

# 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

- Using machine learning methods to model neural data
- Trying to help people with brain disorders with computational neuroscience
- Neuro imaging methods such as EEG and fMRI

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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 review in scientific reports.

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## Projects

### **Analyzing emotion with EEG data in Virtual Reality environment**

May 2023 – Present

- Editing manuscript
- EEG, Machine learning
- with Dr. Reza Ebrahimpour, and pegah paydar ardakani

### **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

#### **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

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### Work experience

- Research assistant
  - 2022–present, [Sharif Brain Center](#)
- Teaching assistant
  - 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

**TeX, 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