

# Amin Hosseiny Marani

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## EDUCATION

**Lehigh University, Bethlehem, PA**

*August 2018 - Present*

PhD, Computer Science

GPA: 3.57/4

Relevant Coursework: Advanced Programming, Social Computing, Data Mining

**Iran University of Science and Technology, Tehran, Iran**

*2011 - 2014*

Master of Computer Engineering

GPA: 15.13/20

Relevant Coursework: Machine learning, Distributed AI, Neural Networks, Pattern Recognition

**Shahid Chamran University, Ahvaz, Iran**

*2007 - 2011*

Bachelor of Computer Engineering

GPA: 14.53/20 (Top 5%)

## PUBLICATION

**Hosseiny Marani, A.**, Baumer, E.P.S., and Joshua Levine (2020). Multi-Dimensional, Human-Centered Assessment of Topic Modeling Label Quality. Submitted to Transactions of the Association for Computational Linguistics.

Baumer, E.P.S. and **Hosseiny Marani, A.** (2020). Bias as a Distinct Factor in Human Ratings of Machine Labeling. in Human-Centered Approach to Fair Responsible AI at ACM Conference on Human Factors in Computing Systems (CHI), (Honolulu, HI).

## EXPERIENCE

**DESIGN, ALGORITHMS, AND SOCIETY (DAS) LAB**

Lehigh University, Bethlehem, PA

*Graduate Research Assistant*

*2018-present*

- Designed a **CNN** to extract topics and connected to an **LSTM** to translate texts.
- Developed and analyzed a novel topic labeling and frame labeling **human assessment** method.
- Designed a **word embedding** based approach for **topic labeling**.
- Improved Retinopathy segmentation and classification with **CNN** and by **enhancing Retinal image**.
- Developed a new **interactive topic visualization method with R** to increase readability and stability.

**Shahid Chamran University**

Ahvaz, Iran

*Teacher And Advisor*

*2015-2017*

- **Taught** 5 courses (Advanced Programming and Algorithms) and **advised** 5 undergraduate students.

**Complex Systems Lab**

Iran University of Science and Technology, Tehran, Iran

*Graduate Research Assistant*

*2010-2013*

- Developed **character recognition** module with **OpenCV C++** and connected with a **C#** application
- Designed a novel chaotic Boltzmann **neural network** to speed up the convergence.

**Mobin Information Technology Research Center**

Tehran, Iran

*Java Developer*

*2011-2012*

- **Led** the localization of communication component of the **Java** Business Process Management (jBPM)

## SKILLS

**Programming Languages:**

(Proficient)R, Python, Matlab; (Familiar) C#, Java, C, C++

**Frameworks and Tools:**

Mallet, TensorFlow, Convokit, Sarl, OpenCV, Hadoop, Git

## SERVICES

**Reviewer**

NeuroComputing Journal

*Reviewer of an Elsevier journal in the field of neural networks and machine learning*

*2017-present*

**CSE Department Representative**

Lehigh University, Bethlehem, PA

*the Graduate Student Senate*

*present*