

Sadegh Ghaderi

	Feb 2026-Presents	The Neuro-Montreal Neurological Institute-Hospital (MNI, MNH) McConnell Brain Imaging Centre McGill University Postdoctoral Researcher in Neuroimaging and Neuroinformatics I am currently a postdoctoral researcher at The Neuro (Montreal Neurological Institute-Hospital), McGill University, conducting research in the Neuroinformatics for Personalized Medicine Lab.
Education and Experience	Oct 2019 – Jul 2024	Tehran University of Medical Sciences (TUMS) PhD in Neuroimaging A doctoral program dedicated to advancing imaging methodologies for exploring the brain's structure and function, encompassing Imaging Physics and Techniques, Neuroscience and Neuroanatomy, as well as Image Processing and Interpretation. Dissertation: Evaluation of the Structural and Functional Changes of the Brain in Amyotrophic Lateral Sclerosis (ALS) to Identify the Biomarkers of the Disease and Help for a Targeted Treatment
	Sep 2016 – Sep 2019	Tabriz University of Medical Sciences (TbzMed) MSc in Medical Imaging Technology A postgraduate degree focused on advanced imaging technologies, image processing and interpretation, and research in diagnostic radiology. Thesis: Magnetic Resonance Imaging Properties of Gadolinium (iii)-Loaded Aluminosilicate Nanocomposite Containing Doxorubicin with Folic Acid Coating
	Sep 2012 – Jun 2016	Hamadan University of Medical Sciences (UMSHA) BSc in Radiology Focused on diagnostic imaging, radiologic technology, anatomical and physiological sciences, and patient care.
	Sep 2008 – Jul 2012	Diploma in Experimental Sciences Zanyaran High School High School for Elite Students
Research Interests and Keywords	Major: Radiology and Medical Imaging Minor: Neuroimaging Area of Expertise: Magnetic Resonance Imaging (MRI)	▪ Neuroimaging ▪ Magnetic Resonance Imaging (MRI) ▪ Quantitative MRI ▪ MRI Biomarkers ▪ MRI Pathologies ▪ Functional MRI (fMRI) ▪ Diffusion-based Imaging ▪ QSM
Membership	▪ Member of the International Society for Magnetic Resonance in Medicine (ISMRM) ▪ Member of the European Society of Radiology	

Honors and awards

February 2026	E. K. Zavoisky Stipend Award , 2026 ISMRM & ISMRT Annual Meeting & Exhibition, Cape Town, South Africa.
November-December 2025	Winner of Student Innovation Award 2025 International Alliance of ALS/MND Associations (Honored to be recognized globally for my research on Multimodal MRI Neuroimaging in ALS. This award acknowledges my work in identifying widespread brain alterations beyond the motor cortex to facilitate targeted treatments and earlier diagnosis)
August 2025	Selected among the top 200 applicants (top 0.1%) for the USERN Prize 2025 , advancing to the second round following a nomination for high-impact (Q1) publications from a pool of over 200,000 nominees under the age of 40.
Dec 2024	Best Thesis Content Award 2024 (13th Congress) Issued by Basic and Clinical Neuroscience (BCNC) This recognition is dedicated to my PhD research.
Aug 2019	1st Rank of the Ph. D. Exam of Iranian Ministry of Health and Medical Education
Aug 2016	11th Rank of the MSc Exam of Iranian Ministry of Health and Medical Education

Professional

Skills	• Teaching: Proficient in instructing advanced MR Neuroimaging physics and techniques • Software & Toolboxes: Freesurfer, Freeview, SPM, FSL, CAT-12, CONN, ITK-SNAP, STI suite, dicom2nifti, LC Model, ExploreDTI, ClearCanvas, RadiAnt, DICOM Viewer, MRICron, MRICro, MRICroGL • Statistical software: Professional experience with bio-statistical analysis and meta-analysis software (SPSS and STATA) • Programming: MATLAB (Professional), Python (Pre-professional), R (Pre-professional) • Typesetting: LaTeX, Microsoft Word • Operating Systems: Linux (Ubuntu), Windows • Additional Languages: Kurdish (Native), Persian (Native), Arabic (Limited Proficiency)
Activities	• Member of the International Society for Magnetic Resonance in Medicine (ISMRM) • Established reviewer status with major academic publishers subsequent to a review conducted for The Lancet Group and Nature Portfolio- May 2025 • Reviewer for grant from the Netherlands Organization for Health Research and Development (ZonMw) - March 2025 • Reviewer for grant proposal from Parkinson's UK - March 2025 • MR Neuroimaging at Oral and Maxillofacial Radiology, Associated with the 16th International Congress of the Iranian Association of Oral, and Maxillofacial Radiologists - January 2025 • Advanced MRI Teacher Assistant (TA) from 2020 to 2024, associated with the Department of Neuroscience and Addiction Studies, School of

Advanced Technologies in Medicine, Tehran University of Medical Sciences, Tehran, Iran

