Name and Surname: **Mohammad Hadi Aarabi** Email: mohammadhadiarabi@gmail.com
Nationality: Iranian
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EDUCATION AND TRAINING

2012 – **BSc:** Electrical Engineering, University of Tehran, Iran.
2015 – **MS:** Biomedical Engineering, Tehran University of Medical Sciences, Iran.
2020 – 2024 **PhD:** Marie Skłodowska-Curie Ph.D. in Neuroscience, University of Padova, Italy.

RESEARCH AND PROFESSIONAL EXPERIENCE

My research interests lie in the field of medical Magnetic Resonance Imaging (MRI) analysis, specifically in the area of Diffusion MRI. I am particularly interested in using this technique to study the microstructural organization of the human brain, as well as investigating brain connectivity using tractography and connectome analysis. My research aims to provide a deeper understanding of the neural mechanisms underlying brain function, particularly in relation to health and focal and degenerative diseases.

RESEARCH PROFILE: To date, I have published **67 research papers in international peer-reviewed journals**.

Web of Sciences: https://www.webofscience.com/wos/author/record/H-2154-2018
ORCID: 0000-0002-5550-9782
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SCOPUS ID: 57195628875
H-INDEX: GOOGLE SCHOLAR = 21 SCOPUS = 17
CITATION: GOOGLE SCHOLAR = 1181 SCOPUS = 844

RESEARCH RESPONSIBILITIES: In 2013, I established a junior research group at the Student Scientific Research Center of Tehran University of Medical Sciences (TUMS). As the director of this group, my role was to oversee and support the voluntary, part-time student research activities conducted at the SSRC, TUMS. Since 2020, I have joined as early stage research in European School of Network Neuroscience(https://eusnn.eu/) as Marie Skłodowska-Curie Ph.D under supervision of Professor. Maurizio Corbetta

TEACHING ACTIVITIES: Since 2014, I have been teaching “Introduction to Diffusion MRI” to medical students at Tehran University of Medical Sciences.

WORK EXPERIENCE

PhD - Neuroscience

December 2020 – May 2024

Padova Neuroscience Center. University of Padova, Italy
Analysis and report of results of data investigating clinical and diffusion MRI data to study effects of brain lesion in stroke patients
Thesis PhD: Exploring Microstructural and Network Mechanisms in Stroke using Diffusion MRI
Faculty Supervisor: **Prof. Maurizio Corbetta**

Researcher

July 2013 – October 2019

Students' Scientific Research Center, Tehran University of Medical Sciences, Tehran, Iran
Mentoring medical doctor students in neuroimaging specifically in diffusion MRI based on open access databases

PERSONAL SKILLS

Mother tongue: Persian

	UNDERSTANDING		SPEAKING		WRITING
Other languages	Listening	Reading	Spoken interaction	Spoken production	
ENGLISH	Proficient	Proficient	Proficient	Proficient	Proficient

Computer and professional skills	Operating systems: Linux (Ubuntu) and Microsoft Windows Language programming: Matlab, Shell Script, Python, R Softwares for biological data analysis (e.g., FSL, AFNI, ANTs, FreeSurfer, Brain connectivity toolbox, SPM, Mrtrix, BraiNet, Surf-Ice). Computer graphic softwares: Adobe Premiere
Professional skills	Computer programming, preprocessing and analysis of biological data (structural and microstructural magnetic resonance data), statistical analysis, Managing Scientific Project and Mentoring junior students

VISITING PERIODS

Visiting PhD Student

August 2018 – November 2018

Clinical Stroke and Imaging Research Laboratory, University Medical Center Hamburg-Eppendorf , Hamburg, Germany

microstructural integrity in human stroke in course of recovery**.** Faculty supervisor: **Prof. Bastin Cheng**

