

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.
 - Designed and performed user studies to evaluate machine explanation quality’s effect in user’s trust.
 - Designed and performed user studies to evaluate interpretable machine learning’s efficacy in real-world.
- ❖ 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.
 - Developed a novel segmentation technique and visual design for user interaction segmentation in analytic provenance.
 - 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. 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. (Spring 2014 - Summer 2015)
 - Publications: five peer-reviewed papers.

- ❖ Project 2: Developed a Facial Expression Recognition System Based on Anatomical Structure of Human Face. (Fall 2013 - Fall 2014)
 - Publications: MSc. thesis, four peer-reviewed papers.

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)

REFEREED PUBLICATIONS

- 7 First Author; 6 Co-author; 3 under review.
- List of all publications is available online.

TECHNICAL SKILLS

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

CORE COMPETENCE

- Excellent Problem Solving and Creative Thinking Skills.
- Strong Leadership and Micromanagement Skills.
- Strong Communication and Collaboration Skills.