

Yara Mohammadi Bahram

Deep Learning - Generative Models - Computer Vision - Trustworthy AI

LIVIA - ILLS

Department of Systems Engineering

École de technologie supérieure, Montréal, Canada

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EDUCATION

2024-Ongoing	PhD. in Artificial Intelligence École de technologie supérieure, Montréal, Canada
2020-2023	Master of Science in Artificial Intelligence University of Tehran, Tehran, Iran GPA: 18.56/20
2015-2020	Bachelor of Science in Computer Engineering Isfahan University of Technology, Isfahan, Iran Last year GPA: 17.98/20

MANUSCRIPTS

UNDER REVIEW	Y Bahram , Melodie Desbos, Mohammadhadi Shateri, Eric Granger Uni-DAD: Unified Distillation and Adaptation of Diffusion Models for Few-step Few-shot Image Generation
AAAI 2026	Y Bahram , Mohammadhadi Shateri, Eric Granger DogFit: Domain-guided Fine-tuning for Efficient Transfer Learning of Diffusion Models
PREPRINT: <i>Manuscript</i>	<i>Y Deldjoo, M Varasteh, Y Bahram, MA Insabato, T Di Noia</i> Fairness Auditing Through the Lens of Counterfactual Explanations
PREPRINT: <i>Abstract, Manuscript</i>	YM Bahram , MA Sadeghi Overfitting is not a dead-end: A survey and outlook on post-training regularization

HONORS & AWARDS

- **Ranked 31st** among **+14,000** participants in Computer Engineering nationwide test for Masters studies
- Reviewer, AAAI 2026 (6 papers)

SKILLS

PROGRAMMING LANGUAGES	Python, R, C/C++
PYTHON FOR ML	NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn
DEEP LEARNING	Pytorch, Tensorflow
BIG DATA	SQL, NoSQL, Spark, Hadoop, Kafka
OTHER	Linux, Docker, Git, LaTeX

LANGUAGES

ENGLISH:	110 TOEFL R28 L29 S26 W27 🌟 326 GRE Q167 V159 🌟
FRENCH:	B1 level
PERSIAN & KURDISH:	Mother tongue

WORK EXPERIENCE

Research Assistant 01/2024 - Ongoing	Ecole Supérieure de Technologie LIVIA Lab <i>PhD Thesis:</i> Weakly Supervised Domain Adaptation of Deep Generative Models	Dr. Eric Granger Dr. Mohammadhadi Shateri
External Research Collaboration 05/2022 - 01/2023	Polytechnic University of Bari Remote <ul style="list-style-type: none">Exploring fairness auditing via counterfactual explanations in classification models	Dr. Yashar Deldjoo
Freelance Developer 03/2023 - 06/2023	University of Tehran Remote <ul style="list-style-type: none">Developing a system for analysis & prediction of Tehran Municipality's salary	Dr. Mostafa Tavassolipour
Research Assistant 06/2021 - 08/2023	University of Tehran Computational Modeling & Machine Learning Lab <i>Master Thesis:</i> When & where to perform regularization in training of deep models? <ul style="list-style-type: none">Analyzing the implicit loss of learning image perturbations during model trainingRobustifying deep models to perturbations via post-training layer-wise invariance & equivariance regularizationsDevising a systematic review on the concept of post-training regularization to find out whether overfitting is a dead-end in training.	Dr. Amin Sadeghi
Research Intern 08/2019 - 02/2020	Isfahan University of Technology Hardware Design & Image Processing Lab <i>Bachelor Thesis:</i> Patched-Based CNN for Instance Segmentation of Pathology Images <ul style="list-style-type: none">Investigating theoretical methods for optimization & implementation of deep learning architectures	Dr. Shadrokh Samavi

TEACHING EXPERIENCE

Graduate Mentor 09/2025 - Ongoing	Master's Project ÉTS Montréal — LIVIA Lab (LIVIA-ILLS) <i>Efficient Subject-driven Image Generation using Distillation</i> <ul style="list-style-type: none">Weekly advising, Experiment design, Code reviews, Writing guidance	
Mentor 07/2022 - 08/2022	HooshBaaz Data Analytics Bootcamp  University of Tehran <ul style="list-style-type: none">Group collaboration with 7 other mentors for educating 80 students during 14 data science workshops	
Teaching Assistant 07/2022 - 08/2022	Neuromatch Academy Deep Learning Summer School  USA (Online) <ul style="list-style-type: none">Selected as TA for full-time supervision on the learning of 16 students from different countries, & leading 2 research group projects during 3 weeks	
Teaching Assistant 09/2021 - 02/2023	Graduate University Courses University of Tehran <ul style="list-style-type: none">Machine LearningDeep Generative Models (Lead)Advanced Deep LearningData Analytics & Visualization (Lead)	Dr. Mohammad-Reza Dehaqani Dr. Mostafa Tavassolipour Dr. Amin Sadeghi Dr. Amin Sadeghi
Personal 01/2022	Publishing a free introductory ML course online   <ul style="list-style-type: none">Created over 2 hours of tutorials in Persian language with Hands-On exercises	