ADDITIONAL INFORMATION

REFERENCE ACTIVITY	1) Reviewer for peer-reviewed journals including *Human Brain Mapping, Brain Imagin and Behavior, Neuroimage Clinical, Brain Structure and Function, Psychiatry Research: Neuroimaging, Alcoholism: Clinical and Experimental Research, Frontiers in Neurology, Scientific Reports, Npj Parkinson's Disease, Journal of Psychiatric Research, European Radiology, Parkinsonism and Related Disorders* 2) Reviewer for *OHBM 2016, 2017, 2018, 2019*

List of Publication

1. Nabizadeh F, Pirahesh K, **Aarabi MH**, Wennberg A, Pini L. Behavioral and dysexecutive variant of Alzheimer's disease: insights from structural and molecular imaging studies. Heliyon. 2024 Apr;e29420. https://doi.org/10.1016/j.heliyon.2024.e29420
2. Moghaddam HS, Parsaei M, Taghavizanjani F, Cattarinussi G, **Aarabi MH**, Sambataro F. White matter alterations in affective and non-affective early psychosis: A diffusion MRI study. Journal of Affective Disorders. 2024. doi: https://doi.org/10.1016/j.jad.2024.01.238.
3. Parsaei M, Sanjari Moghaddam H, **Aarabi MH**. Sex differences in brain structures throughout the lifetime. Aging Brain. 2023;4:100098. doi: https://doi.org/10.1016/j.nbas.2023.100098.
4. Nabizadeh, F., & **Aarabi, M. H**.* (2023). Functional and structural lesion network mapping in neurological and psychiatric disorders: a systematic review . Frontiers in Neurology, 14. https://doi.org/10.3389/fneur.2023.1100067
5. Ghazi, N., **Aarabi, M. H**., & Soltanian-Zadeh, H. (2023). Deep Learning Methods for Identification of White Matter Fiber Tracts: Review of State-of-the-Art and Future Prospective. Neuroinformatics. https://doi.org/10.1007/s12021-023-09636-4
6. Seyedmirzaei H, Nabizadeh F, **Aarabi MH**, Pini L. Neurite Orientation Dispersion and Density Imaging in Multiple Sclerosis: A Systematic Review. Journal of Magnetic Resonance Imaging.n/a(n/a). doi: https://doi.org/10.1002/jmri.28727.
7. Dolatshahi M, Sanjari Moghaddam H, Saberi P, Mohammadi S, **Hadi Aarabi M**. Central Nervous System Microstructural Alterations in Type 1 Diabetes Mellitus: A Systematic Review of Diffusion Tensor Imaging Studies. Diabetes Research and Clinical Practice. 2023:110645. doi: https://doi.org/10.1016/j.diabres.2023.110645.
8. Mallahzadeh A, Shafie M, Tahvilian M, Sadeghi M, Moslemian G, Barzin P, et al. White matter tracts alterations underpinning reward and conflict processing. Journal of Affective Disorders. 2023;331:251-8. doi: https://doi.org/10.1016/j.jad.2023.03.070.
9. Rashidi F, Khanmirzaei MH, Hosseinzadeh F, Kolahchi Z, Jafarimehrabady N, Moghisseh B, et al. Cingulum and Uncinate Fasciculus Microstructural Abnormalities in Parkinson's Disease: A Systematic Review of Diffusion Tensor Imaging Studies. Biology. 2023;12(3):475.
10. Sinaeifar Z, Mayeli M, Shafie M, Pooyan A, Cattarinussi G, **Aarabi MH**, et al. Trait anger representation in microstructural white matter tracts: A diffusion MRI study. Journal of Affective Disorders. 2023;322:249-57. doi: https://doi.org/10.1016/j.jad.2022.11.020.
11. Abdolalizadeh A, Ohadi MAD, Ershadi ASB, **Aarabi MH**. Graph theoretical approach to brain remodeling in multiple sclerosis. Network Neuroscience. 2023;7(1):148-59. doi: 10.1162/netn_a_00276.
12. Cattarinussi, G., Moghaddam, H. S., **Aarabi, M. H**., Squarcina, L., Sambataro, F., Brambilla, P., & Delvecchio, G. (2022). White Matter Microstructure Associated with the Antidepressant Effects of Deep Brain Stimulation in Treatment-Resistant Depression: A Review of Diffusion Tensor Imaging Studies. International Journal of Molecular Sciences, 23(23), 15379. https://www.mdpi.com/1422-0067/23/23/15379

