

David Mosallanezhad

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RESEARCH INTERESTS

My research interest mainly lies within **machine learning**, **reinforcement learning** and **natural language processing** algorithms and their applications.

EDUCATION

Arizona State University

PhD, Computer Science

Spring 2019 - 2023

Tempe, AZ

- **3.86/4.0 GPA**
- **Engineering Graduate Fellowship**, offered in recognition of extraordinary academic achievements
- Funded by **DHS-CAOE**

Shiraz University

MSc, Computer Science, Artificial Intelligence

2015 - 2018

Shiraz, Iran

- **4.0/4.0 GPA**
- **Awarded as Best Graduate Student in Artificial Intelligence**

Shiraz University

BSc, Computer Science, Software Engineering

2011 - 2015

Shiraz, Iran

- **3.83/4.0 GPA**
- **Awarded as Best Undergrad Student in Software Engineering**

WORK EXPERIENCE

DHS-CAOE

Graduate Research Assistant

Aug 2019 – Present

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
- Creating and analyzing different face recognition models in terms of privacy and fairness
- Leading project on creating privacy-preserving image representations

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

IT Manager

2017

Shiraz, Iran

- Setting up server farm for Deep Learning purposes and managing them

East Data Processing

Lead Python Programmer

2016 – 2017

Tehran, Iran

- 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

Web Developer

- One of creators of the Open-Source Electrophysiological Toolbox website

2015 – 2016

Shiraz, Iran

Shiraz University

Undergrad Researcher

- Collected and researched important Android vulnerabilities and exploits

2012

Shiraz, Iran

TECHNICAL SKILLS

Skills: Data analysis using Python, PyTorch, Tensorflow, Keras, Numpy, and Scikit – SQL – Web Servers

Experiences: C++, C, and JAVA.

SELECTED PROJECTS

Implemented various Reinforcement Learning (RL) models on the Wumpus world 2020

- Final project of CSE 571 (Artificial Intelligence)
- Made the Wumpus World as a GYM environment available on PyPi

Question answering using BERT 2019

- Improved the base BERT model for question answering problem

Stackoverflow question tag detection 2017

- Designed different machine learning models to detect relevant tags based on a given question

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

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

Sentiment Analysis Using Syntactic Trees

under review

Mansoor Karimi*, **Ahmadreza Mosallanezhad***, Michelle Mancenido, Huan Liu

* Equal contribution

Synthetic News Generation

under review

Ahmadreza Mosallanezhad, Kai Shu, Huan Liu

Domain Adaptive Fake News Detection

under review

Kai Shu*, **Ahmadreza Mosallanezhad***, Steve Javed, Michelle Mancenido, Huan Liu

* Equal contribution

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. Alvari, 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

EXTRACURRICULAR ACTIVITIES

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
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
Teaching Assistant for CSE 101, CSE 180, and CSE 205 courses	2019