

Sara Rostami

M.Sc. Student of Artificial Intelligence and Robotics
University of Tehran, Tehran, Iran

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Website

GitHub Profile

LinkedIn Profile

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** Ongoing Project
Master's Thesis, University of Tehran, Tehran, Iran
 - 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 Iranian 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** Summer 2023
Neuromatch Academy
 - Mentored the students during the Tutorials and Project
- **Computational Neuroscience Summer School Student** Summer 2022
Neuromatch Academy
 - 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

Mohammadreza Abolghasemi Dehaqani	<i>Assitant Professor, University of Tehran Electrical and Computer Engineering Department dehaqani@ut.ac.ir</i>
Abdol-hosseini Vahabie	<i>Assitant Professor, University of Tehran Electrical and Computer Engineering Department h.vahabie@ut.ac.ir</i>
Hesam Omranpour	<i>Assitant Professor, Babol Noshirvani University of Technology Electrical and Computer Engineering Department h.omranpour@nit.ac.ir</i>
Lisa Genzel	<i>Associate professor, Radboud University Donders Centre for Neuroscience-Neurobiology lisa.genzel@donders.ru.nl</i>