- **Neuroscience International** | Science Publications: Dubai, Sheikh Zayed Rd, AE | [2024-01 to present | Editorial Board Member]
- Special Issue: **Advanced Magnetic Resonance Neuroimaging Techniques in the Neurodegenerative Process** | Enpress Publisher: El Monte, California, USA | [2024-12-19 | Section Editor]
- Special Issue: **Advanced MR Neuroimaging in Neuroinflammation and Neurodegenerative Diseases** | Enpress Publisher: El Monte, California, USA | [2024-02-29 | Guest Editor]
- **Tumor Mapping Workshop 2023** [Lecturer and Organizer]; Associated with the Neuroimaging & Analysis Group, Tehran University of Medical Sciences, Tehran, Iran
- **DTI Workshop 2022** [Lecturer and Organizer]; associated with the Neuroimaging & Analysis Group, Tehran University of Medical Sciences, Tehran, Iran
- **Basic Principles of Neuroimaging in Neuromuscular Diseases, focusing on Amyotrophic Lateral Sclerosis (ALS) Webinar**; associated with the National Brain Mapping Laboratory
- **fMRI Workshop 2022** [Lecturer and Organizer]; Associated with the Neuroimaging & Analysis Group, Tehran University of Medical Sciences, Tehran, Iran
- **Methods of Cognitive Neuroscience**; associated with the AJUMS Brain & Cognition Association; Jundishapur University of Medical Sciences, June 2021
- **The 10th Interdisciplinary Seminar of Iran's Brain Mapping Student Branch**, associated with the National Brain Mapping Laboratory
- **Advanced Neuroimaging Analysis Course**; [Lecturer and Organizer]; Associated with the Galleny and Neuroimaging & Analysis Group, Tehran University of Medical Sciences, Tehran, Iran
- **MRI (A to Z): physics, technique, and clinics** [Lecturer and Organizer]; associated with the Galleny and Neuroimaging & Analysis Group, Tehran University of Medical Sciences, Tehran, Iran
- **CT scan Physics and techniques, and Radiological Techniques**; Associated with the Kurdistan University of Medical Sciences
- **Member of the research committee**; associated with the Hamadan University of Medical Sciences and Health Services

Publications

Journal publications

1. **Sadegh Ghaderi (CA)**, Sana Mohammadi, Sanjay Kalra, Seyed Amir Hossein Batouli, "Functional Adaptive Longitudinal Reorganization of Superior Parietal Lobule Networks in Amyotrophic Lateral Sclerosis: Evidence Suggesting Compensatory Mechanisms", **Brain Research Bulletin**; <https://doi.org/10.1016/j.brainresbull.2026.111900>
2. **Sadegh Ghaderi (CA)**, Sana Mohammadi, Farzad Fatehi, "Insights From Quantitative Susceptibility Mapping: An Umbrella Review of Multiple Sclerosis", **Health Science Reports**; <https://doi.org/10.1002/hsr2.72003>
3. **Sadegh Ghaderi (CA)**, Ali Fathi Jouzdani, Ali Mohammad Pourbagher-Shahri, Sana Mohammadi, "Subcortical Brain-Age Gaps Reveal Asymmetric Aging Patterns in Parkinson's Disease with Cognitive Impairment", **Brain and Behavior**; <https://doi.org/10.1002/brb3.71202>

