

# Omid Moazeni

## Phd in Neuroimaging

DoB: 1989



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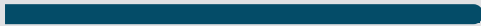
📍 Shiraz, Fars, Iran

### Profile Summary

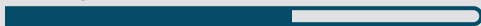
I am an fMRI Imaging Data Analyst with a research interest in the philosophical foundations of neuroscience, including emerging frameworks such as quantum consciousness, and their investigation through advanced neuroimaging techniques. Drawing on a rigorous educational background in Electrical Engineering, I bring advanced competencies in analytical problem-solving, research design, statistical inference, and multimodal data interpretation. I have extensive experience coordinating and leading multidisciplinary scientific collaborations and am Adept at making critical decisions and fostering effective teamwork to address complex scientific challenges.

### Soft Skills

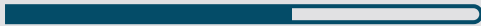
#### Decision Making



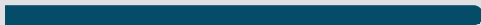
#### Creativity



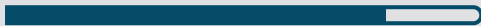
#### Leadership Skills



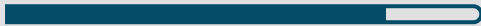
#### Ability to Work in a Team



#### Communication Skills



#### Problem Solving



#### Teamwork



#### Communication



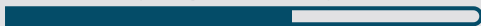
#### Effective Time Management



#### Adaptability



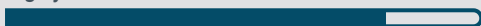
#### Critical thinking and problem solving



#### Detail Oriented



#### Highly Motivated



### Education

#### Bachelor of Electrical Engineering

2013

Branch: Power  
Shiraz University  
Shiraz, Fars, Iran

#### Master of Electrical Engineering

2016

Branch: Power  
Shiraz University  
Shiraz, Fars, Iran

#### PhD in Neuroimaging

2024

Tehran University of Medical Sciences  
Tehran, Iran

### Work Experiences

#### Involvement in the Space Propulsion Research Group (SUN Explorer)

2010 - 2017

Space Propulsion Research Group (SUN Explorer) at Shiraz University  
Shiraz, Fars, Iran

- Contributed to many automated control systems and electronic projects.
- Participated in the design and construction of a high-temperature furnace for material processing (up to approximately 2000°C).
- Collaborated in the design and construction of photovoltaic panels.
- .....

#### Collaboration in Developing the Planning for the Research Institute of Cognitive Science.

2022 - 2022

Shiraz University  
Shiraz, Fars, Iran

#### Participation in Establishing the Center for Philosophy and Fundamental Sciences

2023 - 2023

Shiraz University  
Shiraz, Fars, Iran

#### Supervising Electrical Engineer for Building Electrical Installations

2020 - Present

Fars Province Construction Engineering Organization  
Shiraz, Fars, Iran

## Languages

### English

Reading

Writing

Speaking

Listening

### Arabic


Reading

Writing

Speaking

Listening

## Social Network

 @omidmhfz

## Workshops

### Workshop on "Basic Understanding of Philosophy of Mind"

2020

Institute: Ferdowsi University of Mashhad

### Workshop on "Philosophy of Cognitive Science: 4E Approaches"

2020

Institute: Sharif University of Technology

### Workshop on "Neuroscience and Cognitive Sciences: from Perception to Free Will"

2020

Institute: Sharif University of Technology

### Workshop on "Virtual BCI & Neurotechnology", Spring School

2021

Institute: GTEC

### Workshop on "Brain and Mind"

2021

Institute: Sharif University of Technology Cognitive Science Community

### 10 Day Course on "Internet of Things concerns for implementing Industry 4.0"

2021

Institute: IOT Academy

### Workshop on "Exploring the Human Connectome Project Database"

2022

Institute: Sharif University of Technology Neuroscience Symposium

### Workshop on "A Glance at the Computational Neuroscience: From Single Neuron to Plastic Network"

2022

Institute: Sharif University of Technology Neuroscience Symposium

### Workshop on "fMRI Principles and Practice"

2022

Institute: Sharif University of Technology Neuroscience Symposium

### Workshop on "Basics of Brain MRI with a Clinical Approach"

2022

Institute: Tehran University of Medical Sciences

### Comprehensive Course of "Task Design and Brain MRI Image Analysis"

2022

Institute: NBML

### 10 Day Course on "Big Data, IIoT & Industry 4.0: Approaches & Security Considerations"

2022

Institute: IOT Academy

### 12 Day Workshop on BCI & Neurotechnology, Spring School

2023

Institute: GTEC

### Workshop on "From Single Neuron to Learning in Networks"

2023

Institute: Sharif University of Technology Neuroscience Symposium

### Course on "Analysis of fMRI Imaging Data with CONN Software"

2023

Institute: Connectome Academy

**Workshop on “MRI and fMRI Data Analysis in Freesurfer Software”** 2023

Institute: NBML

**Workshop on “Functional Connectivity”** 2023

Institute: NBML

**Workshop on “Analysis of fMRI Imaging Data with SPM12 Software”** 2023

Institute: Connectome Academy

**Course on “Philosophical Foundations of Artificial Intelligence”** 2023

Institute: Scientific Association of the Faculty of Theology, University of Tehran

**Course on “Mind and Consciousness Research School”** 2023

Institute: Student Scientific Association of Brain and Philosophy of Mind Shahid Beheshti University of Medical Sciences

**Workshop on “Introduction to Tractography with Explore-DTI Software”** 2023

Institute: Interdisciplinary Schools Group

**Workshop on “PWI and MRS”** 2023

Institute: Neuroimaging and Analysis Group (NIAG) of Tehran University of Medical Sciences