13. Sinaeifar, Z., Mayeli, M., Shafie, M., Pooyan, A., Cattarinussi, G., **Aarabi, M. H**., & Sambataro, F. (2023). Trait anger representation in microstructural white matter tracts: A diffusion MRI study. J Affect Disord, 322, 249-257. https://doi.org/10.1016/j.jad.2022.11.020
14. Seyedmirzaei, H., Shafie, M., Kargar, A., Golbahari, A., Bijarchian, M., Ahmadi, S., Shahmohammadi, A., Sadeghi, M., **Aarabi, M.H**., and Mayeli, M. White matter tracts associated with alexithymia and emotion regulation: A diffusion MRI study. Journal of Affective Disorders. 2022;314:271-80. doi: https://doi.org/10.1016/j.jad.2022.07.039.
15. Rahimi R, Dolatshahi M, Abbasi-Feijani F, Momtazmanesh S, Cattarinussi G, **Aarabi MH**, et al. Microstructural white matter alterations associated with migraine headaches: a systematic review of diffusion tensor imaging studies. Brain Imaging and Behavior. 2022. doi: 10.1007/s11682-022-00690-1.
16. Haghshomar, M., Shobeiri, P., Seyedi, S.A., Abbasi-Feijani, F., Poopak, A., Sotoudeh, H., Kamali, A., and **Aarabi, M.H**. Cerebellar Microstructural Abnormalities in Parkinson's Disease: a Systematic Review of Diffusion Tensor Imaging Studies. The Cerebellum. 2022;21(4):545-71. doi: 10.1007/s12311-021-01355-3.
17. Cattarinussi G, **Aarabi MH**[1], Sanjari Moghaddam H, Homayoun M, Ashrafi M, Soltanian-Zadeh H, et al. Effect of parental depressive symptoms on offspring's brain structure and function: A systematic review of neuroimaging studies. Neuroscience & Biobehavioral Reviews. 2021;131:451-65. doi: https://doi.org/10.1016/j.neubiorev.2021.09.046.
18. Dolatshahi M, Ashraf-Ganjouei A, Wu IW, Zhang Y, **Aarabi MH**, Tosun D. White matter changes in drug-naïve Parkinson's disease patients with impulse control & probable REM sleep behavior disorders. Journal of the Neurological Sciences. 2021;430:120032. doi: https://doi.org/10.1016/j.jns.2021.120032.
19. Sanjari Moghaddam H, Sanjari Moghaddam A, Hasanzadeh A, Sanatian Z, Mafi A, **Aarabi MH***, et al. A systematic review of resting-state and task-based fmri in juvenile myoclonic epilepsy. Brain Imaging and Behavior. 2021. doi: 10.1007/s11682-021-00595-5.
20. Farshbafnadi M, Kamali Zonouzi S, Sabahi M, Dolatshahi M, **Aarabi MH**. Aging & COVID-19 susceptibility, disease severity, and clinical outcomes: The role of entangled risk factors. Experimental Gerontology. 2021;154:111507. doi: https://doi.org/10.1016/j.exger.2021.111507.
21. Momtazmanesh S, **Aarabi MH**, Sanjari Moghaddam H, Delavari F, Shafie M, Abbasi-Feijani F, et al. Brain microstructural abnormalities in 22q11.2 deletion syndrome: A systematic review of diffusion tensor imaging studies. European Neuropsychopharmacology. 2021;52:96-135. doi: https://doi.org/10.1016/j.euroneuro.2021.07.004.
22. Sanjari Moghaddam H, Mobarak Abadi M, Dolatshahi M, Bayani Ershadi S, Abbasi-Feijani F, Rezaei S, Cattarinussi G, **Aarabi MH***. Effects of Prenatal Methamphetamine Exposure on the Developing Human Brain: A Systematic Review of Neuroimaging Studies. ACS Chemical Neuroscience 2021.
23. Milham M, Petkov C, Belin P, Ben Hamed S, Evrard H, Fair D, et al. Toward next-generation primate neuroscience: A collaboration-based strategic plan for integrative neuroimaging. Neuron. 2021. doi: https://doi.org/10.1016/j.neuron.2021.10.015.