4. **Sadegh Ghaderi (CA)**, Sana Mohammadi, Ali Fathi Jouzdani, Amir Mahmoud Ahmadzadeh, "Glymphatic Pathway Dysfunction in Mild Cognitive Impairment: A Systematic Review and Meta-Analysis Using Diffusion Tensor Imaging Along the Perivascular Space", **CNS Neuroscience & Therapeutics**, <https://doi.org/10.1002/cns.70695>
5. Amir Mahmoud Ahmadzadeh, Nima Broomand Lomer, **Sadegh Ghaderi**, Mahdi Afarideh Sani, Girish Bathla, Long Tu, "Differentiating Glioma from Brain Metastasis Using Neurite Orientation Dispersion and Density Imaging: A Systematic Review and Meta-Analysis", **American Journal of Neuroradiology**, <https://doi.org/10.3174/ajnr.A9148>
6. **Sadegh Ghaderi (CA)**, Sana Mohammadi, Sanjay Kalra, "Hippocampal Subfield Integrity and Age-Driven Neural Correlates of Appetite Loss in Amyotrophic Lateral Sclerosis", **Journal of Magnetic Resonance Imaging (JMIR)**, <https://doi.org/10.1002/jmri.70206>
7. **Sadegh Ghaderi (CA)**, Sana Mohammadi, Shima Jahani, "Early Glymphatic Flow Dysfunction in Relapsing-Remitting Multiple Sclerosis: A Meta-Analysis Using DTI-ALPS", **Clinical Neuroimaging**, <https://doi.org/10.1002/neo2.70045>
8. **Sadegh Ghaderi (CA)**, Sana Mohammadi, Minoo Sisakhti, Seyed Amir Hossein Batouli, "Biological Age Prediction of the Cerebellar Vermis in the Human Lifespan", **The Cerebellum**, <https://doi.org/10.1007/s12311-025-01929-5>
9. **Sadegh Ghaderi (CA)**, Sana Mohammadi, Ali Fathi Jouzdani, Amir Mahmoud Ahmadzadeh, Farzad Fatehi, "A Systematic Review and Meta-Analysis on Glymphatic Flow Dysfunction in Parkinson's Disease and Parkinsonism Spectrum", **npj Parkinson's Disease**; <http://dx.doi.org/10.1038/s41531-025-01151-4>
10. Amir Mahmoud Ahmadzadeh, **Sadegh Ghaderi (CA)**, Sana Mohammadi, Nahid Jashire Nezhad, Farzad Fatehi, "Microstructural Hippocampal Alterations in Alzheimer's Disease: A Systematic Review and Meta-Analysis of Diffusion Kurtosis Imaging", **Brain and Behavior**; <https://doi.org/10.1002/brb3.70919>
11. **Sadegh Ghaderi (CA)**, Sana Mohammadi, Farzad Fatehi, "Mapping Divergent Subfield-Specific Hippocampal Degeneration in Mild Cognitive Impairment Continuum: Volumetric, Cognitive, and Genetic Predictors of Accelerated Hippocampal Biological Aging", **CNS Neuroscience & Therapeutics**; <http://dx.doi.org/10.1111/cns.70548>
12. **Sadegh Ghaderi (CA)**, Sana Mohammadi, Farzad Fatehi, Minoo Sisakhti, Seyed Amir Hossein Batouli "Validation of Dementia-Free Status in the Iranian Brain Imaging Database Using ADNI Data: A Transition Point from Middle Age to Older Adulthood", **BMC Neurology**, <https://doi.org/10.1186/s12883-025-04293-3>
13. **Sadegh Ghaderi (CA)**, Sana Mohammadi, Farzad Fatehi, "Magnetic Resonance Neuroimaging in Amyotrophic Lateral Sclerosis: A Comprehensive Umbrella Review of 18 Studies", **Brain Science**, <https://doi.org/10.3390/brainsci15070715>
14. **Sadegh Ghaderi**, Sana Mohammadi, Farzad Fatehi, "Cerebral Blood Flow Alterations in the Precuneus of Alzheimer's Disease Using Arterial Spin Labeling: A Systematic Review and Meta-Analysis", **Brain Research Bulletin**; <https://doi.org/10.1016/j.brainresbull.2025.111444>
15. **Sadegh Ghaderi (CA)**, Sana Mohammadi, Farzad Fatehi, "Glymphatic System Impairment Along the Perivascular Space in Adults with Moyamoya Disease: A Systematic Review and Meta-Analysis", **Heliyon**; <https://doi.org/10.1016/j.heliyon.2025.e43451>
16. **Sadegh Ghaderi (CA)**, Sana Mohammadi, Farzad Fatehi, "A systematic review of diffusion microstructure imaging (DMI): Current and future applications in neurology research", **Brain Disorders**; <https://doi.org/10.1016/j.dscb.2025.100238>
17. Sana Mohammadi, **Sadegh Ghaderi (CA)**, Farzad Fatehi, Sanjay Kalra, Seyed Amir Hossein Batouli, "Pathological Aging of Patients with Amyotrophic Lateral Sclerosis: A Preliminary Longitudinal Study", **Brain and Behavior**; <https://doi.org/10.1002/brb3.70484>
18. **Sadegh Ghaderi (CA)**, Sana Mohammadi, Farzad Fatehi, "Glymphatic Pathway Dysfunction in Severe Obstructive Sleep Apnea: A Meta-Analysis", **Sleep Medicine**; <https://doi.org/10.1016/j.sleep.2025.106528>
19. Sana Mohammadi, **Sadegh Ghaderi (CA)**, Masoud Hoseini Pourasl, Farzad Fatehi, "Prefrontal Cortex Iron Content in Neurodegeneration and Healthy Subjects: A Systematic Review", **Ibrain**; <https://doi.org/10.1002/libra.12195>

