

# 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

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## Research Interests

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

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## 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.

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## Projects

### How decision variables change during training phase of RDM?

Mar 2023 – Present

- 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 – Present

- Writing manuscript
- 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

<b>Predicting activities of V4 area from natural images</b>	Summer 2021
<ul style="list-style-type: none"> <li>• Presented in neuromatch academy</li> <li>• Kay dataset, fMRI, Scikit learn</li> <li>• with Dr. Ehsan Rezayat, and Raul Hernandez</li> </ul>	
<b>Persian handwritten digits recognition</b>	Dec 2019
<ul style="list-style-type: none"> <li>• Project of Machine learning course</li> <li>• Machine learning, and deep learning tools</li> <li>• with Dr. Reza Ebrahimpour</li> </ul>	
<b>Making educational multimedia and a handbook for python</b>	2018
<ul style="list-style-type: none"> <li>• Bachelor final project</li> <li>• Making educational video, Latex</li> <li>• with Dr. Reza Ebrahimpour, Dr. S. Hamid Amiri, and Dr. Alireza Bosaghzadeh</li> </ul>	
<b>Online library management system</b>	2018
<ul style="list-style-type: none"> <li>• Final project of online course</li> <li>• Django, python</li> </ul>	

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## 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 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

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## Skills

**EEG:** EEGLAB, 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

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## Attended Workshops

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

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## Hobbies And Volunteering

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