

# Amin Saberi

PhD Student at Cognitive Neurogenetics Lab  
Institute of Neurosciences and Medicine (INM-7), Research Center Jülich  
Max Planck Institute for Human Cognitive and Brain Sciences  
Institute of Systems Neuroscience, Heinrich Heine University Düsseldorf

email: a.saberi@fz-juelich.de  
amnsbr@gmail.com  
website: amnsbr.github.io

## EDUCATION

- 2021–     Ph.D., Heinrich Heine University Düsseldorf  
2011–19   M.D., Mashhad University of Medical Sciences

## PROFESSIONAL EXPERIENCE

- 2021–     Max Planck Institute for Human Cognitive and Brain Sciences / Research Center Jülich  
            Doctoral Student  
2018–21   Institute of Medical Science and Technology, Shahid Beheshti University  
            Researcher  
2017–18   Mashhad University of Medical Sciences  
            Medical Intern

## RESEARCH AREAS

Brain imaging, Computational neuroscience, Psychiatry, Cortical microstructure, Brain development

## SKILLS

Programming (Python, C/C++, CUDA, R & Matlab), Statistical analysis, Neuroimaging and clinical meta-analysis, Structural and functional (task-based & resting-state) MRI analysis, Whole-brain dynamical modelling

## PUBLICATIONS

### Papers

- 2023     Maleki Balajoo, S., Eickhoff, S. B., Masouleh, S. K., Plachti, A., Waite, L., Saberi, A., Bahri, M. A., Bastin, C., Salmon, E., Hoffstaedter, F., Palomero-Gallagher, N., Genon, S.\*  
            “Hippocampal metabolic subregions and networks: Behavioral, molecular, and pathological aging profiles.” *Alzheimer’s & Dementia*. doi:10.1002/alz.13056  
2023     Saberi, A., Paquola, C., Wagstyl, K., Hettwer, M., Bernhardt, B.C., Eickhoff, S.B., Valk, S.L.\*  
            “The spatial arrangement of laminar thickness profiles in the human cortex scaffolds processing hierarchy.” *bioRxiv*. doi:10.1101/2023.03.25.532115  
2022     Hettwer, M. D., Saberi, A., Fan, Y.-S., Valk, S. L.\* “Schizophrenia and Macroscale Brain Structure: Genes in Context.” *Biological Psychiatry*, 92(4), 258–260.  
            doi:10.1016/j.biopsych.2022.06.010

- 2022 Kamalian, A., Khodadadifar, T., Saberi, A., Masoudi, M., Camilleri, J. A., Eickhoff, C. R., ... Tahmasian, M.\* "Convergent regional brain abnormalities in behavioral variant frontotemporal dementia: A neuroimaging meta-analysis of 73 studies." *Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring*, 14(1), e12318. doi:10.1002/dad2.12318
- 2022 Ghodsi, H., Rahimi, H. R., Aghili, S. M., Saberi, A., Shoeibi, A.\* "Evaluation of curcumin as add-on therapy in patients with Parkinson's disease: A pilot randomized, triple-blind, placebo-controlled trial." *Clinical Neurology and Neurosurgery*, 107300. doi:10.1016/j.clineuro.2022.107300
- 2022 Rahimi Jafari, S., Sareban Nejad, S., Saberi, A., Khazaie, H., Camilleri, J. A., Eickhoff, C. R., Eickhoff, S. B., Tahmasian, M.\* "Is there any consistent structural and functional brain abnormality in narcolepsy? A meta-analytic perspective." *Neuroscience & Biobehavioral Reviews*, 132, 1181–1182. doi: 10.1016/j.neubiorev.2021.10.034
- 2021 Saberi, A., Mohammadi, E., Zarei, M., Eickhoff, S. B., Tahmasian, M.\* "Structural and functional neuroimaging of late-life depression: A coordinate-based meta-analysis." *Brain Imaging and Behavior*, 16, 518–531. doi: 10.1007/s11682-021-00494-9
- 2021 Saberi, A., Abdolalizadeh, A., Mohammadi, E., Nahayati, M. A., Bagheri, H., Shekarchi, B., Kargar, J.\* "Thalamic shape abnormalities in patients with multiple sclerosis-related fatigue." *Neuroreport*, 32(6), 438–442. doi: 10.1097/WNR.0000000000001616
- 2021 Tahmasian, M.\*, Aleman, A., Andreassen, O. A., Arab, Z., Baillet, M., Benedetti, F., Bresser, T., Bright, J., Chee, M. W. L., Chylinski, D., Cheng, W., Deantoni, M., Dresler, M., Eickhoff, S. B., Eickhoff, C. R., Elvsåshagen, T., Feng, J., Foster-Dingley, J. C., Ganjgahi, H., ... Saberi, A., ... Zarei, M. "ENIGMA-Sleep: Challenges, opportunities, and the road map." *Journal of Sleep Research*, e13347. doi: 10.1111/jsr.13347
- 2021 Bijari, M., Jangjoo, S., Emami, N., Raji, S., Mottaghi, M., Moallem, R., Jangjoo, A., Saberi, A.\* "The Accuracy of Visceral Adiposity Index for the Screening of Metabolic Syndrome: A Systematic Review and Meta-Analysis." *International Journal of Endocrinology*, 2021, e6684627. doi: 10.1155/2021/6684627
- 2021 Ghodsi, A., Bijari, M., Alamdaran, S. A., Saberi, A., Mahmoudabadi, E., Balali, M. R., Ghahremani, S.\* "Chest computed tomography findings of COVID-19 in children younger than 1 year: A systematic review." *World Journal of Pediatrics*, 17, 234–241. doi: 10.1007/s12519-021-00424-1
- 2021 Khorrampazhouh, N., Omranzadeh, A., Fazeli, B., Zarifian, A., Ghodsi, A., Amirkhanlou, F., Saberi, A., ... Moghadam, M. D.\* "A Systematic Review and Meta-analysis of Clinical Studies on Ankylosing Spondylitis and Neutrophil to Lymphocyte Ratio." *Current Rheumatology Reviews*, 18, 160–167. doi: 10.2174/1573397117666210921114431
- 2020 Rezaeitalab, F., Esmaeili, M.\*, Saberi, A., Vahidi, Z., Emadzadeh, M., Rahimi, H. R., Ramezani, N., Mirshabani-Toloti, S. Z. "Predictive value of inflammatory markers for functional outcomes in patients with ischemic stroke." *Current Journal of Neurology*, 19(2), 47–52. doi: 10.18502/cjn.v19i2.4940
- 2017 Ganji, A., Esmaeilzadeh, A., Ghanaei, O., Saberi, A.\*, Taherzadeh, D., Sazgarnia, S., Mayabi Joghali, Z., Zirak, M., Abdollah Ramazani, S., Zarifm Mahmoudi, L. "Predictive value of red blood cell distribution width for mortality in patients with acute pancreatitis: A systematic review and meta-analysis." *Medical Journal of the Islamic Republic of Iran*, 31, 124. doi: 10.14196/mjiri.31.124