20. **Sadegh Ghaderi**, Sana Mohammadi, Farzad Fatehi, "Diamagnetic Signature of Beta-Amyloid (A β) and Tau (t) Tangle Pathology in Alzheimer's Disease: A Review", **Aging Medicine**; <https://doi.org/10.1002/agm2.70006>
21. **Sadegh Ghaderi (CA)**, Sana Mohammadi, Amir Mahmoud Ahmadzadeh, Kimia Darmiani, Melika Arab Bafrani, Nahid Jashirenezhad, Maryam Helfi, Sanaz Alibabaei, Sareh Azadi, Sahar Heidary, Farzad Fatehi, "Thalamic Magnetic Susceptibility (x) Alterations in Neurodegenerative Diseases: A Systematic Review and Meta-analysis of Quantitative Susceptibility Mapping Studies", **Journal of Magnetic Resonance Imaging (JMRI)**; <https://doi.org/10.1002/jmri.29698>
22. **Sadegh Ghaderi**, Farzad Fatehi, Sanjay Kalra, Sana Mohammadi, Seyed Amir Hossein Batouli, "Involvement of the Left Uncinate Fasciculus in the Amyotrophic Lateral Sclerosis: An Exploratory Longitudinal Multi-Modal Neuroimaging and Neuropsychological Study", **Brain Structure and Function**; <https://doi.org/10.1007/s00429-024-02884-3>
23. **Sadegh Ghaderi (CA)**, Sana Mohammadi, Farzad Fatehi "Current Evidence of Arterial Spin Labeling in Amyotrophic Lateral Sclerosis: A Systematic Review", **Clinical Neurology and Neurosurgery**; <https://doi.org/10.1016/j.clineuro.2024.108691>
24. **Sadegh Ghaderi**, Farzad Fatehi, Sanjay Kalra, Ali Asghar Okhovat, Shahriar Nafissi, Sana Mohammadi, Seyed Amir Hossein Batouli, "Metabolite Alterations in the Left Dorsolateral Prefrontal Cortex and its Association with Cognitive Assessments in Amyotrophic Lateral Sclerosis: A Longitudinal Magnetic Resonance Spectroscopy Study", **Brain Research Bulletin**; <https://doi.org/10.1016/j.brainresbull.2024.111125>
25. Sana Mohammadi, **Sadegh Ghaderi**, Farzad Fatehi, "Iron Accumulation/Overload and Alzheimer's Disease Risk Factors in the Precuneus Region: A Comprehensive Narrative Review", **Aging Medicine**; <https://doi.org/10.1002/agm2.12363>
26. Sana Mohammadi, **Sadegh Ghaderi (CA)**, Farzad Fatehi, "Brain Perfusion Alterations in COVID-19 Patients: A Systematic Review of Arterial Spin Labeling Studies", **Brain-X**; <https://doi.org/10.1002/brx2.70007>
27. Sana Mohammadi, **Sadegh Ghaderi**, Farzad Fatehi, "Quantitative Susceptibility Mapping Values Quantification in Deep Gray Matter Structures for Relapsing-Remitting Multiple Sclerosis: A Systematic Review and Meta-Analysis", **Brain and Behavior**; <https://doi.org/10.1002/brb3.70093>
28. Mahdi Mohammadi, Mohammad Ali Oghabian, **Sadegh Ghaderi**, Maryam Jalali, Sharam Samadi, "Volumetric analysis of the hypothalamic subunits in obstructive sleep apnea", **Brain and Behavior**; <https://doi.org/10.1002/brb3.70026>
29. Sana Mohammadi, **Sadegh Ghaderi (CA)**, Hossein Mohammadi, Farzad Fatehi, "Simultaneous Increase of Mean Susceptibility and Mean Kurtosis in the Substantia Nigra as an MRI Neuroimaging Biomarker for Early-Stage Parkinson's Disease: A Systematic Review and Meta-Analysis", **Journal of Magnetic Resonance Imaging (JMRI)**; <https://doi.org/10.1002/jmri.29569>
30. **Sadegh Ghaderi**, Sana Mohammadi, Farzad Fatehi, "Diffusion Tensor Imaging (DTI) Biomarker Alterations in Brain Metastases and Comparable Tumors: A Systematic Review of DTI and Tractography Findings", **World Neurosurgery**; <https://doi.org/10.1016/j.wneu.2024.07.037>
31. Saharnaz Pezeshgi, **Sadegh Ghaderi**, Sana Mohammadi, Narges Karimi, Bentolhoda Ziaadini, Mahdi Mohammadi, Farzad Fatehi, "Diffusion Tensor Imaging Biomarkers and Clinical Assessments in ALS Patients: An Exploratory Study", **Annals of Medicine and Surgery**; <https://doi.org/10.1097/MS9.0000000000002332>
32. **Sadegh Ghaderi**, Farzad Fatehi, Sanjay Kalra, Sana Mohammadi, Seyed Amir Hossein Batouli, "Quantitative Susceptibility Mapping in Amyotrophic Lateral Sclerosis: Automatic Quantification of the Magnetic Susceptibility in the Subcortical Nuclei", **Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration**; <https://doi.org/10.1080/21678421.2024.2372648>
33. Sana Mohammadi, **Sadegh Ghaderi (CA)**, Ali Fathi Jouzdani, Iman Azinkhah, Sanaz Alibabaei, Mobin Azami, Vida Omrani, "Differentiation Between High-Grade Glioma and Brain Metastasis Using Cerebral Perfusion-related Parameters (Cerebral Blood Volume and Cerebral Blood Flow): A Systematic Review and Meta-Analysis of Perfusion-weighted MRI Techniques", **Journal of Magnetic Resonance Imaging (JMRI)**; <https://doi.org/10.1002/jmri.29473>
34. **Sadegh Ghaderi**, Farzad Fatehi, Sanjay Kalra, Sana Mohammadi, Fariba Zemorshidi, Mahtab Ramezani, Omid Hesami, Saharnaz Pezeshgi, Seyed Amir Hossein Batouli, "Volume Loss in the Left Anterior-Superior Subunit of the Hypothalamus in Amyotrophic Lateral Sclerosis Patients", **CNS Neuroscience & Therapeutics**; <https://doi.org/10.1111/cns.14801>

