AMIR HOSEIN ASAADI

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Education

Shahid Rajaee Teacher Training University　　　　　　　　　　Tehran, Iran
MSc in Artificial intelligence　　　　　　　　　　　　　　　　　2019 – 2022
- Supervisor: Dr. Reza Ebrahimpour

Sistan and Baluchestan University　　　　　　　　　　　　Zahedan, Iran
B.Sc. in Software engineering　　　　　　　　　　　　　　　2013 – 2018

Research Interests

- Speech and language perception
- Neural Engineering
- MEG, EEG, fMRI
- Attention
- Multisensory Integration
- Computational Neuroscience

Publication

- Asaadi, A., Amiri, S., Bosaghzadeh, A., Ebrahimpour, R.(2024). Effects and prediction of cognitive load on encoding model of brain response to auditory and linguistic stimuli in educational multimedia. Published in scientific reports.

Projects

Neural Response to Daylight in Virtual Offices　　　　　　　　2025 – Now
- EEG data analysis
- Dr. Reza Ebrahimpour and Dr. Pegah Payedar-Ardakani

Cognitive measures while working with educational software　　2022 – 2023
- EEG data collection, leading students in EEG analysis
- Dr. Reza Ebrahimpour and Dr. Ehsan Pazouki

Temporal response function of Semantic dissimilarity　　　　　2022 – 2023
- Modeling EEG, semantic dissimilarity, and lexical surprise data
- Leading one master student
- Dr. Reza Ebrahimpour, Dr. S. Hamid Amiri, and Dr. Alireza Bosaghzadeh

Comparing cortical brain activity from real and imaginary movements of hand　Summer 2022
- Presented in neuromatch academy
- Leading two projects on neuromatch academy
- Miller dataset, ECOG, MNE python
- Dr. Vladimir Litvak, Dr. Samuel Zibman, and Mohammad Rabiei

Predicting activities of V4 area from natural images　　　　Summer 2021
- Presented in neuromatch academy
- Kay dataset, fMRI, Scikit learn
- Dr. Ehsan Rezayat, and Raul Hernandez

Persian handwritten digits recognition　　　　　　　　　　　Dec 2019
- Project of Machine learning course
- Machine learning, and deep learning tools
- Dr. Reza Ebrahimpour

Making educational multimedia and a handbook for python　　　　2018
- Bachelor final project
- Creating educational videos and booklet about python
- Dr. Samira Noferesti

Online library management system　　　　　　　　　　　　　　2018
- Final project of online course
- Django, python

Work experience

- Research assistant
  - 2022–peresent, Sharif Brain Center
- Teaching assistant
  - Fall 2023 - Advanced topics in nano, Sharif university
  - Summer 2022 - Computational Neuroscience in Neuromatch Academy
  - Fall 2020 - Machine learning in Shahid Rajaee Teacher Training University
  - 2015 – 2016 - Advanced Computer Programming, Two times in University of Sistan and Baluchestan
  - 2014 – 2017 - Computer Fundamentals and Programming, Three times in University of Sistan and Baluchestan

Skills

EEG: EEGLAB, mTRF Toolbox, EEG data collection, Psychtoolbox
MATLAB/Python: Modeling neural data, Neural signal processing
R: Data visualization with ggplot2
LaTeX, Git
Soft skill: Learning, and Self-discipline
Language: English – FULL professional proficiency, French - basic, Persian – Native

Attended Workshops

Cognition and Natural Sensory Processing Initiative (CNSP)	2021 – 2023
Symposium for Cognitive Auditory Neuroscience (SCAN)	2021
CuttingEEG	2021
EEGLAB workshop by NBML - instructor: Ali Motie Nasrabadi	2020
Cognitive Neuroscience Competition Sadra	2020
9th Iranian Brain Mapping Congress - IHBM	2020

Hobbies And Volunteering

- Showing sky with telescope to people
- Hiking, cycling, and traveling
- National deputy of Servas Iran