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*
- **3.86/4.0** 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

Allen Institute for AI **Jul 2020 – Present**
Volunteer Remote
- 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 **2017**
IT Manager *Shiraz, Iran*
- Setting up server farm for Deep Learning purposes and managing them

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 – SQL – Web Servers – AWS – Google Cloud Platform
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**
Mansooreh 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 Jadev, 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**
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**
Teaching Assistant for CSE 101, CSE 180, and CSE 205 courses	**2019**