35. Sana Mohammadi, **Sadegh Ghaderi (CA)**, Farzad Fatehi, "Quantitative susceptibility mapping as an early neuroimaging biomarker for amyotrophic lateral sclerosis: A review", **iRadiology**; <https://doi.org/10.1002/ird3.88>
36. **Sadegh Ghaderi**, Sana Mohammadi, Farzad Fatehi, "Calcium accumulation or iron deposition: Delving into the temporal sequence of amyotrophic lateral sclerosis pathophysiology in the primary motor cortex", **Ibrain**; <https://doi.org/10.1002/ibra.12168>
37. **Sadegh Ghaderi (CA)**, Sana Mohammadi, "Utility of Ultra-high-field Magnetic Resonance Imaging in the Detection and Management of Brain Metastases", **Medicine Advances**; <http://dx.doi.org/10.1002/med4.59>
38. **Sadegh Ghaderi**, Seyed Amir Hossein Batouli, Sanjay Kalra, Sana Mohammadi, Farzad Fatehi, "A 65-Year-Old Woman with ALS and Bilateral Precentral Motor Band Sign", **Clinical Case Reports**; <https://doi.org/10.1002/ccr3.9014>
39. Sana Mohammadi, **Sadegh Ghaderi**, Farzad Fatehi, "Putamen Iron Quantification in Diseases with Neurodegeneration: A Meta-analysis of the Quantitative Susceptibility Mapping Technique", **Brain Imaging and Behavior**; <https://doi.org/10.1007/s11682-024-00895-6>
40. Sana Mohammadi, **Sadegh Ghaderi**, Mahdi Mohammadi, Zahra Najafi Asli Pashaki, Rahim Khatyal, Fatemeh Mohammadian, Sahar Mohammadjani, "Thalamic Alterations in Motor Neuron Diseases: A Systematic Review of MRI Findings", **Journal of Integrative Neuroscience**; <https://doi.org/10.31083/j.jin2304077>
41. **Sadegh Ghaderi (CA)**, Mahdi Mohammadi, Fatemeh Sayehmiri, Sana Mohammadi, Arian Tavasol, Masoud Rezaei, Azadeh Ghalyanchi-Langeroudi, "Machine Learning Approaches to Identify Affected Brain Regions in Movement Disorders Using MRI Data: A Systematic Review and Diagnostic Meta-analysis", **Journal of Magnetic Resonance Imaging**; <https://doi.org/10.1002/jmri.29364>
42. Sana Mohammadi, **Sadegh Ghaderi (CA)**, "Parkinson's Disease and Parkinsonism Syndromes: Evaluating Iron Deposition in the Putamen Using Magnetic Susceptibility MRI Techniques - A Systematic Review and Literature Analysis", **Heliyon**; <http://dx.doi.org/10.1016/j.heliyon.2024.e27950>
43. Sana Mohammadi, **Sadegh Ghaderi**, Mahdi Mohammadi, Hamid Ghaznavi, Kamal Mohammadian, "Breast Percent Density Changes in Digital Mammography Pre- and Post- Radiotherapy," **Journal of Medical Radiation Sciences**; <https://doi.org/10.1002/jmrs.788>
44. Sana Mohammadi, **Sadegh Ghaderi (CA)**, Fatemeh Sayehmiri, Mobina Fathi, "Quantitative Susceptibility Mapping for Iron Monitoring of Multiple Subcortical Nuclei in Type 2 Diabetes Mellitus: A Systematic Review and Meta-Analysis", **Frontiers in Endocrinology**; <https://doi.org/10.3389/fendo.2024.1331831>
45. Sana Mohammadi, **Sadegh Ghaderi**, "Post-COVID-19 Conditions: A Systematic Review on Advanced Magnetic Resonance Neuroimaging Findings", **Neurological Sciences**; <https://doi.org/10.1007/s10072-024-07427-6>
46. **Sadegh Ghaderi**, Sana Mohammadi, Nahid Jashire Nezhad, Shaghayegh Karami, Fatemeh Sayehmiri, "Iron Quantification in Basal Ganglia: Quantitative Susceptibility Mapping as a Potential Biomarker for Alzheimer's Disease -A Systematic Review and Meta-Analysis", **Frontiers in Neuroscience**; <https://doi.org/10.3389/fnins.2024.1338891>
47. **Sadegh Ghaderi (CA)**, Sana Mohammadi, "Is Quantifying Iron in the Putamen Important in Neurodegenerative Diseases?", **Neurology and Neurosurgery**; <https://doi.org/10.55828/mnn-11-01>
48. Sana Mohammadi, **Sadegh Ghaderi**, Farzad Fatehi, "MRI Biomarkers and Neuropsychological Assessments of Hippocampal and Parahippocampal Regions Affected by ALS: A Systematic Review", **CNS Neuroscience & Therapeutics**; <http://dx.doi.org/10.1111/cns.14578>
49. Sana Mohammadi, **Sadegh Ghaderi (CA)**, "Advanced magnetic resonance neuroimaging techniques: Feasibility and applications in long or post-COVID-19 syndrome - A review", **Annals of Medicine and Surgery**; <http://dx.doi.org/10.1097/MS9.0000000000001808>
50. **Sadegh Ghaderi**, Sana Mohammadi, Kayvan Ghaderi, Fereshteh Kiasat, Mahdi Mohammadi, "Marker-Controlled Watershed Algorithm and Fuzzy C-means Clustering Machine Learning Approach for Automated Segmentation of Glioblastoma Multiforme from MRI Images in a Case Series," **Annals of Medicine and Surgery**; <http://dx.doi.org/10.1097/MS9.0000000000001756>

