

AINAZ EFTEKHAR

✉ ainazeft@cs.washington.edu 🏠 ainaz99.github.io

EDUCATION

- University of Washington (UW)** Seattle, WA
Ph.D. in Computer Science and Engineering 09/2022 - present
 - GPA: 4.0/4.0, Advisor: **Prof. Ali Farhadi** and **Prof. Ranjay Krishna**.
- Ecole Polytechnique Federale de Lausanne (EPFL)** Lausanne, Switzerland
Visiting Student Researcher in VILAB 09/2021 - 08/2022
 - Advisor: **Prof. Amir Zamir**
- Sharif University of Technology** Tehran, Iran
B.S. in Computer Engineering 09/2017 - 08/2022
 - GPA: 19.22/20

PUBLICATIONS

- Selective Visual Representations Improve Convergence and Generalization for Embodied-AI**
Ainaz Eftekhara, Kuo-Hao Zeng*, Jiafei Duan, Ali Farhadi, Ani Kembhavi, Ranjay Krishna.* ICLR 2024 (Spotlight)
- Omnidata: A Scalable Pipeline for Making Multi-Task Mid-Level Vision Datasets from 3D Scans**
Ainaz Eftekhara, Alexander Sax*, Jitendra Malik, Amir Zamir.* ICCV 2021
- Puzzle-AE: Novelty Detection in Images through Solving Puzzles**
Mohammadreza Salehi, Ainaz Eftekhara, Niousha Sadjadi*, Mohammad Hossein Rohban, Hamid R. Rabiee* Arxiv, 2020

WORK EXPERIENCE

- Allen Institute for Artificial Intelligence (AI2)** Seattle, WA
Research Intern, Supervisors: Ani Kembhavi, Ranjay Krishna 06/2023 – 09/2023
 - Team: Perceptual Reasoning and Interaction Research (PRIOR)
 - Project: Selective Visual Representations for Embodied-AI (*In Submission to ICLR 2024*)
 - A parameter-efficient approach to selectively filter visual stimuli for Embodied-AI tasks (inspired by selective attention in humans)
- Ecole Polytechnique Federale de Lausanne (EPFL)** Lausanne, Switzerland
Research Intern, Supervisor: Amir Zamir 09/2020 – 08/2022
 - Visual Intelligence and Learning Lab (VILAB)
 - Project: Omnidata: A Pipeline for Making Multi-Task Mid-Level Vision Datasets (*accepted at ICCV 2021*)
 - A pipeline to generate “steerable” multi-task vision datasets by parametrically sampling and rendering 3D scans, providing a pathway to explore various data sampling effects and create better vision datasets
- Sharif University of Technology** Tehran, Iran
Research Assistant, Mohammad Hossein Rohban 09/2019 – 09/2020
 - Project: Self-Supervised Approaches for Anomaly/Novelty Detection in Images and Videos
 - Self-supervised approaches and adversarial robust training for anomaly detection in images and videos.
- Indian Institute of Technology (IIT)** Kharagpur, India
Research Intern, Supervisors: Abir Das, Pabitra Mitra 07/2019-09/2019
 - Project: Reducing effects of severe dataset imbalance using CycleGANs
 - Reducing the effect of dataset imbalance by training an end-to-end CycleGAN-Classifer architecture

HONORS AND AWARDS

EPFL Summer Research Fellowship , Ecole polytechnique federale de Lausanne	2021
Top 5% Academic Ranking , Sharif University of Technology	2020
Ranked 92th in Iranian Nationwide University Entrance Exam (Among +300,000),	2017
Bronze Medal , Iranian National Math Olympiad	2015, 1016
Gold Medal in the 9th International Mathematics Contest , IMC (Singapore) [certificate]	2013

TEACHING EXPERIENCE

University of Washington <i>Deep Learning</i>	Winter 2024
Sharif University of Technology <i>Artificial Intelligence, Discrete Structures, Data Structures and Algorithms, Advanced Programming</i>	2018-2020

SKILLS

Programming: Python, Java, C/C++, LaTeX
Machine Learning Tools: PyTorch, OpenCV, scikit-learn, NumPy, pandas, matplotlib
Distribution and Deployment Tools: Kubernetes, Docker, Github's CI/CD
Languages: Persian (native), English (advanced, TOEFL score:109), French (Basic)

RELEVANT COURSEWORK

University of Washington

- *Deep Robotic Learning (CSE 599 G), Deep Learning (CSE 493G1), Computational Neuroscience (CSE 528 A)*

Sharif University of Technology

- *Digital Image Processing (graduate), Artificial Intelligence, Machine Learning, Signals and Systems, Advanced Information Retrieval, Linear Algebra, Probability and Statistics, Design of Algorithms, Data Structures*

Online MOOCs

- *CS231n: Convolutional Neural Networks for Visual Recognition by Stanford, Deep Learning Specialization by deeplearning.ai, Machine Learning by Stanford-Online.*

Machine Vision and Learning Winter School

- *Brain Engineering Center and Cognitive Science School, IPM, Iran [certificate]*

ACADEMIC SERVICES

Reviewer of CVPR 2024 <i>Reviewing 3 papers in Embodied-AI and Computer Vision</i>	12/2023
Student Volunteer at ICCV 2023 <i>Helped with different logistic tasks at the conference [certificate]</i>	10/2023
Member of Executive Team in Sharif Artificial Intelligence Challenge <i>Sharif University of Technology</i>	03/2018
Member of Executive Team in the ACM International Collegiate Programming Contest <i>Sharif University of Technology</i>	12/2017