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 **Spring 2019 - 2023**
PhD, Computer Science *Tempe, AZ*
- **3.75/4.0** GPA
- **Engineering Graduate Fellowship**, offered in recognition of extraordinary academic achievements
- Funded by **DHS-CAOE**

Shiraz University **2015 - 2018**
MSc, Computer Science, Artificial Intelligence *Shiraz, Iran*
- **4.0/4.0** GPA
- **Awarded as Best Graduate Student in Artificial Intelligence**

Shiraz University **2011 - 2015**
BSc, Computer Science, Software Engineering *Shiraz, Iran*
- **3.83/4.0** GPA
- **Awarded as Best Undergrad Student in Software Engineering**

WORK EXPERIENCE

DHS-CAOE **Aug. 2019 – Present**
Graduate Research Assistant *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 **Aug. 2019 – Present**
Graduate Research Assistant *Tempe, AZ*
- Leading a comprehensive survey on text generation and detecting machine-generated text
- Consultant for deep-fake and NLP related projects

Shiraz University **2017**
IT Manager *Shiraz, Iran*
- Setting up server farm for Deep Learning purposes
- Maintaining and managing several servers (including Git and web servers)

East Data Processing **2016 – 2017**
Lead Python Programmer *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 **2015 – 2016**
Web Developer *Shiraz, Iran*
- One of creators of the Open-Source Electrophysiological Toolbox website

Shiraz University **2012**
Undergrad Researcher *Shiraz, Iran*
- Collected and researched important Android vulnerabilities and exploits

TECHNICAL SKILLS

Skills: Data analysis using Python, PyTorch, Tensorflow, Keras, Numpy, and Scikit
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
Ahmadrea Mosallanezhad, Mansooreh Karimi, Michelle Mancenido, Huan Liu

Synthetic News Generation, under review
Ahmadrea Mosallanezhad, Kai Shu, Huan Liu

Doman Adaptive Fake News Detection, under review
Ahmadrea Mosallanezhad, Kai Shu, Steve Jadev, Michelle Mancenido, Huan Liu

Toward Privacy and Utility Preserving Image Representation, SBP-BRiMS 20
Ahmadrea Mosallanezhad, Mansooreh Karimi, Michelle Mancenido, Huan Liu

Privacy-Aware Recommendation with Private-Attribute Protection using Adversarial Learning, WSDM 20
Ghazaleh Beigi, **Ahmadrea Mosallanezhad**, R. Guo, H. Alvari, Alexander Nou, Huan Liu

Deep Reinforcement Learning-based Text Anonymization against Private-Attribute Inference, EMNLP 19
Ahmadrea Mosallanezhad, Ghazaleh Beigi, Huan Liu

EXTRACURRICULAR ACTIVITIES

- **Program Committee (PC) member of IJCAI 2021** **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**