

# Sepehr Dehdashtian

PH.D. STUDENT IN COMPUTER SCIENCE

East Lansing, Michigan, USA

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## Education

### Ph.D. in Computer Science and Engineering

MICHIGAN STATE UNIVERSITY

Jun. 2022 - present

Michigan, USA

### M.Sc. in Electrical Engineering

SHARIF UNIVERSITY OF TECHNOLOGY

Sep. 2018 - Feb. 2021

Tehran, Iran

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

### B.Sc. in Electrical Engineering

SHAHID CHAMRAN UNIVERSITY OF AHVAZ

Sep. 2014 - Sep. 2018

Ahvaz, Iran

- GPA: 3.93 (Ranked 1<sup>st</sup>)

## Research Interests

- Fairness in Machine Learning
- Fairness in Generative Models
- Vision-Language Models
- Invariant Representation Learning

## Publications

- FACCT'24** **The Dark Side of Dataset Scaling: Evaluating Racial Classification in Multimodal Models** [Under Review]  
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 2<sup>nd</sup> GPA the graduating class of 2021**, M.Sc. program at Sharif University of Technology Iran
- 2018 **Ranked 5<sup>th</sup> among more than 30,000 participants**, Iranian University Entrance Exam for Master's degree in Electrical Engineering. Iran
- 2018 **Ranked 1<sup>st</sup> 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

NATURAL LANGUAGE PROCESSING

Michigan State University

2023

### Visually Explaining Fair Representation Learning—A Model Perspective

MACHINE LEARNING

Michigan State University

2023

### Video Synopsis using OpenCV in Python

COMPUTER VISION

Sharif U.

2019

## Skills

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

## Experience

### Human Analysis Lab. Research

RESEARCH ASSISTANT

Michigan State University

Jun. 2022 - present

### Learning and Intelligent Systems Lab.

RESEARCH ASSISTANT

Sharif U.

Nov. 2018 - Feb. 2021

### Digital Systems II: Verilog hardware description language

TEACHING ASSISTANT

Shahid Chamran U.

2017 - 2018

### Communication Systems

TEACHING ASSISTANT

Shahid Chamran U.

2017 - 2018

### Designed a Data Logger webserver

INTERN

Radaq Company

Jul. 2017 - Sep. 2017

### Scientific-Students Associations of Clean Energy

DEPUTY SECRETARY

Shahid Chamran U.

2016

### Scientific-Students Associations of Electrical and Electronic Eng. Department

MEMBER

Shahid Chamran U.

2015