51. **Sadegh Ghaderi (CA)**, Sana Mohammadi, Mahdi Mohammadi, Zahra Najafi Asli Pashaki, Mehrsa Heidari, Rahim Khatyal, Rasa Zafari, "A Systematic Review of Brain Metastases from Lung Cancer Using Magnetic Resonance Neuroimaging: Clinical and Technical Aspects", **Journal of Medical Radiation Sciences**; <https://doi.org/10.1002/jmrs.756>
52. Mahdi Mohammadi, Shabnam Banisharif, Fatemeh Moradi, Maryam Zamanian, Ghazal Tanzifi, **Sadegh Ghaderi (CA)**, "Brain Diffusion MRI Biomarkers After Oncology Treatments", **Reports of Practical Oncology and Radiotherapy**; <https://doi.org/10.5603/rpor.98728>
53. **Sadegh Ghaderi**, Sana Mohammadi, Masoud Hoseini Pourasl, Farzad Fatehi, "An Uncommon Presentation of Early Brainstem High-Grade Glioma in a 33-Year-Old Male: A Case Study and Review of Literature", **International Journal of Surgery Case Reports**; <https://doi.org/10.1016/j.ijscr.2023.109152>
54. **Sadegh Ghaderi (CA)**, Sana Mohammadi, "Motor Band Sign or Biomarker", **IRADIOLOGY**; <https://doi.org/10.1002/ird3.43>
55. **Sadegh Ghaderi (CA)**, Sana Mohammadi, "Post-COVID-19 Vaccination and the Brain: A Critical Analysis of CNS MRI Findings", **Trends in Immunotherapy**; <https://doi.org/10.24294/ti.v7.i2.2885>
56. Sana Mohammadi, Mahdi Mohammadi, **Sadegh Ghaderi (CA)**, "Sleep-related regions in neurodegenerative diseases by central nervous system localization using magnetic resonance imaging", **Psychiatry Research: Neuroimaging**; <https://doi.org/10.1016/j.psychresns.2023.111727>
57. Sana Mohammadi, **Sadegh Ghaderi (CA)**, "The role of MRI in detecting and characterizing brain metastases from breast cancer", **Journal of Cellular and Molecular Immunology**; <https://doi.org/10.46439/immunol.2.019>
58. **Sadegh Ghaderi (CA)**, Sana Mohammadi, Mahdi Mohammadi, "Obstructive Sleep Apnea and Attention Deficits: A Systematic Review of Magnetic Resonance Imaging Biomarkers and Neuropsychological Assessments", **Brain and Behavior**; <https://doi.org/10.1002/brb3.3262>
59. **Sadegh Ghaderi**, Seyed Amir Hossein Batouli, Sana Mohammadi, Farzad Fatehi, "Iron Quantification in Basal Ganglia Using Quantitative Susceptibility Mapping in a Patient with ALS: A Case Report and Literature Review", **Frontiers in Neuroscience**; <https://doi.org/10.3389/fnins.2023.1229082>
60. Sana Mohammadi, **Sadegh Ghaderi (CA)**, Kayvan Ghaderi, Mahdi Mohammadi, Masoud Hoseini Pourasl, "Automated segmentation of meningioma from contrast-enhanced T1-weighted MRI images in a case series using a marker-controlled watershed segmentation and fuzzy C-means clustering machine learning algorithm", **International Journal of Surgery Case Reports**; <https://doi.org/10.1016/j.ijscr.2023.108818>
61. **Sadegh Ghaderi**, "Role of MR Neuroimaging in the Future of Neurodegenerative Diseases and Neuromuscular Disorders", **Acta Neurophysiologica**; <https://shorturl.at/dnCJT>
62. Sana Mohammadi, **Sadegh Ghaderi (CA)**, "Motor Band Sign in Motor Neuron Diseases Using Magnetic Resonance Imaging: A Systematic Review", **Acta Neurologica Scandinavica**; <https://doi.org/10.1155/2023/6677967>
63. Mahdi Mohammadi, Sana Mohammadi, Hojatollah Hadizadeh, Mahsa Olfati, Fatemeh Moradi, Ghazal Tanzifi, **Sadegh Ghaderi (CA)**, "Brain Metastases from Breast Cancer Using MRI: A Systematic Review", **Journal of Medical Radiation Sciences**; <https://doi.org/10.1002/jmrs.715>
64. **Sadegh Ghaderi**, Farzad Fatehi, Sanjay Kalra, Seyed Amir Hossein Batouli, "MRI biomarkers for memory-related impairment in amyotrophic lateral sclerosis: a systematic review", **Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration**; <https://doi.org/10.1080/21678421.2023.2236651>
65. **Sadegh Ghaderi**, Asra Karami, Azadeh Ghalyanchi-Langeroudi, Negar Abdi, Seyedeh Shadi Sharif Jalali, Masoud Rezaei, Parastou Kordestani-Moghadam, Shabnam Banisharif, Maryam Jalali, Sana Mohammadi, Mahdi Mohammadi, "MRI findings in movement disorders and associated sleep disturbances", **American Journal of Nuclear Medicine and Molecular Imaging**; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10349287/>
66. **Sadegh Ghaderi**, Sana Mohammadi, Mehrsa Heidari, Seyedeh Shadi Sharif Jalali, Mahdi Mohammadi, "Post-COVID-19 Vaccination CNS Magnetic Resonance Imaging Findings: A Systematic Review", **Canadian Journal of Infectious Diseases and Medical Microbiology**; <https://doi.org/10.1155/2023/1570830>
67. **Sadegh Ghaderi**, Mahsa Olfati, Majid Ghaderi, Hojatollah Hadizadeh, Ghazal Yazdanpanah, Zahra Khodadadi, Asra Karami, Zahra Papi, Negar Abdi, Seyedeh Shadi Sharif Jalali, Rahim Khatyal, Shabnam Banisharif, Fatemeh Bahari, Marziyeh Zarasvandnia, Sana Mohammadi, Mahdi Mohammadi, "Neurological

