

Mahdiyeh Khanbagi



LANGUAGES

English: Fluent

- TOEFL iBT: 99
- Reading: 23
- Listening: 26
- Speaking: 26
- Writing: 23



STRENGTHS

Tolerant & Flexible
Organized
Capable of Doing New Tasks with Minimum Supervision
Strong Presentation Skills



HOBBIES

- Talking to People
- Baking Bread
- Event Planning



CONTACT



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Education

- M.Sc in in Developmental Biology, Brain & Cognitive Sciences Department, Royan institute, Tehran, Iran | Sep 2017 - Sep 2020
Thesis Title: Studying Cognitive & Neuroimaging Biomarkers of Alzheimer's Disease for Early Detection of Cognitive Impairment using Artificial Intelligence | Supervisor: Dr. Seyed-Mahdi Khaligh Razavi
- B.Sc in Cell & Molecular Biology, University of Tehran, Tehran, Iran | Sep 2012 - Mar 2017
- High School Diploma in Life Sciences, National Institute for Development of Exceptional Talents (NODET), Farzanegan | Jan 2008 - Jun 2012

Experiences

- Project Manager at Neuronio Clinic | Feb 2021- Jun 2021
- Research Assistant at Brain & Cognitive Sciences Department at Royan Institute | Sep 2017- Present
- Teaching Assistant in Mendelian & Molecular Genetics, Biology Faculty, University of Tehran | Sep 2015- Dec 2016
- Scientific Secretary of 9th International Summer School on Brain & Cognitive Sciences | Dec 2017 - Jun 2018
- Charity Director of Alumni Association of Farzanegan High School (NODET) | Sep 2014 - Sep 2017

Honors and Awards

- Awarded a Fully Funded Internship Position by IAESTE Germany | 2017
Ref No. DE-2017-1201-5
- Second Best Paper in the Iranian Symposium on Brain Mapping Updates (ISBM 2019)
- Rank 1st by GPA among Master Students in Royan | Class 2017
- Rank 5th in the National Entrance Exam of Master Studies - 2017

Computer Skills

MATLAB

Linux - Bash

Python

R

PHP

FreeSurfer

SPM

Final Cut Pro

Garage Band

Publications

- Khanbagi M, Merefat H, Karimi H, Kalafatis C, Vahabi Z, Khaligh-Razavi SM, *Association between Integrated Cognitive Assessment (ICA) and Measures of Brain Structure in Mild Cognitive Impairment and Mild Alzheimer's Disease*, Alzheimer Association Annual Conference (AAIC 2020) [[Link](#)]
- Karimi H, Merefat H, Khanbagi M, Kalafatis C, Modarres H, Vahabi Z, Khaligh-Razavi SM, *Temporal Dynamics of Animacy Categorization in the brain of Patients with Mild Cognitive Impairment*. bioRxiv (2020) [[Link](#)]
- Karimi H, Merefat H, Khanbagi M, Karami A, Vahabi Z, *Drift Diffusion Model Can Detect Patients with Cognitive Impairment*, Frontiers in Biomedical Technologies (2020)
- Karimi H, Merefat H, Khanbagi M, Kalafatis C, Vahabi Z, Khaligh-Razavi SM, *Electroencephalography (EEG) reveals a decrease in speed of animacy processing in mild cognitive impairment and an alteration in neural response patterns*, Alzheimer Association Annual Conference (AAIC 2020) [[Link](#)]
- Khaligh-Razavi SM, Sadeghi M, Khanbagi M, Kalafatis C, Nabavi SM. *A Self-Administered, Artificial Intelligence Platform for Cognitive Assessment in Multiple Sclerosis (MS)* BMC Neurol. 20, 193 (2020) [[Link](#)]
- Merefat H, Karimi H, Khanbagi M, Kalafatis C, Vahabi Z, Khaligh-Razavi SM. *Neural Speed of Visual Information Processing is Delayed in Early Stages of Alzheimer's Disease*. Alzheimer's Society Annual Conference (ASAC 2019) [[Link](#)]
- Karimi H, Merefat H, Khanbagi M, Vahabi Z, Khaligh-Razavi SM, *Task-based EEG for Detection of Patients with Mild Cognitive Impairment*, The 3rd Iranian Symposium on Brain Mapping Updates (ISBM 2019)
- Khaligh-Razavi SM, Sadeghi M, Khanbagi M, Kalafatis C, Nabavi SM. *Using ICA –an artificial intelligence (AI)-assisted technology— as a digital biomarker of MS disease progression and treatment efficacy*. 35th Congress of the European Committee for Treatment and Research in Multiple Sclerosis (ECTRIMS 2019) [[Link](#)]
- Khaligh-Razavi SM, Sadeghi M, Khanbagi M, Kalafatis C, Nabavi SM. *A Brief Language-Independent and Self-Administered Computerized Test for Cognitive Assessment in Multiple Sclerosis (MS)*. 34th Congress of the European Committee for Treatment and Research in Multiple Sclerosis (ECTRIMS 2018) [[Link](#)]
- Kalafatis C, Modarres MH, Merefat H, Khanbagi M, Karimi H, Vahabi Z, Khaligh-Razavi SM, *Employing Artificial Intelligence in the Development of a Self-Administered, Computerized Cognitive Assessment for the Assessment of Neurodegeneration*, Alzheimer's & Dementia, July 2019 [[Link](#)]
- Kalafatis C, Modarres H, Apostolou P, Merefat H, Khanbagi M, Karimi H, Vahabi Z, Aarsland D, Khaligh-Razavi SM, *Validity and Cultural Generalizability of a 5-min AI-based, Computerized Cognitive Assessment in Mild Cognitive Impairment and Alzheimer's Dementia*, Frontiers in Psychiatry | Aging Psychiatry (2021) [[Link](#)]
- Sadeghi M, Daemi M, Khaligh-Razavi SM, Tabasi SM, Khanbagi M, Nabavi SM, Kordi MR, *Virtual Reality(VR)-Based Cognitive Rehabilitation: Cognitive games are complementary to physical training for an optimum rehabilitation strategy in patients with Multiple Sclerosis (MS)*, 35th Congress of the European Committee for Treatment and Research in Multiple Sclerosis (ECTRIMS 2019), Oral Presentation [[Link](#)]
- Khaligh-Razavi S-M, Habibi S, Sadeghi M, Merefat H, Khanbagi M, Nabavi SM, et al. *Integrated Cognitive Assessment: Speed and Accuracy of Visual Processing as a Reliable Proxy to Cognitive Performance*. Sci Rep. 9, 1102 (2019) [[Link](#)]
- Khaligh-Razavi SM, Modarres H, Merefat H, Karimi H, Khanbagi M, Kalafatis C, Vahabi Z. *Artificial Intelligence (AI)-Based Cognitive Assessment Tool for Early Diagnosis of AD*. Alzheimer's Research UK (ARUK 2019) [[Link](#)]