Aarash Feizi

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INTERESTS

- Multimodal Learning
- Agentic AI
- Reinforcement Learning
- Real-World Applications

EDUCATION

MCGILL UNIVERSITY
Ph.D. in Computer Science
2019 - Winter 2026 | Montréal, Canada
GPA: 4/4

SHARIF UNIVERSITY OF TECH.
B.Sc. in Software Engineering
2014 - 2019 | Tehran, Iran
GPA: 18.87/20

HONORS

Received the **Fonds de recherche du Québec – Nature et technologies (FRQNT)** doctoral scholarship 2022

Received **Graduate Research Enhancement and Travel (GREAT)** Award 2022

Ranked 3rd in **DataJam Against Exploitation Canada** competition 2021

Received **School of Computer Science Scholarship** from Mila, Quebec AI Institute 2019

Ranked 100th out of over 220,000 students in the National University Entrance Exam 2014

SKILLS

PROGRAMMING
Python • Java • Matlab

FRAMEWORKS
HuggingFace • PyTorch • Lightning • TensorFlow • Keras • NetworkX

WORK EXPERIENCE

GOOGLE RESEARCH | Student Researcher
Fall 2025 - Present | Montreal, Canada
- Working on data attribution for text-to-image generation models.
- Developing benchmarks for analyzing data attribution methods.

SERVICENOW | Visiting Researcher
Spring 2024 - Fall 2025 | Montreal, Canada
- Researched and trained large vision-language models (VLMs) for real-world applications in web agents and web understanding.
- Developing benchmarks to evaluate the reliability of VLMs.

RECURSION | Machine Learning Research Intern
Summer - Fall 2023 | Montreal, Canada
- Designed models to learn gene representations for data-centric drug discovery.
- Applied multi-modal models with self-supervised learning techniques to integrate sequential and visual modalities for gene-perturbation analysis.

PROJECTS AND PAPERS

GROUNDCUA: GROUNDING COMPUTER USE AGENTS ON HUMAN DEMONSTRATIONS
Fall 2025
- Created a large-scale GUI dataset with 3.5M+ expert annotations across 80+ real applications.
- Released the GroundNext family of models, achieving state-of-the-art GUI grounding performance.
- Built training/inference suites for utilizing GroundCUA and GroundNext models.

PAIRBENCH: ARE VISION-LANGUAGE MODELS RELIABLE AT COMPARING WHAT THEY SEE?
Spring 2025
- Developed a framework for evaluating Vision-Language Models (VLMs) as similarity kernels using four key metrics.
- Demonstrated the importance of thorough assessment before adopting VLMs for evaluation tasks.

GUIDED POSITIVE SAMPLING FOR SELF-SUPERVISED LEARNING (GPS-SSL)
Winter 2024
- Introduced a novel positive sampling strategy to reduce reliance on handcrafted augmentations in SSL models.
- Enabled SSL models to perform comparably or better than augmentation-heavy methods, improving real-world dataset adaptability.

FAIRLORA: BIAS MITIGATION IN VISION MODELS WITH FAIRNESS-DRIVEN LOW-RANK ADAPTATION
Fall 2024
- Developed FairLoRA, a fairness-specific regularizer for LoRA that minimizes performance disparities across data subgroups.
- Achieved comparable or better fairness performance than full fine-tuning while maintaining efficiency across models and datasets.