

Amir hosein Asaadi - CV

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RESEARCH INTEREST

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

EDUCATION

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

Supervisor: Dr. Reza Ebrahimpour

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

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.*

PROJECTS

- Analysing emotion with EEG data in Virtual Reality environment Editing manuscript, Dr. Reza Ebrahimpour, and pegah paydar ardakani
- How decision variables change during training phase of random dot motion task(RDM)? (Fitting Drift Diffusion Model) Modeling data, Dr. Reza Ebrahimpour, and Jamal Esmaily
- Effect of Social cue in sequential decision-making (Psychtoolbox, Eye tracking) Learning about eye data analysis, Dr. Reza Ebrahimpour, and Fatemeh Majd
- EEG data collection and analysis while working with educational software Writing manuscript, Dr. Reza Ebrahimpour and Dr. Ehsan Pazouki
- Leading one master student in Analysing continuous EEG ongoing project with Dr. Reza Ebrahimpour, Dr. S. Hamid Amiri, and Dr. Alireza Bosaghzadeh
- Leading two projects on NMA - Comparing cortical brain activity from real and imaginary movements of hand - Miler dataset – ECOG (MNE python), presented in NMA
- Predicting activities of V4 area from natural images - Kay dataset – fMRI (scikit learn), presented in NMA
- Persian handwritten digits recognition using machine learning and deep learning tools, Project of Machine learning course
- Bachelor final project: Making educational multimedia and a handbook for python in Persian (latex)
- Online library management system (Django, python)

WORK EXPERIENCES

- 2023 Research assistant in ebrahimpourlab.ir
- 2022 Teaching assistant at "[NeuromatchAcademy, computational neuroscience](http://NeuromatchAcademy.computationalneuroscience)" (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

- 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

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

ATTENDED WORKSHOPS

- [Cognition and Natural Sensory Processing Initiative \(CNSP\) 2022-2021](#)-attending at 2023
- [Symposium for Cognitive Auditory Neuroscience \(SCAN\) 2021](#)
- [5th International Conference on cutting edge methods in clinical and cognitive neurophysiology research - CuttingEEG - 2021](#)
- EEGLAB workshop - instructor: [Ali Motie Nasrabadi](#)
- 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

REFERENCES

- Prof. Reza Ebrahimpur, Institute for Convergence Science and Technology (ICST), Sharif University of Technology, Tehran, Iran
Email: rebrahimpour@gmail.com
- Dr. S. Hamid Amiri, Artificial Intelligence Group, Faculty of Computer Engineering, Shahid Rajaee Teacher Training University, Tehran, Iran

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- Dr. Alireza Bosaghzadeh, Artificial Intelligence Group, Faculty of Computer Engineering, Shahid Rajaee Teacher Training University, Tehran, Iran

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