24. Mehrabinejad M-M, Rafei P, Sanjari Moghaddam H, Sinaeifar Z, **Aarabi MH***. Sex Differences are Reflected in Microstructural White Matter Alterations of Musical Sophistication: A Diffusion MRI Study. Frontiers in Neuroscience. 2021;15(908). doi: 10.3389/fnins.2021.622053.
25. Dolatshahi M, Sabahi M, **Aarabi MH**. Pathophysiological Clues to How the Emergent SARS-CoV-2 Can Potentially Increase the Susceptibility to Neurodegeneration. Molecular Neurobiology. 2021. doi: 10.1007/s12035-020-02236-2.
26. Ashraf-ganjouei A, Moradi K, **Aarabi MH**, Abdolalizadeh A, Kazemi SZ, Kasaeian A, et al. The Association Between REM Sleep Behavior Disorder and Autonomic Dysfunction in Parkinson's Disease. Journal of Parkinson's Disease. 2021;Preprint:1-9. doi: 10.3233/JPD-202134.
27. Mehrabinejad M-M, Sanjari Moghaddam H, Mohammadi E, Hajighadery A, Sinaeifar Z, **Aarabi MH***. Sex differences in microstructural white matter alterations of mathematics anxiety based on diffusion MRI connectometry. Neuropsychology. 2021;35(2):197-206. doi: 10.1037/neu0000684.
28. Moghaddam HS, Mohammadi E, Dolatshahi M, Mohebi F, Ashrafi A, Khazaie H, **Aarabi MH*** (2020) White matter microstructural abnormalities in primary insomnia: A systematic review of diffusion tensor imaging studies. Progress in Neuro-Psychopharmacology and Biological Psychiatry:110132. doi:https://doi.org/10.1016/j.pnpbp.2020.110132
29. Rahmani F, Sanjari Moghaddam H, **Aarabi MH*** (2020) Intact microstructure of the right corticostriatal pathway predicts creative ability in healthy adults. Brain and Behavior:e01895. doi:10.1002/brb3.1895
30. Mohammadi S, Moosaie F, **Aarabi MH*** (2020) Understanding the Immunologic Characteristics of Neurologic Manifestations of SARS-CoV-2 and Potential Immunological Mechanisms. Molecular Neurobiology. doi:10.1007/s12035-020-02094-y
31. Sanjari Moghaddam H, Mehrabinejad M-M, Mohebi F, Hajighadery A, Maroufi SF, Rahimi R, **Aarabi MH*** (2020) Microstructural white matter alterations and personality traits: A diffusion MRI study. Journal of Research in Personality 88:104010. doi:https://doi.org/10.1016/j.jrp.2020.104010
32. Moghaddam HS, **Aarabi MH**, Mehvari-Habibabadi J, Sharifpour R, Mohajer B, Mohammadi-Mobarakeh N, Hashemi-Fesharaki SS, Elisevich K, Nazem-Zadeh M-R (2020) Distinct patterns of hippocampal subfield volume loss in left and right mesial temporal lobe epilepsy. Neurological Sciences. doi:10.1007/s10072-020-04653-6
33. Sanjari Moghaddam H, Dolatshahi M, Mohebi F, **Aarabi MH*** (2020) Structural white matter alterations as compensatory mechanisms in Parkinson's disease: A systematic review of diffusion tensor imaging studies. Journal of Neuroscience Research 98 (7):1398-1416. doi:10.1002/jnr.24617
34. Ashraf-ganjouei A, Moradi K, Bagheri S, **Aarabi MH** (2020) The association between systemic inflammation and cognitive performance in healthy adults. Journal of Neuroimmunology 345:577272. doi:https://doi.org/10.1016/j.jneuroim.2020.577272
35. Rahmani F, Sanjari Moghaddam H, Rahmani M, **Aarabi MH*** (2020) Metabolic connectivity in Alzheimer's diseases. Clinical and Translational Imaging 8 (3):157-166. doi:10.1007/s40336-020-00371-3