### Conference Abstracts (as presenting author)

- 2022 Saberi, A., Paquola, C., Wagstyl, K., Hettwer, M., Eickhoff, S.B., Bernhardt, B.C., Valk, S.L. "Organization of laminar thickness covariance in the human cortex." *6<sup>th</sup> BigBrain Workshop*, Zadar, Croatia.
- 2022 Saberi, A., Paquola, C., Wagstyl, K., Hettwer, M., Eickhoff, S.B., Bernhardt, B.C., Valk, S.L. "Principal axis of laminar thickness covariance in the human cortex." *28<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping*, Glasgow, United Kingdom.
- 2020 Saberi, A., Khatibi A. "Brain mediators of the vicarious facilitation of pain." *7<sup>th</sup> Iranian Human Brain Mapping Congress*, Tehran, Iran. (Best presentation award)
- 2019 Saberi, A., Mohammadi, E., Eickhoff, C.R., Zarei, M., Eickhoff, S.B., Tahmasian, M. "A coordinate based meta-analysis on the brain functional and structural changes in late life depression." *6<sup>th</sup> Iranian Human Brain Mapping Congress*, Tehran, Iran. (Best presentation award)
- 2017 Saberi, A., Ghodsi, H.R. "Neutrophil to lymphocyte ratio as a prognostic marker in glioblastoma multiforme: a systematic review and meta-analysis." *The 1<sup>st</sup> International Neuroinflammation Congress*, Mashhad, Iran.
- 2016 Saberi, A., Gazanchian, M., Ghodsi, H.R., Mofatteh, A., Nazarpour, S. "Cerebral blood volume as a prognostic marker in glioblastoma patients treated with bevacizumab: a systematic review." *1<sup>st</sup> International Razavi Cancer Congress*, Mashhad, Iran.
- 2012 Acheshmeh, Z., Alizade, H., Ghodsi, H.R., Saberi, M.A., Shahrokhi, Y. "The effect of stress on working memory in individuals with different personality traits." *1<sup>st</sup> International Anxiety Congress*, Mashhad, Iran.

### TEACHING & SUPERVISION

- 2022 Co-supervisor for MSc internship of Marie Rademacher
- 2022 Co-supervisor for BSc internship of Julia Rakowski
- 2021 "Python for Data Science", Online.
- 2020 "NeuromatchAcademy, an international computational neuroscience crash course" (Teaching assistant), Online.
- 2017 "Meta-analysis of prognostic and diagnostic studies workshop", Mashhad, Iran.

### AWARDS AND HONORS

- 2015 Awarded membership of National Elites Foundation, Iran
- 2011 Ranked 157<sup>th</sup> (among 400,000 students of natural sciences) in National University Entrance Exam, Iran

### PROFESSIONAL MEMBERSHIPS

Organization for Human Brain Mapping

ENIGMA-Sleep group  
Iranian Medical Council