

Amin Saberi

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GENERAL INFORMATION

- Date of Birth: 1993 June 24th
- Place of Birth/Living: Mashhad, Iran
- Languages: Farsi (native), English (proficient)

EDUCATION

- M.D., Mashhad University of Medical Sciences, Mashhad, Iran. 2011 fall – 2019 winter (GPA: 17.86 / 20, top 3% in class)

RESEARCH

- Non-resident researcher in neuroimaging (Supervisor: Dr. Masoud Tahmasian), Institute of Medical Sciences and Technologies, Shahid Beheshti University, Tehran, Iran. 2018 fall - now

SKILLS

- Structural and functional (resting-state or task-based) neuroimaging analysis with FSL, SPM, FreeSurfer, and fmriprep
- Neuroimaging and clinical meta-analysis
- Basic computational neuroscience (Bayesian modeling principles, Markov decision process, reinforcement learning, dynamic causal modeling, models of neurons and neuronal networks)
- Python (statistical analysis, web/desktop app programming)
- Basic machine learning with Scikit-learn, Tensorflow, and PyTorch

PUBLICATIONS

- **Saberi, A.**, Mohammadi, E., Zarei, M., Eickhoff, S. B., & Tahmasian, M.* (2020). “Structural and functional neuroimaging of late-life depression: A coordinate-based meta-analysis”. *PsyArXiv*. doi: [10.31234/osf.io/y3n4a](https://doi.org/10.31234/osf.io/y3n4a)

Learned how to do coordinate-based meta-analyses using activation likelihood estimation. Also learned about the different methods of neuroimaging by reading the included studies.

- Ganji, A., Esmaeilzadeh, A., Ghanaei, O., **Saberi, A.***, Taherzadeh, D., Sazgarnia, S., ... Zarifmahmoudi, L. (2017). “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](https://doi.org/10.14196/mjiri.31.124)

Learned how to design and manage a systematic review and meta-analysis.

CONFERENCE ABSTRACTS

Oral Presentations

- **Saberi, A.**, Mohammadi, E., Eickhoff, C.R., Zarei, M., Eickhoff, S.B., Tahmasian, M.* (2019). “A coordinate based meta-analysis on the brain functional and structural changes in late life depression”. *6th Iranian Human Brain Mapping Congress*, Shahid Beheshti University, Tehran, Iran. [**Best Oral Presentation Award**]

Poster Presentations

- **Saberi, A.***, Ghodsi, H.R. (2017). “Neutrophil to lymphocyte ratio as a prognostic marker in glioblastoma multiforme: a systematic review and meta-analysis”. *The 1st International Neuroinflammation Congress*, Ghaem Hospital, Mashhad, Iran.
- **Saberi, A.***, Gazanchian, M., Ghodsi, H.R., Mofatteh, A., Nazarpour, S. (2016). “Cerebral blood volume as a prognostic marker in glioblastoma patients treated with bevacizumab: a systematic review”. *1st International Razavi Cancer Congress*, Razavi Hospital, Mashhad, Iran.
- Acheshmeh, Z., Alizade, H., Ghodsi, H.R., **Saberi, M.A.**, Shahrokhi, Y. (2012). “The effect of stress on working memory in individuals with different personality traits”. *1st Razavi International Anxiety Congress*, Razavi Hospital, Mashhad, Iran.

CURRENT PROJECTS

- “Brain mediators of the vicarious facilitation of pain”, with Dr. Ali Khatibi (manuscript in preparation)
- “Thalamic shape abnormalities in multiple sclerosis patients with fatigue”, with Dr. Jalal Kargar (manuscript in preparation)
- “The ENIGMA-Sleep group: challenges, opportunities, and the road map”, with Dr. Masoud Tahmasian (manuscript in preparation)
- “Significant findings in neuroimaging studies; at what price?”, with Dr. Masoud Tahmasian (manuscript in preparation)
- “Structural and functional neuroimaging of behavioral variant frontotemporal dementia: A coordinate-based meta-analysis”, with Dr. Masoud Tahmasian (manuscript in preparation)

- “Neural correlates of motor learning: an activation likelihood estimation meta-analysis”, with Dr. Ali Khatibi & Dr. Masoud Tahmasian (ongoing data extraction)
- “Structural and functional brain effects of antidepressants in major depressive disorder: an ALE meta-analysis”, with Dr. Masoud Tahmasian (ongoing study selection)
- “Insomnia symptoms and altered functional connectivity of salience network in patients with Alzheimer's disease and mild cognitive impairment”, with Dr. Masoud Tahmasian (ongoing analyses)

TEACHING EXPERIENCE

- *Teaching assistant in NeuromatchAcademy, an international computational neuroscience crash course* (3 weeks), Online interactive course on Zoom. July 2020
- *Meta-analysis of prognostic and diagnostic studies workshop* (1 day), Mashhad University of Medical Sciences, Mashhad, Iran. Sep 2017

HONORS AND AWARDS

- Ranked 157th in National University Entrance Exam (99.96% percentile, among ~400,000 students of natural sciences), Iran. 2011
- Awarded membership of National Elites Foundation, Iran. 2015
- Ranked second in the groups competition of the 10th National Medical Sciences Student Olympiad in Clinical Reasoning, Iran University of Medical Sciences, Tehran, Iran. 2018

PROFESSIONAL MEMBERSHIPS

- Iranian Medical Council, 2019
- ENIGMA-Sleep group, 2020

REFEREES

- Dr Masoud Tahmasian MD, PhD. Assistant Professor, Institute of Medical Science and Technology, Shahid Beheshti University, Tehran, Iran. [m_tahmasian@sbu.ac.ir]
- Dr Ali Khatibi PhD. Senior Research Fellow, Centre of Precision Rehabilitation for Spinal Pain (CPR Spine), University of Birmingham, Birmingham, UK. [khatibim@bham.ac.uk]