# Majid Saberi

I am a computational neuroscientist specializing in the analysis of neuroimages. My educational background is in physics, and I possess expertise in statistical and computational methodologies. In addition to my conceptual perspective, I am enthusiastic about utilizing my well-honed techniques to investigate cognitive and brain mechanisms, especially at the network level.

## CONTACT


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## SKILLS

Neuroimage Analysis
(sMRI, fMRI, DWI)
Data Analysis and Biostatistics (R)
Programming
(R, Python, Shell, MATLAB)
Machine Learning
Graph Theory
Linux System Administration

## INTERESTS

Cognitive Functions
Neural Disorders
Brain Networks
Brain Connectivity
Complex Networks

## REFERENCES:

Dr. Ali Khatibi
ali.khatibi@gmail.com
Dr. Benjamin Dunkley
ben.dunkley@sickkids.ca
Dr. Gholamreza Jafari
g_jafari@sbu.ac.ir
Dr. Bratislav Misic
bratislav.misic@mcgill.ca
Dr. Reza Khosrowabadi
r_khosroabadi@sbu.ac.ir

## WORK EXPERIENCE

**Research Fellow** **2023 - now**
The Hospital for Sick Children
Description: Developing biomarker for chronic pain and mental health challenges in PTSD
Supervisor: Dr. Benjamin Dunkley

**Postdoctoral Fellow** **2022 - 2023**
University of Toronto
Description: Pain recovery signature based on neuroimaging data
Supervisor: Dr. Massieh Moayedi

**Computational Specialist** **2020 - 2022**
National Brain Mapping Laboratory
Description: Setting-up, developing, and providing HPC services for local neuroscientists

**Research Assistant** **2013 - 2017**
IPM, School of Cognitive Science
Description: Neural level olfactory coding
Supervisor: Dr. Hamed Seyed-allaei

## EDUCATION

**Ph.D. in Cognitive Science** **2015 - 2021**
Shahid Beheshti University
Thesis: Balance alteration of functional brain networks over the lifespan
Supervisors: Dr. Gholamreza Jafari, Dr. Reza Khosrowabadi
Advisors: Dr. Ali Khatibi, Dr. Bratislav Misic

**M.Sc in Solid State Physics** **2012 - 2014**
K.N.Toosi University of Technology

**B.Sc in Physics** **2007 - 2012**
K.N.Toosi University of Technology

## PUBLICATIONS

Saberi, M., Khosrowabadi, R., Khatibi, A., Misic, B., & Jafari, G. (2022). **Pattern of frustration formation in the functional brain network.** *Network Neuroscience*, *6*(4), 1334-1356.
Saberi, M., Khosrowabadi, R., Khatibi, A., Misic, B., & Jafari, G. (2021). **Topological impact of negative links on the stability of resting-state brain network.** *Scientific reports*, *11*(1), 1-14.
Saberi, M., Khosrowabadi, R., Khatibi, A., Misic, B., & Jafari, G. (2021). **Requirement to change of functional brain network across the lifespan.** *PloS one*, *16*(11), e0260091.
Saberi, M., & Seyed-Allaei, H. (2016). **Odorant receptors of Drosophila are sensitive to the molecular volume of odorants.** *Scientific reports*, *6*(1), 1-11.

## CONFERENCE PRESENTATION

**Neuroimaging datasets, studies and collaborations comprising Iranian populations: Current challenges and opportunities**
Annual Meeting of the Organization for Human Brain Mapping, Montreal, 2023
**Balance of resting-state functional networks**
International Conference of Cognitive Science, Tehran, 2020
**Assessing requirement to change the resting-state networks throughout lifespan stages (selected as the best oral presentation)**
7th Iranian Human Brain Mapping Congress, Tehran, 2020
**Olfactory receptors are sensitive to molecular volume**
Conference on Frontiers in Olfaction, Triste, 2017
**Functional areas of the brain have intrinsic temporal variabilities**
3th Iranian Human Brian Mapping Congress, Tehran, 2016

## SERVICES

**Public affairs to boost international collaborations of Iran's neuroimaging community**
**Providing network profiles of healthy development brains**
Figshare Public Data Project, 2021
**Organizing student challenge of age prediction based on morphological features of MRI images**
National Brain Mapping Laboratory, 2020
**Organizing workshop on High-Performance Computing in neuroscience**
National Brain Mapping Laboratory, 2019
**Organizing hands on statistics with R, applied methods in cognitive science**
IPM, School of Cognitive Science, 2017