



Mostafa Izadi

Interested in Neuroscience

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Tehran, Iran

LANGUAGE

English

Normal Working Proficiency

INTERESTS

Neuroscience

Neural engineering

Electromagnetics

Physics

Mathematics

Algorithmic Programming

EDUCATION

Direct Ph.D. in Neuroscience and Neuroengineering

Sharif University of Technology

09/2022 to Present

Courses

- Foundation of Neuroscience
 - *Project:* Classification of a Bistable Image Perception Using EEG
- Learning in Brain and Machine I
- Visual Neuroscience
 - *Project:* Proposing a Reward-Based SNN for Visual Object Recognition Using Top-Down and Bottom-Up Mechanisms
- Advanced Topics in Neuroscience
- Advanced Biosensors
- Medical Images Analysis and Preprocessing
- Neurobiology
- Neuroanatomy
- Neuroeconomics
 - *Essay:* On the Characterization of Decision-Making Deficits Using Neuroeconomical Findings
- EEG
- Experiment Design & Analysis
- Neural Modeling
 - *Project:* Simulation of Dynamics of Neural Representation and Transformation

B.Sc. in Electrical Engineering

University of Tehran

09/2017 to 09/2022

Courses

- Digital Signal Processing (DSP)
- Communications II
- Communication Circuits
- Microwave I
- Computer Networks
- Electronics III
- Wireless Communications
- Advanced Programming
- Antenna I
- Fields and Waves

Thesis

Light Gaussian Beam Reflection from Concave Cylindrical Surfaces

Supervised by Dr. Mahmoud Shahabadi

Minor in Computer Engineering

University of Tehran

09/2019 to 02/2022

Courses

- Artificial Intelligence
- Operating System
- Computer Networks Security
- Discrete Mathematics
- Data Structures and Algorithms

High School Graduation Diploma

Allameh Helli 5

09/2013 to 09/2017

Tehran, Iran

RESEARCH EXPERIENCES

Graduate

The Role of VLPFC and Basal Ganglia in Flexible and Stable Mechanisms of Value Memory (12/2023 – Present)

Supervised by Dr. Ali Ghazizadeh

Institute for Research in Fundamental Sciences

Research for Speech Decoding using EEG (09/2023 – 12/2023)

Supervised by Dr. Reza Ebrahimpour

Sharif University of Technology

Simulation of Electromagnetic Stimulation of Anterior Insula and Anterior Cingulate Cortex (01/2023 – 11/2023)

Supervised by Dr. Reza Kazemi

National Elites Foundation (Shahid Ahmadi Roshan's Plan)

Undergraduate

Laboratory of Photonics (08/2021 – 09/2021)

Supervised by Dr. Mahmoud Shahabadi

University of Tehran

Laboratory of Radio Transmitters (08/2020 – 09/2020)

Islamic Republic of Iran Broadcasting

CERTIFICATES AND WORKSHOPS

Graduate

Sixth Sharif Neuroscience Symposium (03/2024)

Sharif University of Technology

Computational Neuroscience (07/2023)

Neuromatch Academy

Fifth Sharif Neuroscience Symposium (03/2023)

Sharif University of Technology

Functional MRI Principles and Practice (02/2023)

Institute for Research in Fundamental Sciences

Brain Mapping Fall School (11/2022 – 12/2022)

National Brain Mapping Lab

Undergraduate

Basic Android Programming (07/2019 – 09/2019)

Academic Center for Education, Culture, and Research

Applied Website Design by WordPress (08/2018 – 10/2018)

Academic Center for Education, Culture, and Research

Web Design level 2 (JAVASCRIPT - JQUERY) (09/2017 – 10/2017)

Academic Center for Education, Culture, and Research

Web Design level 1 (HTML - CSS) (08/2017 – 09/2017)

Academic Center for Education, Culture, and Research

English Language for Adults (12/2017 – 12/2020)

Academic Center for Education, Culture, and Research

Basic Programming by Python (07/2019 – 10/2019)

Academic Center for Education, Culture, and Research

SOFTWARE, PACKAGES AND PROGRAMMING EXPERIENCES

Graduate

CONN	Analysis of Functional Connectivity of fMRI Data
EEGLAB and BRAINSTORM	Analysis of EEG Data
SIMNIBS	Simulation of TMS and tDCS Stimulation
PSYCHTOOLBOX	Psychophysics
AFNI and FSL	Analysis of Functional Activation of fMRI Data
R	Statistical Analysis of Data
C#	Implementation of Spiking Neural Networks

Undergraduate

ALTIUM DESIGNER	PCB Design
SPICE and MULTISIM	Analysis of Electrical Circuits
PROTEUS and CODE VISION	Analysis of Microcontroller Based Circuits
WIRESHARK	Monitoring Network Traffic
VERILOG	Hardware Description Language (HDL)
AUTOCAD and SOLIDWORKS	Design and Development of Mechanical Products and Drawing
HFSS	Analysis and Design of Electromagnetic Structures
ADS	Analysis and Design of Communication Circuits

AWARDS

Scientific Olympiads for University Students - Ranked 2nd in the 27th electrical engineering Olympiad – 2022

National Organization for Educational Testing & Ministry of Science, Research and Technology

FOE Award - Ranked 1st among over 100 B.Sc. students in the first year – 2018

University of Tehran