

# David Mosallanezhad

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## RESEARCH INTERESTS

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

## EDUCATION

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### Arizona State University

*PhD, Computer Science*

**Spring 2019 - 2023**

*Tempe, AZ*

- **3.75/4.0 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

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### 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

**Shiraz University**

*Undergrad Researcher*

- Collected and researched important Android vulnerabilities and exploits

**2015 – 2016**

*Shiraz, Iran*

**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

**Sentiment Analysis Using Syntactic Trees**, under review

Ahmadreza Mosallanezhad, Mansoor Karimi, Michelle Mancenido, Huan Liu

**Synthetic News Generation**, under review

Ahmadreza Mosallanezhad, Kai Shu, Huan Liu

**Doman Adaptive Fake News Detection**, under review

Ahmadreza Mosallanezhad, Kai Shu, Steve Jadev, Michelle Mancenido, Huan Liu

**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

## EXTRACURRICULAR ACTIVITIES

- **Program Committee (PC) member of IJCAI 2021 and NAACL-HLT 2021** 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, 2<sup>nd</sup> place** 2019
- **Reviewer at KDD, SIGIR, and CIKM conferences** 2019
- **Teaching Assistant for CSE 101, CSE 180, and CSE 205 courses** 2019