

# Mojdeh Saadati

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## EDUCATION

### 2017-2021 Ph.D. in Computer Science

Department of Computer Science, Iowa State University  
Current Cumulative GPA: 3.96/4

### 2011-2016 B.Sc. in Computer Science

Department of Mathematics, Statistics and Computer Science, Tehran University  
Cumulative GPA: 16.54/20

## PUBLICATION AND PROJECT EXPERIENCES

### Publications:

1. **M Saadati**, J Tian, Adjustment criterion for recovering causal effects from missing data. (Accepted in ECMLPKDD)
2. S Shahraz, AG Pittas, **M Saadati**, CP Thomas, CM Lundquist, DM Kent; Change in testing, awareness of hemoglobin A1c result, and glycemic control in US adults, 2007-2014; *Jama* 318 (18); 1825-1827.
3. **Mojdeh Saadati**, Syed Shihab, Mohammed Shaiqur Rahman; Movie recommender systems: Implementation and performance evaluation, based on user-user collaborative filtering, item-item collaborative filtering, content based recommendation, SVD, and neural networks (technical report uploaded to arxiv).
4. M Parsaeian, M Mahdavi, **M Saadati**, P Mehdipour, S Shahraz; Introducing a sampling method for limited sample size to represent a large geographic area: Application to a national study to determine quality and cost of healthcare. (submitted to BMC medical research methodology BMRM-D-19-00367)

### Course and Contract Projects:

5. Comparison of three data models, Naïve-Bayesian, Decision Tree and K-NN for prediction of Tweets Feedback of IMDb, Pandora, Goodreads and Youtube data by Java and RapidMiner.
6. Lazy Agent (Finding the optimum path among paths with different energies and obstacles) with different algorithms including: A\*, IDA\*, Tabu Search and Learning Automata by C++.
7. Developing a medical translation software (English to Persian) for Teimourzadeh Publisher by C#.

## RESEARCH AND TEACHING EXPERIENCES

- 2017-2019 Research Assistant on Causal Inference Identifiability in Machine Learning and Artificial Intelligence Laboratory of Professor Jin Tian at Iowa State University.
- 2017 Teaching Assistant in Object Oriented Programming by Java Language at Iowa State University.
- 2016 Working as a data scientist at Non-Communicable Diseases Research Center for analyzing Iran Census data for estimating health care quality in the country. Cleaning and interpreting data using Principle Component Analysis (PCA), Decision Tree, Hierarchical and Model-Based Clustering.
- 2013 Teaching “A Mathematical Primer for Social Statistics (Quantitative Applications in the Social Sciences)” book and “R programming” at Non-Communicable Diseases Research Center (NCDRC), Tehran, Iran via holding three workshops with the size of 50 people.

## MEMBERSHIPS

- 2019-2020 Member of computer science graduate student organization (CS-GSO) committee.
- 2019-2020 Member of graduate and professional student center senator (GPSS), health and wellness committee at Iowa State University.

- 2018 Secretary of Iranian students' and scholars' association organization (ISSA).
- 2018-2019 Member of association for computing machinery (ACM), and its women branch (ACM-W).
- 2012-2016 Member of Iran's student committee of informatics.
- 2016 Member of Iran's Red Crescent society.

#### **AWARDS & FUNDING**

- 2019 1. 1<sup>st</sup> place in poster presentation: "Adjustment for recovering causal effects in missing data" at computer science graduate student organization (CS-GSO) Iowa State University.
- 2019 2. 2<sup>nd</sup> place in poster presentation "Adjustment for recovering causal effects in missing data" at Iowa State University computer science department 50<sup>th</sup> anniversary.
- 2019 3. CRA-W grad cohort workshop for women (full travel cost covered).
- 2011 4. Ranked as the top 0.7% among nearly 280,000 participants in the nationwide universities entrance exam, Iran.
- 2010 5. 1<sup>st</sup> place in roboCup soccer 2D simulation league at international championship "Iran Open", Iran.
- 2010 6. 6<sup>th</sup> place in roboCup soccer 2D simulation league at "world championship", Singapore.

#### **RESEARCH INTEREST**

Causal Inference, Machine Learning, Artificial Intelligence, Data Mining, Biostatistics, Natural Language Processing

#### **SKILLS**

**Proficient:** Python, TensorFlow, Java, C++, R, SQL. **Intermediate:** MATLAB, C#, SAS, Linux, Caffe.