

Fatemeh Asgharianasl

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Education

- 2016 - 2019 Master of Science in Cognitive Psychology, Cognitive Science, Azarbaijan Shahid Madani University, Tabriz, Iran
Thesis Topic: Effect of Repetitive Transcranial Magnetic Stimulation (rTMS) on depression severity, response inhibition, cognitive flexibility and visuo-spatial memory in patients with Depressive Disorder (20/20)
- 2012 - 2016 B.S. in Biology, Cellular and Molecular Science, Azarbaijan Shahid Madani University, Tabriz, Iran
- 2008 -2012 High School Diploma in Experimental Sciences, National Organization for Development of Exceptional Talents (Sampad), Iran

Publications

Journal Papers

- **Asgharian Asl, F.**, Vaghef, L.(2021). The effectiveness of high-frequency left DLPFC-rTMS on inhibitory control and cognitive flexibility in patients with major depressive disorder. **Journal of Psychiatric Research (under revision)**.
- Seifzadeh, S.,..., **Asgharian Asl, F.**(2021). The Physiologica Effect of the Single Session Repetitive Transcranial Magnetic Stimulation (rTMS) versus Autonomous Sensory Meridian Response (ASMR): Which one works better on anxiety? **Frontiers in Biomedical Technologies (under revision)**
- **Asgharian Asl, F.**, Vagef, L., Ghoreyshirad, F. (2021). Effects of High-Frequency Repetitive Transcranial Magnetic Stimulation on Visuo-Spatial Memory in Patients with Major Depressive Disorder (Persian). **Journal of Advances in Cognitive Sciences (under revision)**.

Congress Papers (Poster)

- **Asgharian Asl, F.**, Vagef, L., (2021). Comparison of the Effectiveness of Unilateral and Bilateral Dorsolateral Prefrontal Cortex repetitive Transcranial Magnetic Stimulation on Response Inhibition of Female Patients with Major Depressive Disorder. **The BRAIN Conference, London, England**

- **Asgharian Asl, F., Vagef, L., Ghabel Damirchi, B., (2020).** Comparison of the Effectiveness of Unilateral and Bilateral Dorsolateral Prefrontal Cortex Repetitive Transcranial Magnetic Stimulation on Cognitive Flexibility of Female Patients with Depression. **9th Basic And Clinical Neuroscience Congress, Tehran, Iran**
- Ghabel Damirchi, B., **Asgharian Asl, F.** (2020). The Effect of Neurofeedback Training on The Attention and Performance of Archery Skills in Semi-Skilled Male Archers. **9th Basic And Clinical Neuroscience Congress, Tehran, Iran**
- **Asgharian Asl, F., Vagef, L., (2019).** Effect of Repetitive Transcranial Magnetic Stimulation on response inhibition by a bilateral protocol in patients with Depressive Disorder. **8th Basic And Clinical Neuroscience Congress, Tehran, Iran**
- **Asgharian Asl, F., Vagef, L., (2019).** Effect of Repetitive Transcranial Magnetic Stimulation (rTMS) by a bilateral protocol on depression severity in patients with Depressive Disorder **8th Basic And Clinical Neuroscience Congress, Tehran, Iran**

Congress Papers (oral presentation)

- **Asgharian Asl, F., Vagef, L. (2020)** Effect of high-frequency rTMS on visuospatial memory in patients with Depressive Disorder **8th International Cognitive Science Congress, Tehran, Iran**

Translation

- **Asgharian Asl, Fatemeh**; Ghabel Damirchi, Behnam; Nik Khah, Behnush; Agha Ali Tari, Shadi(2021). Bariatric Psychology and Psychiatry [translation from English to Persian]. Arjmand Publication(in press), Tehran, Iran

Job Experiences

- 2020 - present Neurotherapist, Tadbir Psychology Center, Tabriz, Iran
- 2019 - 2020 Cognitive Psychologist, Asayesh Neurotherapy Center, Tabriz, Iran
- 2018 - 2019 rTMS technician, Asayesh Neurotherapy Center, Tabriz, Iran

Awards And Achievements

- 2019 Selected young investigator in the poster section of the 8th Congress of Basic and Clinical Neuroscience

Professional Development Workshops, Courses and Congresses

Participant

- 2021 Neuroscience and Neuroimaging Specialization (Course), Johns Hopkins University, Coursera Website
- 2021 Principles of fMRI 2 (Course), Johns Hopkins University, Coursera Website

