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# Amirhossein Herandi

## WORK EXPERIENCE

May 2017 – December 2017 Research Intern at **Siemens Healthineers in Malvern, PA** *Practiced skills:* Natural Language Processing, Bidirectional LSTMs, GRUs, and CNNs, working with and cleaning Medical Text data

## EDUCATION

2015–present **M.Sc. Student in Computer Science**, *University of Texas at Arlington*, Arlington, Texas  
GPA (to date): 3.5/4.0

2010–2015 **B.Sc. In Computer Science**, *Sharif University of Technology*, Tehran, Tehran, Iran

## RESEARCH INTERESTS

Machine Learning & Data Mining

Deep Learning

Computer Vision

Natural Language Processing

Bioinformatics & Medical Image Analysis

Artificial Intelligence

## HONORS

September 2006 Admitted to the **NODET** High school (*National Organization for Development of Exceptional Talents*)  
[en.wikipedia.org/wiki/Nodet](https://en.wikipedia.org/wiki/Nodet)

## PUBLICATIONS

2017 **Deep Clustering via Joint Convolutional Autoencoder Embedding and Relative Entropy Minimization**, Kamran Ghasedi, Amirhossein Herandi, Heng Huang  
(*Published at ICCV 2017*)

2018 **Accelerated Hierarchical Adaptive Soft Impute for Large-Scale Recommender Systems**, Amirhossein Herandi, Zhouyuan Huo, Heng Huang (*under review*)

## TEACHING EXPERIENCE

Teaching Assistant

Fall 2015 **"Introduction to programming with JAVA I"**, by Prof. C. Tiernan

Spring 2016 **"Advanced Algorithms"**, by Prof. Md Mehrab Shahriar & Prof. Bob Weems

Summer 2016 **"Introduction to programming with JAVA I"**, by Prof. C. Conly

Fall 2016 **"Intermediate programming, C"**, by Prof. C. Conly

Spring 2017 "Artificial Intelligence I", by Prof. Vamsikrishna GopiKrishna

Spring 2018 "Advanced Software Engineering - Agile Programming", by Prof. Bahram Khalili

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## ACADEMIC PROJECTS

- 2010 Implementing a complete game of chess using JAVA  
*Supervisor: Prof. A. Zarei*
- 2011 Recreating the Pacman game in JAVA  
*Supervisor: Prof. A. Zarei*
- 2011 Fabrication of a simple P2P file transfer system in JAVA  
*Supervisor: Prof. A. Zarei*
- 2012 Simulating a simple ecosystem of creatures with the rules of Operating Systems *via* MATLAB  
*Supervisor: Prof. A. Zarei*
- 2013 Creating a full example of an FTP server/client  
*Supervisor: Prof. Rahim Ramezani*
- 2014 creating a fully working implementation of Random Forest Algorithm  
*Supervisor: Prof. M. Madani*
- 2014 Designing an intelligent classroom  
*Supervisor: Prof. A. Nazari Shirejini*

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## COMPUTER SKILLS

- Programming** Python, JAVA, C++, MATLAB
- Deep Learning** PyTorch, Theano, Lasagne, Tensorflow, Keras, Caffe, MXNet, Torch
- Toolboxes**
- Analysis** Rapidminer
- Modeling** 3Ds Max, AutoCAD, Vensim
- Office** Word, PowerPoint, Excel
- OS** Linux, Windows, Mac OS X
- Other** NLTK, L<sup>A</sup>T<sub>E</sub>X, Photoshop, Lightroom

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## LANGUAGES

Persian **Mother Tongue**

English **Fluent**

TOEFL iBT Score: **111/120** (R:29, L:30, S:24, W:28)

GRE Score: (V:160, Q:163, W:3.0)

Arabic **Intermediate**

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## INTERESTS

- Cooking, Baking, and Brewing Coffee
- Everything Related to Computers
- Oil Painting
- Playing Piano
- Reading Novels
- Tennis
- Tinkering
- Listening to Music
- Watching Movies and TV Shows
- Playing Video Games

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## REFERENCES

**Prof. Heng Huang** Former Distinguished University Professor **University of Texas at Arlington**  
John A. Jurenko Endowed Professor **University of Pittsburgh**  
🏠 [pitt.edu/~heh45](http://pitt.edu/~heh45)  
✉ [heng.huang@pitt.edu](mailto:heng.huang@pitt.edu)

**Prof. Yoshihisa Shinagawa** Senior Data Scientist At **Siemens Healthineers**  
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**Halid Yerebakan** Data Scientist At **Siemens Healthineers**  
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**Xiang Sean Zhou** Head of Imaging Innovation & Global Head for CAD at **Siemens Healthineers**  
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