

# Amin Saberi

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## EDUCATION

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

## RESEARCH

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

## SKILLS

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- 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

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- **Saberi, A.**, Abdolalizadeh, A., Mohammadi, E., Nahayati, M. A., Bagheri, H., Shekarchi, B., & Kargar, J.\* (2021). Thalamic shape abnormalities in patients with multiple sclerosis-related fatigue. *Neuroreport*, 32(6), 438–442. <https://doi.org/10.1097/WNR.0000000000001616>

*Learned subcortical shape analysis using FSL FIRST and also performing a group-level GLM in practice*

- **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*. <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.*

- Rezaeitalab, F., Esmaili, M.\*, **Saberi, A.**, Vahidi, Z., Emadzadeh, M., Rahimi, H. R., Ramezani, N., & Mirshabani-Toloti, S. Z. (2020). Predictive value of inflammatory markers for functional outcomes in patients with ischemic stroke. *Current Journal of Neurology*, 19(2), 47–52.  
<https://doi.org/10.18502/cjn.v19i2.4940>

*Contributed in statistical analysis and the drafting of the manuscript*

- Ganji, A., Esmailzadeh, A., Ghanaei, O., **Saberi, A.\***, Taherzadeh, D., Sazgarnia, S., Mayabi Joghali, Z., Zirak, M., Abdollah Ramazani, 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.  
<https://doi.org/10.14196/mjiri.31.124>

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

## CONFERENCE ABSTRACTS

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### Oral Presentations

- **Saberi, A.\***, Khatibi A. (2020). “Brain mediators of the vicarious facilitation of pain”. *7<sup>th</sup> Iranian Human Brain Mapping Congress*, Shahid Beheshti University, Tehran, Iran (Online). [**Best Oral Presentation Award**]
- **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”. *6<sup>th</sup> 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 1<sup>st</sup> 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”. *1<sup>st</sup> 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”. *1<sup>st</sup> Razavi International Anxiety Congress*, Razavi Hospital, Mashhad, Iran.

## CURRENT PROJECTS

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- “The ENIGMA-Sleep group: challenges, opportunities, and the road map”, with Dr. Masoud Tahmasian (accepted for publication)

- “Structural and functional neuroimaging of behavioral variant frontotemporal dementia: A coordinate-based meta-analysis”, with Dr. Masoud Tahmasian (submitted)
- “Brain mediators of the vicarious facilitation of pain”, with Dr. Ali Khatibi (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 data extraction)
- “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

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- *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

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- Ranked 157<sup>th</sup> 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 10<sup>th</sup> National Medical Sciences Student Olympiad in Clinical Reasoning, Iran University of Medical Sciences, Tehran, Iran. 2018

## PROFESSIONAL MEMBERSHIPS

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

## REFEREES

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- Dr Masoud Tahmasian MD, PhD. Assistant Professor, Institute of Medical Science and Technology, Shahid Beheshti University, Tehran, Iran. [[m\\_tahmasian@sbu.ac.ir](mailto: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](mailto:khatibim@bham.ac.uk)]