

AMIRHOSEIN EBRAHIMI

Tehran , Iran

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🌐 [Linkdin](#)

🐙 [Github](#)

EDUCATION

B.Sc. of Computer Engineering

2017 – 2022

Shahid Beheshti University

Tehran, Iran

- **Supervisor:** Dr. Dara Rahmati
- **Thesis:** Acceleration of biologically inspired neural network. Grade (A+)
- **GPA:** 3.04/4 (15.53/20) - (Last two years of post-secondary, 65 credits): 3.63/4 (17.25/20)

RESEARCH INTERESTS

- Machine Learning, Deep Learning
- Computational biology
- Bioinformatics
- Computer Vision

PUBLICATIONS

- G. Wu, A. Zaker, **A.H Ebrahimi**, S. Tripathi, A. Mer - 2024 - Bioinformatics Advances - Text-Mining Based Feature Selection for Anticancer Drug Response Prediction - [Accepted](#)
- **Chapter of Book** - *First Course In Machine Learning: Dimension Reduction & Feature Selection* - Chapters: 1 - Elsevier, 2023 - [Accept](#) in publishing process
- **A.H Ebrahimi**, H. Vafaei, M. Asghari, D. Rahmati - 2023 - Neurocomputing - *HA-BSN: Hardware acceleration of bio-SFA and bio-NICA, biological neural networks, on FPGA with HLS* - **under review** - [preprint](#)
- **A.H Ebrahimi**, H. Vafaei, D. Rahmati - 2022 - National Informatics Conference of Iran (NIC) - *Estimating stochastic model's parameters using residual neural networks* - [Accepted-p128](#)

WORK & RESEARCH EXPERIENCE

Mer Lab | Research Assistant

2023 – present

- I contributed to groundbreaking research at Mer Lab, a leading computational biology and machine learning group affiliated with the University of Ottawa.

IPM | Research Assistant

2021 – present

- As an undergraduate, I joined this research institution willingly to expand my expertise of machine learning and deep learning. Later, I completed my internship there and remained as an AI researcher, collaborating with other AI researchers on various projects.

HUMA | Back-end developer

2023 – present

- I'm a Back-End Developer and Solution Specialist at Huma, contributing to innovative healthcare applications for remote patient monitoring, improving outcomes and accelerating research.

CMP Lab | Developer

2021 – 2023

- I worked as a programmer at CMP Lab, Shahid Beheshti University - Institute for Cognitive and Brain Sciences (ICBS), developing psychological experiments.

COURSES & CERTIFICATES

Coursera

- Structuring Machine Learning Projects
- Hyper-parameter Tuning, Regularization and Optimization
- Neural Networks and Deep Learning
- Basic Generative Adversarial Networks - Build Better Generative Adversarial Networks

IPM - CMP Lab

- Fifth IPM Advanced School on Computing and Artificial Intelligence (ASOC 2021)
- 2nd Six-day School of mathematical and computational psychology (2022)

TEACHING EXPERIENCE

Teaching Assistant - SBU

- *Computer Architecture* (Dr. Dara Rahmati) Fall 2019 - 2020
- *Microprocessors and Assembly* (Dr. Seyed-Hosein Attarzadeh-Niaki) Fall 2020
- *Microprocessors and Assembly* (Dr. Dara Rahmati) Spring 2021

Course Instructor at Onacademy

2022 - Now

- Python and R
- Basic Machine Learning
- Advanced Machine Learning
- Data Analytics for ML
- Neural Networks
- Computer Vision

TECHNICAL SKILLS

Programming Languages

- **Python:** [Keras, Tensorflow, Pytorch, Scikit-learn, Scipy, PyG, FastAI]
- **C/C++:** [Armadillo, OpenMP]
- Java, Golang, Matlab, R

Others

- FPGA : Xilinx ZedBoard, DE0-Nano-SoC, Z-turn
- Arduino
- Raspberry pi3/4

LANGUAGE

- **English:** Fluent (**TOEFL:** 102 (R=27, L=25, S=23, W=27))

REFERENCES

Dr. Arvind Mer

- Assistant Professor - Department of Biochemistry, Microbiology & Immunology Faculty of Medicine - Email: amer@uottawa.ca

Dr. Dara Rahmati

- Assistant Professor - Faculty of Computer Engineering and Science Shahid Beheshti University - Institute for Research in Fundamental Science IPM - Email: d.rahmati@sbu.ac.ir

Dr. Kamyar Givaki

- Research Associate, HPC Center, Institute for Research in Fundamental Science IPM - Email: givakik@ipm.ir