Sara Rostami

M.Sc. Student of Artificial Intelligence and Robotics
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% Website
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EDUCATION

•**Master of Science in Artificial Intelligence and Robotics** *2021-24*
University of Tehran, Tehran, Iran GPA: 19.12/20

•**Bachelor of Science in Computer Engineering** *2016-21*
Babol Noshirvani University of Technology, Babol, Iran GPA: 17.38/20

•**High School Diploma in Mathematics and Physics** *2012-16*
National Organization for Development of Exceptional Talents (Sampad), Babol, Iran GPA: 19.64/20

EXPERIENCE

•**Research Assistance** *Aug 2022 - Present*
Convergent Technologies Research Center, University of Tehran, Tehran, Iran Local
  − Part of the *Neural Adaptation* Project

•**Teaching Assistant, Computational Neuroscience Summer School** *July 2023 (3 weeks)*
Neuromatch Acadamay Remote
  − Mentored and assisted students in the computational neuroscience course
  − Led interactive sessions and discussions to enhance understanding of course material
  − Collaborated with fellow TAs and instructors to ensure a valuable learning experience

•**Teaching Assistant for Master's Courses** *Jan 2023 - July 2023*
University of Tehran, Tehran, Iran Local
  − Statistical inference (Spring 2023)
  − Introduction to Cognitive Neuroscience (Spring 2023)

•**Research Intern** *Aug 2022 - Feb 2023*
Genzel lab, Donders institute for brain, cognition and behavior, Nijmegen, Netherlands Remote
  − Part of the *Systems Consolidation During Sleep* Project

SELECTED ACADEMIC PROJECTS

•**Role of Frontotemporal Circuits in the Representation of Complex Objects**
Master's Thesis, University of Tehran, Tehran, Iran Ongoing Project
  − Collecting 128-channel EEG Data from 15 subjects
  − Preprocessing EEG data with EEGLAB based on Makoto's pipeline
  − Applying Multivariate Pattern Analysis (MVPA) method

•**Investigating the Robustness and Interpretability of a Deep Learning Model** *link, link*
Trustworthy AI course, University of Tehran, Tehran, Iran Spring 2023
  − Explored model robustness by applying adversary attacks using the Fast Gradient Method
  − Employed Deep SHAP and LIME techniques to investigate model interpretability

•**Comparative Study of Image Generation with Stabilized DCGAN and ACGAN** *link*
Deep Learning course, University of Tehran, Tehran, Iran Fall 2022
  − Implemented DCGAN and ACGAN for image generation based on referenced papers
  − Applied Stabilizing techniques

•**Comparative Study of Standard ML Algorithms on Music Genre Classification** *link*
Machine Learning course, University of Tehran, Tehran, Iran Fall 2021
  − Collected music pieces from 5 different Irainian Instruments
  − Applied dimensionality reduction techniques
  − Applied ML clustering & classification algorithms

•**EEG-based Emotion Recognition using Deep Reinforcement Learning** *link*
Bachelor's Project, Babol Noshirvani University of Technology, Babol, Iran Summer 2021
  − Applied deep reinforcement learning for recognizing emotions based on EEG signals

Honors and Awards

- **Top Ranked among Master's Students** *2023*

  Ranked 3rd in Artificial Intelligence and Robotics Major, University of Tehran, Tehran, Iran

- **Awarded a Prestigious Scholarship from the University of Tehran** *2021*

  Chosen among 24 from 14,000+ participants In the Master's Entrance Exam

- **Top Ranked among Bachelor's Students** *2020*

  Ranked 3rd at Computer Engineering Dept., Babol Noshirvani University of Technology, Babol, Iran

Licenses & Certifications

- **Computational Neuroscience Summer School TA**

  Neuromatch Academy Summer 2023

  – Mentored the students during the Tutorials and Project

- **Computational Neuroscience Summer School Student**

  Neuromatch Academy Summer 2022

  – Completed the Tutorials and Project

Selected Courses

Graduate	Undergraduate
Trustworthy AI: 19.8/20	Signals & Systems: 19.5/20
Neural Networks & Deep Learning: 19.94/20	Graph Theory: 20/20
Machine Learning: 19/20	Introduction to Programming Contests: 20/20
Statistical Inference: 18.7/20	Operating Systems: 20/20
Data Analysis: 20/20	Fundamentals of Compiler Design: 19.1/20
Introduction to Cognitive Neuroscience: 18.45/20	Language Theory & Automata: 18/20

Technical Skills and Interests

Programming Languages:: Python (advanced), MATLAB (proficient), R(proficient), SQL(proficient), Java(familliar)
Development Tools and Frameworks:: Git, EEGLAB, Psychopy, , PyTorch, TensorFlow, Scikitlearn, Matplotlib, etc.
Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability, Thoroughness

Languages

Farsi (Native)
English (Fluent)

– *English proficiency demonstrated through experience as a Teaching Assistant in an* international course
– *Prepared to take the TOEFL exam within two weeks' notice upon request*

References

Available upon request.