36. Sanjari Moghadam H, Ghazi Sherbaf F, **Aarabi MH*** (2019) Brain Microstructural Abnormalities in Type 2 Diabetes Mellitus: A Systematic Review of Diffusion Tensor Imaging Studies. Frontiers in Neuroendocrinology:100782. doi:https://doi.org/10.1016/j.yfrne.2019.100782
37. Rahmani F, Sanjari Moghaddam H, **Aarabi MH*** (2019) Microstructural changes and internet addiction behaviour: A preliminary diffusion MRI study. Addictive Behaviors 98:106039. doi:https://doi.org/10.1016/j.addbeh.2019.106039
38. Mohajer B, Masoudi M, Ashrafi A, Mohammadi E, Bayani Ershadi AS, **Aarabi MH***, Uban KA (2019) Structural white matter alterations in male adults with high functioning autism spectrum disorder and concurrent depressive symptoms; a diffusion tensor imaging study. Journal of Affective Disorders 259:40-46. doi:https://doi.org/10.1016/j.jad.2019.08.010
39. Ashraf-Ganjouei A, Kheiri G, Masoudi M, Mohajer B, Mojtahed Zadeh M, Saberi P, Shirin Shandiz M, **Aarabi MH*** (2019) White Matter Tract Alterations in Drug-naïve Parkinson's Disease Patients with Excessive Daytime Sleepiness. Frontiers in neurology 10:378, doi: 10.3389/fneur.2019.00378
40. Ashraf-Ganjouei A, Rahmani F, **Aarabi MH[1]**, Moghaddam HS, Nazem-Zadeh M-R, Davoodi-Bojd E, Soltanian-Zadeh H (2019) White matter correlates of disease duration in patients with temporal lobe epilepsy: updated review of literature. Neurological Sciences. doi: 10.1007/s10072-019-03818-2
41. Sobhani, S., Rahmani, F., **Aarabi, M. H**.[1], & Sadr, A. V. (2019). Exploring white matter microstructure and olfaction dysfunction in early parkinson disease: diffusion MRI reveals new insight. Brain Imaging and Behavior. doi: 10.1007/s11682-017-9781-0
42. Haghshomar, M., Rahmani, F., **Hadi Aarabi, M[1]**., Shahjouei, S., Sobhani, S., & Rahmani, M. (2019). White Matter Changes Correlates of Peripheral Neuroinflammation in Patients with Parkinson's Disease. Neuroscience. doi: 10.1016/j.neuroscience.2017.10.050
43. Ghazi Sherbaf, F., Mojtahed Zadeh, M., Haghshomar, M., & **Aarabi, M. H*.** (2019). Posterior limb of the internal capsule predicts poor quality of life in patients with Parkinson's disease: connectometry approach. Acta Neurol Belg. doi: 10.1007/s13760-018-0910-3
44. Sanjari Moghaddam H, Rahmani F, **Aarabi MH[1]**, Nazem-Zadeh M-R, Davoodi-Bojd E, Soltanian-Zadeh H (2019) White matter microstructural differences between right and left mesial temporal lobe epilepsy. Acta neurologica Belgica. doi:10.1007/s13760-019-01074-x
45. Ansari, M., Adib Moradi, S., Ghazi Sherbaf, F., Hedayatnia, A., & **Aarabi, M. H***. (2019). Comparison of structural connectivity in Parkinson's disease with depressive symptoms versus non-depressed: a diffusion MRI connectometry study. Int Psychogeriatr, 1-8. doi: 10.1017/s1041610218000170
