SINA MOHSENI

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EDUCATION

- Computer Science PhD candidate, Texas A&M University, College station, Texas. HCI and Visual Analytics major. (2016- present)
- M.Sc. in Electronic Engineering, Babol Noshirvani University, Iran. Computer Vision major. (2012-14)
- B.Sc. in Electrical and Electronic Engineering, University of Isfahan, Iran. (2007-11)

PROFESSIONAL EXPERIENCE

- **RESEARCH ASSISTANT, TEXAS A&M UNIVERSITY.**
  - Project 1: "Explainable Artificial Intelligence", DARPA Research Grant. (Fall 2017- present)
    - Published an online human grounded evaluation benchmark for text and image interpretable classifiers (Javascript, Python).
    - Designed and performed user studies to evaluate machine explanation quality's effect in user's trust (Javascript).
    - Designed and performed user studies to evaluate interpretable machine learning's efficacy in real-world (Javascript).
  - Project 2: "User Interaction Logs Segmentation for Analytic Provenance Visualization and Retrieval", NSF Research Grant. (Fall 2016- present)
    - Designed and implemented a user interaction logs clustering method for analytic provenance retrieval (D3.js, Gensim, Python).
    - Developed a novel segmentation technique and visual design for user interaction segmentation in analytic provenance (D3.js, Gensim, Python).
    - Published an online analytic provenance dataset: including user interaction logs and coded data for 24 participants.
- **RESEARCH ASSISTANT, OREGON STATE UNIVERSITY.**
  - Implemented a Design Automation Toolbox for CAD Kernels to Apply Shrinkage Factors in Investment Casing (C#). Center for e-Design Grant. (2016)
- **TEACHING ASSISTANT, OREGON STATE UNIVERSITY.**
  - Grading for Computer Architecture Course. (Fall 2015)
- **RESEARCH ASSISTANT, BABOL NOSHIRVANI UNIVERSITY.**
  - Project 1: Designed and Implemented a New Metaheuristic Optimization Algorithm: Competition Over Resource (Matlab). (Spring 2014 - Summer 2015)
    - Publications: five peer-reviewed papers.
  - Project 2: Developed a Facial Expression Recognition System Based on Anatomical Structure of Human Face (Matlab). (Fall 2013 - Fall 2014)
    - Publications: MSc. thesis, four peer-reviewed papers.

TECHNICAL SKILLS

- Languages: Python, JavaScript, R, MATLAB, C++, C#.
- Machine learning: SciPy, Gensim.
- Data visualization: D3.js, ggplot2, Matplotlib.
- HCI: Contextual Design, Heuristic Analysis, Interaction Logs Analysis, Empirical Methods and Statistical Analysis, Behavioral Data Coding, Think Aloud.

INDUSTRIAL EXPERIENCE

- Robotic League Director, NUT, Iran. (Fall 2014)
- Med. Tech. Medical Laboratory Systems, Iran. (2013).
- Almas Electronic Co., Iran. (2010-12)
- Internship at Pishraneh Co., Iran. (2009)

PATENTS

- Insulator Leakage Current Monitoring and Alarm System in Power Transmission Systems, Iran Patent Office, IRP/021579. (2014)
- Blood Pressure Monitor Calibrating Device and Corresponding Method, European Patent, WO/2014/060012. (2010)

AWARDS

- Golestan Province Power Distribution Co. Research Grant (PI), "Insulator Leakage Current Monitoring and Alarm System in Power Transmission Systems". (2014)
- Isfahan Province Regional Power Distribution Co. Research Grant (Co-PI), "Study on Effects of CFL Lamp on Power Distribution System". (2011)