manifestation in COVID-19 disease with neuroimaging studies", **American Journal of Neurodegenerative Disease**; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10195392/>

68. **Sadegh Ghaderi**, "Reader Response: Teaching NeuroImages: The Motor Band Sign in Amyotrophic Lateral Sclerosis", **Neurology**; <https://n.neurology.org/content/reader-response-teaching-neuroimages-motor-band-sign-amyotrophic-lateral-sclerosis>
69. **Sadegh Ghaderi**, "Fractal Dimension Image Processing for Feature Extraction and Morphological Analysis: Gd3+/13X/DOX/FA MRI Nanocomposite", **Journal of Nanomaterials**; <https://doi.org/10.1155/2023/8564161>
70. Hamid Ghaznavi, Farideh Elahimanesh, Jamil Abdolmohammadi, Meysam Mirzaie, **Sadegh Ghaderi**, "Low-dose radiation therapy: a treatment for pneumonia resulting from COVID-19", **Journal of Radiotherapy in Practice**; <https://doi.org/10.1017/S1460396920001089>
71. **Sadegh Ghaderi**, Kayvan Ghaderi, Hamid Ghaznavi, "Using marker-controlled watershed transform to detect Baker's cyst in magnetic resonance imaging images: A pilot study", **Journal of Medical Signals and Sensors**; https://doi.org/10.4103/jmss.jmss_49_20
72. Hamid Ghaznavi, Zeinab Momeni, **Sadegh Ghaderi**, "Assessment of Thyroid Cancer Risk After Cervical Computed Tomography: The Impact of Bismuth Shielding", **Disease and Diagnosis**; <https://doi.org/10.34172/ddj.2021.14>
73. **Sadegh Ghaderi**, Baharak Divband, Nahide Gharehaghaji, "Magnetic resonance imaging property of doxorubicin-loaded gadolinium/13X zeolite/folic acid nanocomposite", **Journal of Biomedical Physics and Engineering**; <https://doi.org/10.31661/jbpe.v0i0.1254>

Conference / Abstract

01. Accepted as Scientific Oral Presentation at the [64th Annual Meeting of the American Society of Neuroradiology \(ASNR\)](#) - Title: **The Asymmetric Brain: Left-Sided Limbic Aging Predicts Cognitive Decline in Parkinson's Disease**
02. Accepted as Scientific Oral Presentation at the [64th Annual Meeting of the American Society of Neuroradiology \(ASNR\)](#) - Title: **Biological Age Prediction of the Cerebellar Vermis: A Deep Learning MRI Study of Lifespan Trajectories**
03. Accepted as Scientific Oral Presentation at the [64th Annual Meeting of the American Society of Neuroradiology \(ASNR\)](#) - Title: **Impaired Glymphatic Flow in Alzheimer's Disease: A Systematic Review and Meta-Analysis of DTI-ALPS Studies**
04. Electronic Scientific Poster at the [64th Annual Meeting of the American Society of Neuroradiology \(ASNR\)](#) - Title: **Brain Aging is Not Static: A Deep Learning Analysis of Shifting Subcortical Predictors Across the Lifespan**
05. Electronic Scientific Poster at the [64th Annual Meeting of the American Society of Neuroradiology \(ASNR\)](#) - Title: **A Systematic Review and Meta-analysis of Glymphatic Flow Impairment in Mild Cognitive Impairment Using Diffusion Tensor Imaging Along the Perivascular Space**
06. Electronic Scientific Poster at the [64th Annual Meeting of the American Society of Neuroradiology \(ASNR\)](#) - Title: **Differentiating Glioma from Brain Metastasis: Using Neurite Orientation Dispersion and Density Imaging (NODDI) — A Systematic Review and Meta-Analysis**
07. Digital Poster at [2026 ISMRM-ISMRT Annual Meeting and Exhibition](#) - Title: **Beyond Bulk Susceptibility: A Review of Intravoxel Source Separation Methods in QSM**
08. Digital Poster at [2026 ISMRM-ISMRT Annual Meeting and Exhibition](#) - Title: **Compensatory Reorganization of Superior Parietal Lobule Networks in ALS: A Longitudinal Resting-State fMRI Study**
09. Oral Presentations at the [36th International Symposium on ALS/MND](#) - Theme 08 - Clinical Imaging and Electrophysiology - Title: **Multiparametric MRI Neuroimaging Reveals Widespread Brain Alterations in ALS Beyond the Motor Cortex**, <https://symposium.mndassociation.org/wp-content/uploads/2025/08/PROVISIONAL-PROGRAMME-2025-Final.pdf>
10. Accepted as Oral Presentations at the [14th Annual Meeting of the Neuroimaging Society in ALS \(NISALS\)](#) - Title: **Multimodal Neuroimaging Reveals Widespread Brain Alterations in ALS Beyond the Motor Cortex**, https://nisals.org/wp-content/uploads/2025/10/Program-NISALS-2025_20251013_v7.pdf

