SEPEHR JANGHORBANI

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EDUCATION

Rutgers University *Jan. 2017 - Present*
PhD Candidate **GPA: 3.92/4.0**
Department of Computer Science (Concentration: Machine Learning)

Sharif University of Technology *Sep. 2011 - Jul. 2016*
Bachelor of Science **GPA: 17.16/20.0**
Department of Computer Engineering

RESEARCH EXPERIENCE

Disney Research Los Angeles *May.2018- Aug 2018*
Worked with the Deep Learning and Natural Language Processing team to develop a knowledge extraction model from natural language as well as a conversaation topic modelling system using deep neural networks.

Rutgers University Machine Learning and NLP Lab *May.2017- Present*
Working on **Deep Learning** models applicable to problems in **feature representation learning**, **Knowledge Representation** and **Structured Deep Inference Models**.

Sharif Machine Learning, Big Data Analysis and Bioinformatics Lab *2014-2016*
Worked under the supervision of Prof. S.A Motahari on proposing a Bayesian method for **statistical association of population-structured data** and disease-causing genes using MCMC.

PUBLICATIONS

Topic Spotting using Hierarchical Networks with Self Attention NAACL 2019

Domain Authoring Assistant for Intelligent Virtual Agents AAMAS 2019

Statistical Association Mapping of Population-Structured Genetic Data
IEEE Transactions on Computational Biology and Bioinformatics

HONORS & AWARDS

Awarded 5000$ Fellowship for Excellence (Awarded based on credentials and the advisors recommendation at the time of admission) *2017*

Ranked 237th (among the top 0.1%) in the National University Entrance Exam (Konkoor) which had **more than 300,000** participants across the nation. *2011*

Admission to Sharif University of Technology, the best and most prestigious university in the country. *2011*

Ranked 11th in the Statewide Students Educational Progress Competition, which had **more than 76000** participants across the state. *Fall 2006*

Ranked 1st in the Students Scientific Competition, in which **more than 100** students participated across the state. *Fall 2003*

Member of National Organization for Development of Exceptional Talents *2004 - Present*
NODET student selection exam is held every year nationwide for students starting middle and high school.The organization is responsible for a number of schools across the country in addition to training the top students on a more advanced level in every field of study.

OTHER SELECTED PROJECTS

- Unsupervised Object Detection Using Structured Latent Models
- Introducing a Novel Method for Deep Feature Representation Learning
- A Generalized Method for Fake News Classification using deep Bi-lstms
- Simulating Crowd Behavior using Deep Generative Models without Supervision
- Classifying Motor Movements from EEG Data Using a Spiking Neural Network

TEACHING EXPERIENCE

Rutgers University *2017-2018*
Discrete Structures, Computer Programming: Contributed to curriculum design, actively designed course projects and assignments, conducted recitations and taught the class:

Sharif University of Technology *2014-2016*
Artificial Intelligence, Digital Electronics, Computer Architecture

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Java, MATLAB, Prolog, Verilog.

Deep Learning Tools : Tensorflow, Pytorch, Scikit Learn, Gensim

Tools: ModelSim, Altera Quartus, Packet Tracer, Wireshark, HSPICE, PSPICE, Codevision AVR, EEG-Sampler

RESEARCH INTERESTS

Deep Learning

Computer Vision

Variational Inference

Natural Language Processing

Feature Representation Learning