

AMIR HOSEIN ASAADI

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Education

Shahid Rajaee Teacher Training University

MSc in Artificial intelligence

- Supervisor: Dr. Reza Ebrahimpour

Tehran, Iran

2019 – 2022

Sistan and Baluchestan University

B.Sc. in Software engineering

Zahedan, Iran

2013 – 2018

Research Interests

- Speech and language perception
- Neural Engineering
- MEG, EEG, fMRI
- Attention
- Multisensory Integration
- Perceptual Decision-Making
- 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.
- Mousavi Harris, A., Asaadi, A., Payedar-Ardakani, P., Gorji-Mahlabani, Y., Ebrahimpour, R. (2023). Application of machine learning techniques to classify EEG signals in subjective pleasure ratings during varying daylight illuminance conditions within VR. Submitted to Biomedical signal processing and control.

Projects

How decision variables change during training phase of RDM?

Mar 2023 – Dec 2023

- Modeling data
- Behavioral data, Perceptual decision making, Fitting Drift Diffusion Model
- with Dr. Reza Ebrahimpour, and Jamal Esmaily

Effect of Social cue in sequential decision-making

Mar 2023 – Present

- Learning about eye data analysis
- Psychtoolbox, Eye tracking
- with Dr. Reza Ebrahimpour, and Fatemeh Majd

Cognitive measures while working with educational software

2022 – 2023

- EEG data collection, leading students in EEG analysis
- with Dr. Reza Ebrahimpour and Dr. Ehsan Pazouki

Temporal response function of Semantic dissimilarity

2022 – Present

- Modeling data
- Leading one master student
- with 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
- Miler dataset, ECOG, MNE python
- with 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
- with Dr. Ehsan Rezayat, and Raul Hernandez

Persian handwritten digits recognition

Dec 2019

- Project of Machine learning course
- Machine learning, and deep learning tools
- with Dr. Reza Ebrahimpour

Making educational multimedia and a handbook for python

2018

- Bachelor final project
- Making educational video, Latex
- with Dr. Reza Ebrahimpour, Dr. S. Hamid Amiri, and Dr. Alireza Bosaghzadeh

Online library management system

2018

- Final project of online course
- Django, python

Work experience

- Research assistant
 - 2022–present, [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 Rajaei 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, EEG data collection, Psychtoolbox

MATLAB/Python: Modeling neural data, Neural signal processing

R: Data visualization with ggplot2

TeX, 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