Sepehr **Dehdashtian**

PH.D. STUDENT IN COMPUTER SCIENCE

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Education

Ph.D. in Computer Science and Engineering   *Jun. 2022 - present*

MICHIGAN STATE UNIVERSITY   *Michigan, USA*

M.Sc. in Electrical Engineering   *Sep. 2018 - Feb. 2021*

SHARIF UNIVERSITY OF TECHNOLOGY   *Tehran, Iran*

- GPA: 3.87
- Thesis: Blind Recognition of Channel Codes Using Deep Neural Networks

B.Sc. in Electrical Engineering   *Sep. 2014 - Sep. 2018*

SHAHID CHAMRAN UNIVERSITY OF AHVAZ   *Ahvaz, Iran*

- GPA: 3.93 (Ranked 1st)

Research Interests

- Computer Vision
- Representation Learning
- Trustworthy AI
- Fairness
- Generative Models
- Multimodal Models

Publications

FAccT'24   **The Dark Side of Dataset Scaling: Evaluating Racial Classification in Multimodal Models**   *2024*
A. Birhane*, S. Dehdashtian*, V. Prabhu, and V. Boddeti

CVPR'24   **Utility-Fairness Trade-Offs and How to Find Them**   *2024*
S. Dehdashtian, B. Sadeghi, and V. Boddeti

ICLR'24   **FairerCLIP: Debiasing Zero-Shot Predictions of CLIP in RKHSs**   *2024*
S. Dehdashtian*, L. Wang*, and V. Boddeti

TMLR   **On characterizing the trade-off in invariant representation learning**   *2022*
B. Sadeghi, S. Dehdashtian, and V. Boddeti

IEEE WCL   **Deep-Learning Based Blind Recognition of Channel Code Parameters over Candidate Sets under AWGN and Multi-Path Fading Conditions**   *2021*
S. Dehdashtian, M. Hashemi, and S. Salehkaleybar

Honors & Awards

2023	**Department of Computer Science and Engineering Fellowship,** Michigan State University	*USA*
2022	**Shortlisted for TMLR Outstanding Paper Award,** Transactions on Machine Learning Research	*USA*
2022	**Received TMLR Featured Certification,** Transactions on Machine Learning Research	*USA*
2021	**Ranked 2nd GPA the graduating class of 2021,** M.Sc. program at Sharif University of Technology	*Iran*
2018	**Ranked 5st among more than 30,000 participants,** Iranian University Entrance Exam for Master's degree in Electrical Engineering.	*Iran*
2018	**Ranked 1st GPA the graduating class of 2018,** B.Sc. program at Shahid Chamran University of Ahvaz	*Iran*
2014-21	**Received the national graduate and undergraduate full scholarships,** M.Sc. and B.Sc. programs	*Iran*

Academic Projects

Mitigating Political Bias in Pre-Trained Large Language Models *Michigan State University*
NATURAL LANGUAGE PROCESSING   *2023*

Visually Explaining Fair Representation Learning—A Model Perspective *Michigan State University*
MACHINE LEARNING   *2023*

Video Synopsis using OpenCV in Python *Sharif U.*
COMPUTER VISION   *2019*

Skills

AI/ML	Python (PyTorch, PyTorch-Lightning, TensorFlow, Keras, OpenCV, Scikit-Learn)
Programming Language	Python, C, C++, SQL, CUDA, Verilog, VHDL
Software	MATLAB, LaTeX, ISE Xilinx, Modelsim, CodeVision, Keil, Proteus
Hardware	FPGA, Microcontrollers, GPU, Raspberry Pi
Languages	English, Farsi
Others	Git, Linux, Windows

Experience

Human Analysis Lab. Research *Michigan State University*
RESEARCH ASSISTANT   *Jun. 2022 - present*

Learning and Intelligent Systems Lab. *Sharif U.*
RESEARCH ASSISTANT   *Nov. 2018 - Feb. 2021*

Digital Systems II: Verilog hardware description language *Shahid Chamran U.*
TEACHING ASSISTANT   *2017 - 2018*

Communication Systems *Shahid Chamran U.*
TEACHING ASSISTANT   *2017 - 2018*

Designed a Data Logger webserver *Radaq Company*
INTERN   *Jul. 2017 - Sep. 2017*

Scientific-Students Associations of Clean Energy *Shahid Chamran U.*
DEPUTY SECRETARY   *2016*

Scientific-Students Associations of Electrical and Electronic Eng. Department *Shahid Chamran U.*
MEMBER   *2015*