**Online Course on "Research in Neuroscience and Cognitive Sciences"** 2023

Institute: Interdisciplinary Schools Group in Collaboration with DPZ Center of Göttingen University

**Course on "Introduction to fMRI Image Processing"** 2023

Institute: Interdisciplinary Schools Group

**Course on "Introduction to Artificial Neural Networks Using Python"** 2023

Institute: Interdisciplinary Schools Group

**72 Hour Virtual Course entitled "Research in Neuroscience and Cognitive Sciences" Focusing on "Introduction to Neuroimaging, Introduction to Signal Processing, Introduction to Scientific Writing and Introduction to Electrophysiology"** 2023

Institute: Interdisciplinary Schools Group

**Course on “Philosophy of Mind Summer School (Preliminary to the International Conference on Philosophy of Consciousness)”** 2023

Institute: Student Scientific Association of Brain and Philosophy of Mind, Shahid Beheshti University of Medical Sciences

**Course on "Introduction to Data Visualization and Dashboarding"** 2023

Institute: Interdisciplinary Schools Group

## Publications

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**Jamali, T., Azizi, H. F., & Moazeni, O. (2025). Exploring Metaphysical Foundations: Avicenna's Insights on Evolution and the Multiverse. *Theology and Science*, 23(2), 395-411.**

2025

Publisher: Taylor & Francis

**Moazeni, O., Northoff, G., & Batouli, S. A. H. (2024). The subcortical brain regions influence the cortical areas during resting-state: an fMRI study. *Frontiers in Human Neuroscience*, 18, 1363125.**

2024

Publisher: Frontiers

This article was selected by the Frontiers Chief Editors for inclusion in the 2024 Editors' Choice eBook, highlighting its significance and impact in the field.

**Moazeni, O. (2024). Governance of twin (dual) resources, accompanied by their evaluation using fMRI neuroimaging technology.**

2024

The Third National Biennial Conference on Information: Emerging Technologies and the Future of Information.

**Jamali, M., Moazeni, O., Batouli, S. A. H. Causal Role of Thalamus: An experimental Confirmation on Avicenna- Bohm Quantum Consciousness Theory**

Under Review Step

**Moazeni, O., Northoff, G., & Batouli, S. A. H. Effective Connectivity in Resting State fMRI Using Transfer Entropy: From Brain to Mind.**

Under Review Step

**Moazeni, O., Northoff, G., & Batouli, S. A. H. Aging Influence Effective Connectivity Patterns in Resting State fMRI.**

Under Review Step

## Presentations

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**Estimation of the Operating Temperature of Photovoltaic Panels Using Genetic Algorithms**

2017

Second International Conference on Electrical Engineering, Allameh Tabataba'i University

**Introduction to Brain Acoustic Imaging Technology**

2022

This presentation was delivered at the conference "The Role of Basic Sciences in Health Promotion," organized by the Southern Branch of the Academy of Medical Sciences, Shiraz, Iran.

## Software Skills

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Microsoft Office

Matlab & Simulink

Python Programming

AVR & Arduino Microcontroller  
Programming

PSPICE

PSCAD

Digsilent

FSL (FMRIB Software Library)

SPM12 Toolbox

REST Toolbox

ExploreDTI

Freesurfer

Mendeley

VOSViewer

## Projects

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### Membership in the Scientific Committee of the Cognitive Division

2023

Health Policy Research Center of Shiraz University of Medical Sciences  
The Conference on the Role of Basic Sciences in Health Promotion

**"Investigation of the changes pattern  
of the functional connectivity of the  
brain areas during resting-state and  
identification of the relevant causal  
functional networks".**

School of Advanced Technologies in Medicine, Tehran University of Medical  
Sciences  
Research Project

## Cultural Activities

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Memorization of the Entire Holy  
Quran

Recipient of Various Awards in  
Provincial and National Holy Quran  
Memorization Competitions

Bachelor's Degree in Quranic  
Sciences and Hadith

Obtained Level 3 Certification in  
Entire Holy Quran Memorization

## Research interests

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**Neurophilosophy**

**Brain-Mind Interaction**

**Quantum Consciousness**

**Computational Neuroscience**

**Brain-Computer Interface**

**Effective Connectivity**

**fMRI imaging and data Analysis**

## Academic References

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### **Dr. Seyed Amir Hossein Batouli**

Assistant Professor of Neuroimaging, Neuroscience and Addiction Studies, School of Advanced Technologies in Medicine, Tehran University of Medical Sciences.

[hosein\\_bat@yahoo.com](mailto:hosein_bat@yahoo.com) and [batouli@sina.tums.ac.ir](mailto:batouli@sina.tums.ac.ir)

### **Prof. Georg Northoff**

Professor of Neuroscience and Psychiatry, Canada Research Chair in Mind, Brain Imaging and Neuroethics, ELJB-CIHR Michael Smith Chair in Neurosciences and Mental Health, Ottawa University.

[Georg.Northoff@theroyal.ca](mailto:Georg.Northoff@theroyal.ca)

### **Prof. Mehdi Golshani**

Emeritus Professor of Fundamental Physics, Sharif University of Technology  
[golshani@sharif.edu](mailto:golshani@sharif.edu) and [mehdigolshani@yahoo.com](mailto:mehdigolshani@yahoo.com)

### **Prof. Mohammad Mohammadi**

Professor of Power Engineering, Power and Control Engineering Group, Electrical and Computer Engineering, Shiraz University

[m.mohammadi@shirazu.ac.ir](mailto:m.mohammadi@shirazu.ac.ir)