- 2021 Principles of fMRI 1 (Course), Johns Hopkins University, Coursera Website
- 2021 Fundamental Neuroscience for Neuroimaging (Course), Johns Hopkins University, Coursera Website
- 2021 Computational Neuroscience (Course), University of Washington, Coursera Website
- 2021 Theoretical and Practical Advanced Neurofeedback Workshop, National Brain Mapping Laboratory, Tehran, Iran
- 2021 Clinical Application of Brain Stimulation(online Panel)
- 2021 The Role of Magnetic Resonance Imaging in Diagnosis and Treatment of Neurological(Online Panel)
- 2021 Workshop on Theoretical and Practical Neurofeedback, National Brain Mapping Laboratory, Tehran, Iran
- 2021 EEG Signal Processing using eeglab Software, National Brain Mapping Laboratory, Tehran, Iran
- 2021 Human Cognition and its underlying Brain Physiology at Circadian-Preferred times: Implications of NIBS, National Brain Mapping Laboratory, Tehran, Iran
- 2021 Functional Organization of Hot and Cold Executive Functions in the Brain:a Prefrontal-Cingular Network Model for Cognitive, National Brain Mapping Laboratory, Tehran, Iran
- 2021 Hot and Cold Executive Functions in the Brain and The Prefrontal-Cingular Networ: Implications for Psychiatric, National Brain Mapping Laboratory, Tehran, Iran
- 2021 General Brain MRI, MRA, and MRV: physics and technique, National Brain Mapping Laboratory, Tehran, Iran
- 2021 Applications of VR in Neuroscience, National Brain Mapping Laboratory, Tehran, Iran
- 2021 Neuroattractiveness: A new application of Brain Mapping, National Brain Mapping Laboratory, Tehran, Iran
- 2021 Introduction to Deep Learning Tools in Matlab, National Brain Mapping Laboratory, Tehran, Iran
- 2021 Introduction to Event-Related Potentials(ERP) Recording and Processings, National Brain Mapping Laboratory, Tehran, Iran
- 2021 DTI Based Alzheimer Disease Classification, National Brain Mapping Laboratory, Tehran, Iran
- 2021 Basics of functional Near InfraRed Spectroscopy (fNIRS) and data recording, National Brain Mapping Laboratory, Tehran, Iran
- 2021 MEP recording and paired-pulse TMS protocols, National Brain Mapping Laboratory, Tehran, Iran
- 2021 Last News about tDCS, National Brain Mapping Laboratory, Tehran, Iran
- 2021 Biofeedback: Theory and Application, National Brain Mapping Laboratory, Tehran, Iran
- 2021 Concept of Inteligence and review of Raven2 as an IQ Test, National Brain Mapping Laboratory, Tehran, Iran
- 2021 Feature Selection Methods and Application in Neuroimaging, National Brain Mapping Laboratory, Tehran, Iran
- 2021 Brain-Machine Interfaces: Basic Concepts and Applications, National Brain Mapping Laboratory, Tehran, Iran

- 2021 The Hallucinating Brain, National Brain Mapping Laboratory, Tehran, Iran
- 2021 New Methods and Devices in Language Studies, National Brain Mapping Laboratory, Tehran, Iran
- 2021 Applications of Cybernetic and Chaos in Biomedical Signal Processing, Applications of
- 2020 Panel ADHD and Lifespan Conditions, National Brain Mapping Laboratory, Tehran, Iran
- 2020 QEEG: From Theory to Application (Workshop), Tehran University of Medical Sciences, Tehran, Iran
- 2020 Scientific Article Writing workshop, National Brain Mapping Laboratory, Tehran, Iran
- 2020 Applications of Brain Mapping Methods in Language Studies, National Brain Mapping Laboratory, Tehran, Iran
- 2020 8th International Cognitive Science Congress, Tehran, Iran
- 2020 9th Basic and Clinical Neuroscience Congress, Tehran, Iran
- 2020 Neurocognitive Intervention for Brain Resilience Course, Brain Gym, Iran
- 2019 8th Basic and Clinical Neuroscience Congress, Tehran, Iran
- 2018 Cognitive Rehabilitation of childhood and adolescence disorders Workshop, Azarbaijan Shahid Madani University, Tabriz, Iran
- 2018 Neuropsychological assessment and cognitive rehabilitation workshop, Brain and Cognition Clinic, Tehran, Iran
- 2018 Working with EEG LAB and EEG device Workshop, Azarbaijan Shahid Madani University, Tabriz, Iran
- 2017 7th International Cognitive Science Congress, Tehran, Iran
- 2017 Brain Mapping Workshop, Azarbaijan Shahid Madani University, Tabriz, Iran
- 2016 Molecular Cytogenetics Workshop, Azarbaijan Shahid Madani University, Tabriz, Iran

Lecturer

- 2021 Executive Functions(ISBM2018), National Brain Mapping Laboratory, Tehran, Iran

Organizations Membership

- 2020 - present Deputy Secretary of Cognitive Neuroscience Working Group, Iranian Psychotherapy studies Association, Tabriz, Iran
- 2020 - present Member of the Cognitive Neuroscience Working Group, Iran's Brain Mapping's Student Branch (IBMSB), National Brain Mapping Laboratory (NBML), Tehran, Iran
- 2019 - Present Member of Iranian Neuroscience Society
- 2017 - 2019 Main member of Cognitive Science Student Scientific Association, Azarbaijan Shahid Madani University, Tabriz, Iran

Skills and Abilities

Brain stimulation Methods:

- TMS, TDCS, Neurofeedback

Neuroimaging Methods:

- QEEG(beginner), fMRI(beginner)

Cognitive Assessment and Rehabilitation Packages

- CANTAB, Captain's Log MindPower Builder, PEBL, IVA-2, Rehacom, N-back

Reference Management and Statistical Analysis Packages

- Mendeley, EndNote, SPSS

Software and toolboxes:

- MATLAB(beginner), Microsoft Office Package

Language Skills

- English: IELTS (to be taken soon), Persian (Native), Turkish (Native)

References

- Ladan Vaghef, Assistant Professor, Azarbaijan Shahid Madani University
Email: l.vaghef@azaruniv.ac.ir
- Fakhrossadat Ghoreyshi Rad, Professor, Azarbaijan Shahid Madani University
Email: fari_rad@yahoo.fr