Seyed Roozbeh Razavi Rohani

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EDUCATION

- **M.Sc. in Computer Engineering-Artificial Intelligence and Robotics** Tehran, Iran
  Sharif University of Technology *Sept. 2019 - Jan. 2022*

  GPA: 18.86/20 (4/4)

  Thesis Title: Brian-inspired Meta Reinforcement Learning Using Brain-inspired Networks

  Supervisor: Prof. Mahdiyeh Soleymani Baghshah

- **B.Sc. in Computer Engineering-Software Engineering** Shiraz, Iran
  Shiraz University *Sept. 2014 - May 2019*

  GPA: 16.90/20 (3.33/4)

  The Last 60th Credits GPA: 18.78/20 (3.95/4)

  Thesis Title: Big Data Approach to Extract High-Level Information from Shiraz University Database (20/20)

  Advisor: Prof. Hooman Tahayori

RESEARCH INTEREST

- Deep Learning

- Reinforcement Learning

- Meta & Continual Learning

- Neuro-inspired AI & Computational Neuroscience

- Robotics & Optimal Control Theory

- Multi-agent systems & Algorithmic Game Theory

PUBLICATIONS

1. Seyed Roozbeh Razavi Rohani, Saeed Hedayatian, and Mahdiyeh Soleymani Baghshah. BIMRL: Brain Inspired Meta Reinforcement Learning. In *2022 IEEE/RSJ international conference on intelligent robots and systems (IROS)*, Kyoto, Japan, October 2022. IEEE

AWARDS & HONORS

- Ranked within top the 20% highest GPA among the graduating class in M.Sc. computer engineering program at Sharif University of Technology

- Selected as a qualified person at the first stage of Iranian National Olympiad in Informatics (university students competition)

- Ranked 3th among more than 20,000 participants in annual Iranian University Entrance Exam for masters degree in artificial intelligence and robotics

- Offered Straight Admission in Artificial Intelligence and Robotics M.Sc program at Shiraz University (declined)

- Ranked within top the 15% highest GPA among the graduating class in B.Sc. computer engineering program at Shiraz University

- Ranked within the top 1% among more than 300,000 participants in annual Iranian University Entrance Exam

TEACHING EXPERIENCES

Teacher Assistant (TA) for 'Advance Machine Learning' Jan. 2022- July 2022
Sharif University of Technology, Tehran, Iran
Presented by: Prof. Mahdiyeh Soleymani Baghshah

Teacher Assistant (TA) for 'Deep Learning' Sep. 2021 - Dec. 2021
Sharif University of Technology, Tehran, Iran
Presented by: Prof. Hamid Beigy

Teacher Assistant (TA) for 'Modern Information Retrieval' Jan. 2021 - July 2021
Sharif University of Technology, Tehran, Iran
Presented by: Prof. Mahdiyeh Soleymani Baghshah

Teacher Assistant (TA) for 'Artificial Intelligence' Jan. 2020 - July 2020
Shiraz University, Shiraz, Iran
Presented by: Prof. Zohre Azimifar

Teacher Assistant (TA) for 'Linear Control Theory' Jan. 2020 - July 2020
Shiraz University, Shiraz, Iran
Presented by: Prof. Mansoor Zolghadri Jahromi

Teacher Assistant (TA) for 'Microprocessor' Sep. 2018 - Jan. 2019
Shiraz University, Shiraz, Iran
Presented by: Prof. Mohsen Raji

RESEARCH WORKING EXPERIENCES

Research Assistant in Machine Leaning Lab (MLL) Dec. 2019 - Jan. 2022
Sharif University of Technology, Tehran, Iran
Supervised by Prof. Mahdieh Soleymani

Senior Developer   April 2017 - August 2017
ICT Center of Shiraz University
Extract high-level information using Apache Spark & Spring Boot

SKILLS

- **Programming Languages:** Python, Java, C, C++, C#, MATLAB, PHP, JavaScript, Assembly (x86), LaTeX

- **Deep Learning Frameworks:** PyTorch, Keras, TensorFlow, Caffe, MATLAB Deep Learning toolbox

- **Python Package & Library:** NumPy, Pandas, Scikit-learn , Matplotlib

- **Other Frameworks & tools:** Apache Spark, Spark Java, Spring Boot, Django, Laravel, Angular, Neo4j, MongoDB

- **Software:** SPSS ,Proteus ,CodeVisionAVR, Microsoft Office

- **Operating Systems:** Windows, Linux (Ubuntu)

SELECTED COURSES

Graduate

- *Deep Learning, Prof. Soleymani, 19.1/20*
- *Stochastic Processes, Prof. Rabee, 17.2/20*
- *Neuroscience: Learning and Memory, Prof. Karbalaee, 20/20*

Undergraduate

- *Artificial Intelligence, Prof. Azimifar, 19.1/20*
- *Operational Research, Prof. Ziarati, 18/20*
- *Linear Control Theory, Prof. Zolghadr, 18.5/20*
- *Signals and Systems, Prof. Bostani, 20/20*

SELECTED PROJECTS

- Implementation of Hopfield Network using spiking neural networks to retrieve and denoise patterns, as the final project for Neuroscience: Learning and Memory course, fall 2020

- Implementation of image captioning and caption comprehension through LSTM and Faster R-CNN networks, benchmarked on MS COCO dataset, as the final project for Deep Learning course, Spring 2020

- Implementation of Speech Recognition and character-based LVCSR with RNN Networks according to "End-to-end Attention-based Large Vocabulary Speech Recognition," paper, as the final project for Speech Processing course, Spring 2020

- Implementation of epileptic/normal classifier based on EEG signal, using wavelet coefficients as features and RBF networks as the learnable classifier, the final project for Digital Signal Processing course, fall 2019

LANGUAGES

- **Persian:** Native

- **English:** Fluent

    - **TOEFL iBT:** Will be taken at October 9th, 2022

ONLINE COURSES, CERTIFICATES & MEMBERSHIPS

- Game Theory, Prof. O. Jackson, Coursera   2021
- Robotics: Aerial Robotics, Prof. Kumar, Coursera   2021
- Convex Optimization, Prof. Boyd, edX   2019
- Neuronal Dynamics, Prof. Gerstner, edX   2019
- Computational Neuroscience: Neuronal Dynamics of Cognition, Prof. Gerstner, edX   2019
- Mathematics for Machine Learning: Linear Algebra, Prof. Dye, Coursera   2018
- Member of IEEE Robotics and Automation Society   2022-present
- Member of National Elite Foundation   2019-present

REFERENCES

1. Prof. Mahdiyeh Soleymani Baghshah: soleymani@sharif.edu

2. Prof. Reza Boostani: boostani@shirazu.ac.ir

3. Prof. Koorush Ziarati: ziarati@shirazu.ac.ir