

David Mosallanezhad

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RESEARCH INTERESTS

My research is about Trustworthy AI. My focus is studying privacy, fairness, and robustness of AI/ML systems.

EDUCATION

Arizona State University

PhD, Computer Science

- 4.0/4.0 GPA
- Funded by [DHS-CAOE](#)

Spring 2019 - 2022

Tempe, AZ

Shiraz University

MSc, Computer Science, Artificial Intelligence

- 4.0/4.0 GPA

2015 - 2018

Shiraz, Iran

Shiraz University

BSc, Computer Science, Software Engineering

- 3.83/4.0 GPA

2011 - 2015

Shiraz, Iran

TECHNICAL SKILLS

Skills: Data analysis using Python, PyTorch, Tensorflow, Keras, Numpy, and Scikit – SQL – Web Servers – AWS – Google Cloud Platform – NVIDIA NeMo – NVIDIA NGC

Experiences: C++, C, Kotlin, and JAVA.

WORK EXPERIENCE

NVIDIA

Senior Applied Research Scientist, AI Apps Team

Jun 2022 – Present

Remote

NVIDIA

Applied Research Intern, AI Apps Team

Jun 2021 – Aug 2021

Remote

- Researched the robustness of neural machine translation (NMT) models
- Created data augmentation methods to mitigate gender bias and make a robust NMT model

DHS-CAOE

Graduate Research Assistant

Aug 2019 – Aug 2022

Tempe, AZ

- Working on a program to audit a machine learning model to analyze its fairness
- Researching on face-matching task difficulties for both AI and human
- Analyzing different face recognition models in terms of privacy and fairness

DMML Lab

Graduate Research Assistant

Aug 2019 – Present

Tempe, AZ

- Leading a comprehensive survey on text generation and detecting machine-generated text
- Consultant for deep-fake and NLP related projects

Allen Institute for AI

Volunteer Remote

Jul 2020 – Present

- Volunteer for ParsiGLUE project, a suite of high-level NLP tasks for Persian language
- Currently working on query-query paraphrasing task: data annotation, and benchmark models

Shiraz University <i>IT Manager</i>	2017 <i>Shiraz, Iran</i>
<ul style="list-style-type: none"> Setting up server farm for Deep Learning purposes and managing them 	
East Data Processing <i>Lead Python Programmer</i>	2016 – 2017 <i>Tebran, Iran</i>
<ul style="list-style-type: none"> Leading a project to create hassle-free APIs for different websites Created a parallel program for executing user's commands to automate routine processes on different websites 	
Shiraz University <i>Web Developer</i>	2015 – 2016 <i>Shiraz, Iran</i>
<ul style="list-style-type: none"> One of creators of the Open-Source Electrophysiological Toolbox website 	
Shiraz University <i>Undergrad Researcher</i>	2012 <i>Shiraz, Iran</i>
<ul style="list-style-type: none"> Collected and researched important Android vulnerabilities and exploits 	

MENTORING

Nayoung Kim <i>Data Mining and Machine Learning Lab, ASU</i>	2021 – Present
Zeyad Alghamdi <i>Data Mining and Machine Learning Lab, ASU</i>	2022 – Present
Mertay Dayanc <i>Data Mining and Machine Learning Lab, ASU</i>	2021

PUBLICATIONS (Google Scholar: [David Mosallanezhad - Google Scholar](#))

Bridging the Gap between Online and Offline Data. Nayoung Kim, Ahmadreza Mosallanezhad, Lu Cheng, Baoxin Li, Huan Liu	Under Review
Let's Eat Grandma: Does Punctuation Matter in Sentence Representation? Mansoorah Karimi*, Ahmadreza Mosallanezhad*, Michelle Mancenido, Huan Liu * Equal contribution	ECML-PKDD'22
Bias Mitigation for Toxicity Detection via Sequential Decisions Lu Cheng, Ahmadreza Mosallanezhad, Yasin Silva, Deborah Hall, Huan Liu	SIGIR'22
Domain Adaptive Fake News Detection via Reinforcement Learning Ahmadreza Mosallanezhad, Mansoorah Karami, Kai Shu, Michelle Mancenido, Huan Liu	WWW'22
Generating Topic-Preserving Synthetic News Ahmadreza Mosallanezhad, Kai Shu, Huan Liu	BigData'21
Mitigating Bias in Session-based Cyberbullying Detection: A Non-Compromising Approach Lu Cheng*, Ahmadreza Mosallanezhad*, Yasin Silva, Deborah Hall, Huan Liu * Equal contribution	ACL'21
Causal Learning for Socially Responsible AI Lu Cheng, Ahmadreza Mosallanezhad, Paras Sheth, Huan Liu	IJCAI'21

How Deferral Rate Can Affect Human Performance and Trust Perception?

A Human-AI Joint Face-Detection Task

IEA'21

Pouria Salehi, Erin Chiou, Michelle Mancenido, **Ahmadreza Mosallanezhad**, Aksheshkumar Shah, Myke Cohen

Toward Privacy and Utility Preserving Image Representation

SBP-BRiMS'20

Ahmadreza Mosallanezhad, Yasin Silva, Michelle Mancenido, Huan Liu

Privacy-Aware Recommendation with Private-Attribute Protection using Adversarial Learning

WSDM'20

Ghazaleh Beigi, **Ahmadreza Mosallanezhad**, R. Guo, H. Alvani, Alexander Nou, Huan Liu

Deep Reinforcement Learning-based Text Anonymization against Private-Attribute Inference

EMNLP'19

Ahmadreza Mosallanezhad, Ghazaleh Beigi, Huan Liu

PATENT

Deep Reinforcement Learning-based Text Anonymization against Private-Attribute Inference

pending

US patent application number: 63/114,285

AWARDS

Engineering Graduate Fellowship

2020

Offered in recognition of extraordinary academic achievements

Winner of Sunhacks hackathon

2019

Our team ended in 2nd place by building an application for voice-guided and easy grocery shopping

Awarded as Best Graduate Student in Artificial Intelligence

2018

Offered in recognition of extraordinary academic achievements

Awarded as Best Graduate Student in Artificial Intelligence

2015

Offered in recognition of extraordinary academic achievements

EXTRACURRICULAR ACTIVITIES

Program Committee (PC) member of ECML-PKDD 2022 conference

2022

Program Committee (PC) member of EMNLP 2021 conference

2021

Program Committee (PC) member of IJCAI 2021 conference

2021

Program Committee (PC) member of NAACL-HLT 2021 conference

2021

Invited Reviewer for ACL 2021 conference

2021

Volunteer at EMNLP 2020 conference

2020

Guest lecturer for Social Media Mining course

2020

Program Committee (PC) member of AAAI 2020

2020

Volunteer at ACL 2020 conference

2020

Reviewer at NeurIPS, ECML-PKDD, and ICWSM conferences

2020

Reviewer at SNAM, KAIS, and TWEB journals

2020

Winner of Sunhacks hackathon, 2nd place

2019

Reviewer at KDD, SIGIR, and CIKM conferences

2019