

## Amir hosein Asaadi - CV

Phone: +989396477007

E-mail: [asaadi.amir@gmail.com](mailto:asaadi.amir@gmail.com)

Skype: live:.cid.4b0b33c6a5ef47a8

Website: [amirasaadi.github.io](https://amirasaadi.github.io)

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### RESEARCH INTEREST

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- Neural underpinnings of cognitive functions
- Using machine learning methods to model neural data
- Helping people with brain disorders using computational neuroscience

### EDUCATION

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2013 – 2018 MSc in AI at shahid Rajaei University(Tehran, Iran)

Supervisor: Dr. Reza Ebrahimpour

2019 – 2022 B.Sc. in Computer Engineering at Sistan and Baluchestan University(Zahedan, Iran)

### PUBLICATION

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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. *Submitted to Neuroimage*.

### WORK EXPERIENCES

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2022 Teaching assistant at "[NeuromatchAcademy, computational neuroscience](#)" (15 days)

2020 Teacher assistant in "Machine learning"

2015 – 2016 Teacher assistant in " Advanced Computer Programming" two times

2014 - 2017 Teacher assistant in "Computer Fundamentals and Programming" three times

### SKILLS

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- EEGLAB – preprocessing EEG signals
- EEG data collection
- Psychtoolbox
- MATLAB/Python – modeling neural data, Neural signal processing
- R - Data visualization with ggplot2
- LATEX, Git
- Learning
- Self-discipline

## LANGUAGE SKILLS

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- English – FULL professional proficiency
- Persian – Native
- French – Elementary

## PROJECTS

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- Social and sequential decision-making (Psychtoolbox, Eye tracking) ongoing project with Dr. Reza Ebrahimpour
- EEG data collection and analysis ongoing project with Dr. Reza Ebrahimpour and Dr. Ehsan Pazouki
- Leading two projects on NMA - Comparing cortical brain activity from real and imaginary movements of hand - Miler dataset – ECOG (MNE python)
- Predicting activities of V4 area from natural images - Kay dataset – fMRI (scikit learn)
- Persian handwritten digits recognition using machine learning and deep learning tools
- Bachelor final project: Making educational multimedia and a handbook for python in Persian (latex)
- Online library management system (Django, python)

## ATTENDED WORKSHOPS

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- [Cognition and Natural Sensory Processing Initiative \(CNSP\) 2022-2021](#)
- [Symposium for Cognitive Auditory Neuroscience \(SCAN\) 2021](#)
- [5th International Conference on cutting edge methods in clinical and cognitive neurophysiology research - CuttingEEG - 2021](#)
- Cognitive Neuroscience Competition Sadra 2020
- 9th Iranian Brain Mapping Congress - IHBM 2020

## HOBBIES AND VOLUNTEERING

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- Science communicator as amateur observational astronomer
- Hiking, cycling, and traveling
- National deputy of Servas Iran

## REFERENCES

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- Dr. Reza Ebrahimpur, Institute for Convergence Science and Technology (ICST), Sharif University of Technology, Tehran, Iran  
Email: [ebrahimpour@sharif.edu](mailto:ebrahimpour@sharif.edu)
- Dr. S. Hamid Amiri, Artificial Intelligence Group, Faculty of Computer Engineering, Shahid Rajaei Teacher Training University, Tehran, Iran  
Email: [s.hamidamiri@gmail.com](mailto:s.hamidamiri@gmail.com)
- Dr. Alireza Bosaghzadeh, Artificial Intelligence Group, Faculty of Computer Engineering, Shahid Rajaei Teacher Training University, Tehran, Iran  
Email: [a.bosaghzadeh@sru.ac.ir](mailto:a.bosaghzadeh@sru.ac.ir)