

# Leili Vares

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## *Personal Information*

**Marital Status:** Single

**Nationality:** Iranian

**Place of Birth:** Tehran, Iran

**Date of Birth:** August 25, 2001

**Cell Phone:** (+98)9381460501

**Email:** Leilivaress@gmail.com , Leilivaress@aut.ac.ir

**Ph.D. Student in Biomedical Engineering**

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## *Education*

Ph.D. in Biomedical Engineering (Bioelectric), Amirkabir University of Technology, Tehran, Iran (2026-Present)

M.Sc. in Biomedical Engineering (Bioelectric), Shahid Beheshti University, Tehran, Iran (2023-2025)

B.Sc. in Biomedical Engineering (Bioelectric), Shahid Beheshti University, Tehran, Iran (2019-2023)

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## *Experience*

Researcher, Center for Mathematic and Computational Biology, Amirkabir University of Technology, Tehran, Iran (2025 - present)

Technical Support, E-learning center, Shahid Beheshti University, Tehran, Iran (2023-2024)

Educational Content Developer, E-learning center, Shahid Beheshti University, Tehran, Iran (2023-2024)

Scientific Content Developer, Connectome academy, Tehran, Iran (2022-2026)

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## *Projects*

**M.Sc. Thesis:** Automated and Comprehensive Preprocessing Pipeline for Various Electroencephalography (EEG) Data Types (2025)

Supervisors: Dr. Hasti Shabani, Dr. Narjes Soltani Dehaghani

**B.Sc. Thesis:** The Role of Biomedical Sensors in Wound Healing (2023)

Supervisor: Dr. Mojtaba Koosha

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### *Language skills*

**Persian:** native

**English:**

- Reading, Writing, Listening (Professional Working Proficiency)
- Speaking (Intermediate)

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### *Computer skills*

MATLAB, Python, EEGLAB, ICDL

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### *Honors & Awards*

Ranked 1st among B.Sc. students in Biomedical Engineering (Bioelectric), Shahid Beheshti University

Admitted to the M.Sc. program in Biomedical Engineering (Bioelectric) through the Exceptional Talent Admission Program

Ranked 1st among M.Sc. students in Biomedical Engineering (Bioelectric), Shahid Beheshti University

Third Place Award, Poster Presentation, Institute of Medical Science and Technology (IMSAT), Shahid Beheshti University, 2025

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### *Workshops & Certificates*

- **Spring School of Brain Science** — National Brain Mapping Laboratory (NBML), Tehran, Iran
- **fMRI Image Processing Using SPM and CONN** — Connectome academy, Tehran, Iran
- **Task Design Using PsychoPy** — National Brain Mapping Laboratory (NBML), Tehran, Iran
- **Artificial Intelligence for Neuroscience Data Processing Using Python** — National Brain Mapping Laboratory (NBML), Tehran, Iran
- **EEG and ERP Signal Processing Using EEGLAB** — Connectome academy, Tehran, Iran
- **Implementation of Fundamental Machine Learning Algorithms for EEG-Based BCI Applications Using MATLAB** — Connectome academy, Tehran, Iran
- **Brain Signal Decoding Using Fundamental Machine Learning Algorithms** — Interdisciplinary Schools, Tehran, Iran
- **Getting Started with MEG: From Brain Signals to Data Processing** — National Brain Mapping Laboratory (NBML), Tehran, Iran

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## *Research Interests*

- Nonlinear Dynamics
- Chaos Theory
- Complex Networks
- Synchronization
- Reservoir Computing
- Biomedical Signal Processing
- Computational Neuroscience
- Artificial Intelligence and Machine Learning in Medicine