

MOHAMMAD MEHDI REZAEI TAGHIABADI

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markovblanket.github.io

INTERESTS

Natural Language Processing, Deep Learning, Bayesian Networks

EDUCATION

Doctor of Philosophy in Electrical Engineering University of Maryland Baltimore County. GPA: 3.75/4	2017-present
Master of Science in Electrical Engineering Sharif University of Technology (Tehran, Iran) (Thesis: Multi-Camera action recognition with manifold learning) GPA: 16.34/20	2014-2017
Bachelor of Science in Electrical Engineering Isfahan University of Technology (Tehran, Iran) GPA: 16/20	2010-2014

SKILLS AND INTERESTS

Programming Languages	Python, C++, Matlab, Android
Tools, Libraries	Tensorflow, Pytorch, Caffe, OpenCV, OpenGL
Operation Systems	Ubuntu, Mac, Windows

PROJECTS

Simulation of Latent Dirichlet Allocation by using mean field approximation · Under supervision of Dr. Frank. Ferraro, UMBC	Fall 2018
Constructing N-gram models for NLP · Under supervision of Dr. Frank. Ferraro, UMBC	Fall 2018
Constructing maxent (maximum entropy) models for NLP · Under supervision of Dr. Frank. Ferraro, UMBC	Fall 2018
Implementing a supervised HMM Part-of-speech tagger using Viterbi decoding · Under supervision of Dr. Frank. Ferraro, UMBC	Fall 2018
Moving Object Tracking with Extended Kalman Filtering · Under supervision of Dr. K. Aghajan, Prof. Seung-Jun Kim, UMBC	Spring 2017
Simulation of Self-Learning Based Image Decomposition With Single Image Denoising · Under supervision of Dr. Fatemizadeh, Sharif University of Technology	Spring 2015
3D Human Activity Reconstruction With Marker. · Under supervision of Dr. K. Aghajan, Sharif University of Technology	Spring 2015
Head Pose Estimation With Single Camera · Under supervision of Dr. K. Aghajan, Sharif University of Technology	Spring 2015

Simulation of Intensity of Spontaneous Facial Action by Linear Regression

Spring 2015

- Under supervision of Dr. Mohammadzade, Sharif University of Technology

Simulation of Kernel Discriminant Learning for Face Recognition.

Fall 2015

- Under supervision of Dr. Mohammadzade, Sharif University of Technology

Simulation of Echo Cancellation using LMS algorithm

Fall 2014

- Under supervision of Dr. Babaie-Zadeh, Sharif University of Technology

HONOURS AND AWARDS

Ranked 6th of the country among 40 teams in Sharif AI Challenge	2016
Semifinalist of SHEIKH BAHAI Technopreneurship Festival	2016
Ranked 24th of the country, in the M.Sc. Entrance Exam	2014

TEACHING/WORKING EXPERIENCE

Teacher Assistant in CMPE 306 (Introductory Circuit Theory)

Spring and Fall 2017

- Taught by Dr. Yan and Dr. Carter (UMBC)

Teacher Assistant in Signals and Systems

Spring 2016

- Taught by Dr. Babaie-Zadeh (Sharif University of Technology)

Teacher Assistant in Computer Vision in Multi-Camera Networks

Spring 2015

- Taught by Dr. K. Aghajan (Sharif University of Technology)

Teacher Assistant in Adaptive Filters.

Fall 2016

- Taught by Dr. Babaie-Zadeh (Sharif University of Technology)

RELEVANT COURSEWORK

UMBC:

CMSC 673 - Introduction To Natural Language Processing
ENEE 620 - Probability and Random Processes
ENEE 605 - Applied Linear Algebra
ENEE 621 - Detection and Estimation Theory
ENEE 718 - Topics in Signal Processing (Machine Learning)

Sharif University of Technology:

Statistical Learning
Signals And Systems
Digital Signal Processing
Computer Vision
Digital Image Processing
Adaptive Filters

REFERENCES

Prof. Hamid Karbalaie Aghajan

· <http://www.ee.sharif.ir/en/faculty/dr-karbalaie/>

Prof. Hoda Mohammadzade

· <http://sharif.edu/~hoda/>

Prof. Seung-Jun Kim

· <https://www.csee.umbc.edu/people/faculty/seung-jun-kim/>