

AMIR HOSEIN ASAADI

✉ asaadi.amir@mail.com | [in asadiamir](https://www.linkedin.com/in/asadiamir) | [github amirasaadi](https://github.com/amirasaadi) | ☎ +98 939 647 7007

Education

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| Shahid Rajaei Teacher Training University
<i>MSc in Artificial intelligence</i> <ul style="list-style-type: none">• Supervisor: Dr. Reza Ebrahimpour | Tehran, Iran
2019 – 2022 |
| Sistan and Baluchestan University
<i>B.Sc. in Software engineering</i> | 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. (2023). Effects and prediction of cognitive load on encoding model of brain response to auditory and linguistic stimuli in educational multimedia. Under second review 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

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| How decision variables change during training phase of RDM? <ul style="list-style-type: none">• Modeling data• Behavioral data, Perceptual decision making, Fitting Drift Diffusion Model• with Dr. Reza Ebrahimpour, and Jamal Esmaily | Mar 2023 – Dec 2023 |
| Effect of Social cue in sequential decision-making <ul style="list-style-type: none">• Learning about eye data analysis• Psychtoolbox, Eye tracking• with Dr. Reza Ebrahimpour, and Fatemeh Majd | Mar 2023 – Present |
| Cognitive measures while working with educational software <ul style="list-style-type: none">• EEG data collection, leading students in EEG analysis• with Dr. Reza Ebrahimpour and Dr. Ehsan Pazouki | 2022 – 2023 |
| Temporal response function of Semantic dissimilarity <ul style="list-style-type: none">• Modeling data• Leading one master student• with Dr. Reza Ebrahimpour, Dr. S. Hamid Amiri, and Dr. Alireza Bosaghzadeh | 2022 – Present |
| Comparing cortical brain activity from real and imaginary movements of hand <ul style="list-style-type: none">• 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 | Summer 2022 |
| 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