025 Workshop on Generative and Protective AI for Content Creation*. 2025

Alireza Dehghanpour Farashah, Aditi Khandelwal, Negar Rostamzadeh, and Golnoosh Farnadi. “Unlearning Geo-Cultural Stereotypes In Multilingual LLMs”. In: *ICLR 2025 Workshop on Building Trust in Language Models and Applications*. 2025. URL: <https://openreview.net/forum?id=xo2e14bczv>

Alireza Dehghanpour Farashah\*, Mahdi Salmani\*, 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

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### Chinese Univ. of Hong Kong (CUHK)

July 2023 - September 2023

*Summer Intern*

- Assistant Professor: Farzan Farnia
- Research Topics: Low Rank Adversarial Attacks, Schatten 1-norm Attack

### RIMLab

October 2022 - January 2024

*Undergraduate Research Assistant*

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

### Data Analytics Lab

October 2020 - November 2021

*Undergraduate Research Assistant*

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

## WORK EXPERIENCE

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### 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

## COURSES

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### McGill University

- COMP 767 - Large Language Models: A (Maximum: A)

- COMP 598 - Responsible AI: A (Maximum: A)

### Université de Montréal

- IFT 6135 - Representation Learning: A+ (Maximum: A+)

- IFT 6765 - Vision-Language Models: A+ (Maximum: A+)

- IFT 6167 - Towards AGI: Continual Learning, Scaling & Foundation Models: In-progress

### Sharif University

- 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, Calculus I: 19.5/20, Calculus II: 20/20, Linear Algebra: 19.5/20, Design Algorithms: 20/20, Data Structures: 20/20,

## HONORS AND AWARDS

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- 33<sup>rd</sup> in the Nationwide University Entrance Exam among over 160,000
- Grad Excellence Award (McGill)
- Kharusi Family International Science Fellowship (McGill)
- Fonds de recherche du Québec - Nature et technologies (FRQNT)

## RESEARCH INTERESTS

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- Text-to-Image Models, Vision-Language Models, Machine Unlearning, Robustness, Responsible AI, Trustworthy ML

## TEACHING ASSISTANT

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- IFT6135 Representation Learning, TA (Fall 2025)
- 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

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