

# 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

## EXPERIENCE

- **Research Assistant** 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 3<sup>rd</sup> 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 3<sup>rd</sup> at Computer Engineering Dept., Babol Noshirvani University of Technology, Babol, Iran*

## LICENSES & CERTIFICATIONS

- **Computational Neuroscience Summer School Teaching Assistant** 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(familiar)  
**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](#)
- Scheduled to take the TOEFL exam on October 14<sup>th</sup>

## REFERENCES

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

Please let me know in advance if you plan to contact the references I've provided.