46. Sanjari Moghaddam H, Dolatshahi M, Salardini E, **Aarabi MH*** (2019) Association of olfaction dysfunction with brain microstructure in prodromal Parkinson disease. Neurological Sciences. doi:10.1007/s10072-018-3629-2
47. Ghazi Sherbaf F, **Aarabi MH***, Hosein Yazdi M, Haghshomar M (2019) White matter microstructure in fetal alcohol spectrum disorders: A systematic review of diffusion tensor imaging studies. Human brain mapping 40 (3), 1017-1036. doi:doi:10.1002/hbm.24409
48. Mayeli, M., Rahmani, F., & **Aarabi, M. H*.** (2018). Comprehensive Investigation of White Matter Tracts in Professional Chess Players and Relation to Expertise: Region of Interest and DMRI Connectometry. Frontiers in Neuroscience, 12(288). doi: 10.3389/fnins.2018.00288
49. Ghazi Sherbaf, F., Rahmani, F., Jooyandeh, S. M., & **Aarabi, M. H*.** (2018). Microstructural changes in patients with Parkinson disease and REM sleep behavior disorder: depressive symptoms versus non-depressed. Acta Neurol Belg. doi: 10.1007/s13760-018-0896-x,
50. Mojtahed Zadeh, M., Ashraf-Ganjouei, A., Ghazi Sherbaf, F., Haghshomar, M., & **Aarabi, M. H**.* (2018). White Matter Tract Alterations in Drug-Naive Parkinson's Disease Patients With Impulse Control Disorders. Front Neurol, 9, 163. doi: 10.3389/fneur.2018.00163
51. Ghazi Sherbaf, F., Same, K., Ashraf-Ganjouei, A., & **Aarabi, M. H.*** (2018). Altered white matter microstructure associated with mild and moderate depressive symptoms in young adults, a diffusion tensor imaging study. Neuroreport, 29(8), 685-689. doi: 10.1097/wnr.0000000000001017
52. Sanjari Moghaddam, H., Ghazi Sherbaf, F., Mojtahed Zadeh, M., Ashraf-Ganjouei, A., & **Aarabi, M. H*.** (2018). Association Between Peripheral Inflammation and DATSCAN Data of the Striatal Nuclei in Different Motor Subtypes of Parkinson Disease. Front Neurol, 9, 234. doi: 10.3389/fneur.2018.00234
53. Moghaddam, H. S., & **Aarabi, M. H.** (2018). Synaptotagmin-11 Is a novel hotspot in the pathogenesis of parkin-linked Parkinson's disease: New implications for clinical targeting. Movement Disorders, 33(4), 582-582. doi: doi:10.1002/mds.27369
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55. Sanjari Moghaddam, H., Valitabar, Z., Ashraf-Ganjouei, A., Mojtahed Zadeh, M., Ghazi Sherbaf, F., & **Aarabi, M. H.*** (2018). Cerebrospinal Fluid C-Reactive Protein in Parkinson's Disease: Associations with Motor and Non-motor Symptoms. NeuroMolecular Medicine. doi: 10.1007/s12017-018-8499-5
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63. Haghshomar, M., Dolatshahi, M., Ghazi Sherbaf, F., Sanjari Moghaddam, H., Shirin Shandiz, M., & **Aarabi, M. H.*** (2018). Disruption of Inferior Longitudinal Fasciculus Microstructure in Parkinson's Disease: A Systematic Review of Diffusion Tensor Imaging Studies. Front Neurol, 9(598). doi: 10.3389/fneur.2018.00598
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