

SEPEHR JANGHORBANI

sepehr.janghorbani@rutgers.edu
9433 BPO Way ◊ Piscataway, New Jersey, 08854
janghorbani.net

EDUCATION

Rutgers University *Jan. 2017 - Present*
PhD Candidate **GPA: 4.0/4.0**
Department of Computer Science

Sharif University of Technology *Sep. 2011 - Jul. 2016*
Bachelor of Science **GPA: 17.16/20.0**
Department of Computer Engineering
Relevant Coursework: **GPA: 18.2/20.0**
Artificial Intelligence, Numerical Analysis, Computer Simulation, Data Structures and Algorithms, Multimedia Systems, Probability and Statistics, Math II.

Shahid Ejei High School *Sep. 2007 - Jul. 2011*
High School Diploma in Mathematics and Physics **GPA: 19.55/20**
Affiliated with the **National Organization for Development of Exceptional Talents (NODET)**

RESEARCH EXPERIENCE

Rutgers University Machine Learning and NLP Lab *May.2017- Present*
Working on designing **Deep Learning** models for problems in **Natural Language Processing and Generation** as well as **Knowledge Representation**.

- Working on a novel method for **feature representation learning**
- designed a deep Bi-LSTM based architecture designed for fake news classification

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

Riz Arayeh Afzar Sharif *2016*
Investigated the performance of the proposed machine learning model on real genetic datasets.

PUBLICATIONS

Statistical Association Mapping of Population-Structured Genetic Data
IEEE/ACM Transactions on Computational Biology and Bioinformatics
PP(99):1-1 DOI10.1109/TCBB.2017.2786239

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 (Konkour) 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.

SELECTED PROJECTS

- Introducing a Novel Method for Deep Feature Representation Learning
- A Novel Method for Fake News Classification
- Understanding Crowd Behavior using Unsupervised Deep Neural Networks
- 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

Pattern Recognition & Machine Learning

Natural Language Processing

Computer Vision

Feature Representation Learning