PhD Dissertation

Evaluation of the Structural and Functional Changes of the Brain in Amyotrophic Lateral Sclerosis (ALS) to Identify the Biomarkers of the Disease and Help for a Targeted Treatment
[[IR.TUMS.MEDICINE.REC.1400.1167](https://ir.tums.medicine.rec.1400.1167)]

Completed Projects

1. **Sadegh Ghaderi**, Farzad Fatehi, Sanjay Kalra, Sana Mohammadi, Seyed Amir Hossein Batouli, "Quantitative Susceptibility Mapping in Amyotrophic Lateral Sclerosis: Automatic Quantification of the

- Magnetic Susceptibility in the Subcortical Nuclei", **Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration**; <https://doi.org/10.1080/21678421.2024.2372648>
2. **Sadegh Ghaderi**, Farzad Fatehi, Sanjay Kalra, Sana Mohammadi, Fariba Zemorshidi, Mahtab Ramezani, Omid Hesami, Saharnaz Pezeshgi, Seyed Amir Hossein Batouli, "Volume Loss in the Left Anterior-Superior Subunit of the Hypothalamus in Amyotrophic Lateral Sclerosis Patients", **CNS Neuroscience & Therapeutics**; <https://doi.org/10.1111/cns.14801>
 3. **Sadegh Ghaderi**, Farzad Fatehi, Sanjay Kalra, Sana Mohammadi, Seyed Amir Hossein Batouli, "Involvements of the Left Uncinate Fasciculus in the Amyotrophic Lateral Sclerosis: An Exploratory Longitudinal Multi-Modal Neuroimaging and Neuropsychological Study", **Brain Structure and Function**; DOI: <https://doi.org/10.1007/s00429-024-02884-3>
 4. **Sadegh Ghaderi**, Farzad Fatehi, Sanjay Kalra, Ali Asghar Okhovat, Shahriar Nafissi, Sana Mohammadi, Seyed Amir Hossein Batouli, "Metabolite Alterations in the Left Dorsolateral Prefrontal Cortex and its Association with Cognitive Assessments in Amyotrophic Lateral Sclerosis: A Longitudinal Magnetic Resonance Spectroscopy Study", **Brain Research Bulletin**; <https://doi.org/10.1016/j.brainresbull.2024.111125>
 5. Sana Mohammadi, **Sadegh Ghaderi (CA)**, Farzad Fatehi, Sanjay Kalra, Seyed Amir Hossein Batouli, "Pathological Aging of Patients with Amyotrophic Lateral Sclerosis: A Preliminary Longitudinal Study", **Brain and Behavior**; <https://doi.org/10.1002/brb3.70484>
 6. **Sadegh Ghaderi (CA)**, Sana Mohammadi, Sanjay Kalra, Seyed Amir Hossein Batouli, "Functional Adaptive Longitudinal Reorganization of Superior Parietal Lobule Networks in Amyotrophic Lateral Sclerosis: Evidence Suggesting Compensatory Mechanisms", **Brain Research Bulletin**; <https://doi.org/10.1016/j.brainresbull.2026.111900>
 7. **Sadegh Ghaderi**, Seyed Amir Hossein Batouli, Sanjay Kalra, Sana Mohammadi, Farzad Fatehi, "A 65-Year-Old Woman with ALS and Bilateral Precentral Motor Band Sign", **Clinical Case Reports**; <https://doi.org/10.1002/ccr3.9014>
 8. **Sadegh Ghaderi**, Seyed Amir Hossein Batouli, Sana Mohammadi, Farzad Fatehi, "Iron Quantification in Basal Ganglia Using Quantitative Susceptibility Mapping in a Patient with ALS: A Case Report and Literature Review", **Frontiers in Neuroscience**; <https://doi.org/10.3389/fnins.2023.1229082>
 9. **Sadegh Ghaderi**, Farzad Fatehi, Sanjay Kalra, Seyed Amir Hossein Batouli, "MRI biomarkers for memory-related impairment in amyotrophic lateral sclerosis: a systematic review", **Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration**; <https://pubmed.ncbi.nlm.nih.gov/37469125/>
 10. Digital Poster at [2026 ISMRM-ISMRT Annual Meeting and Exhibition](#) - Title: **Compensatory Reorganization of Superior Parietal Lobule Networks in ALS: A Longitudinal Resting-State fMRI Study**
 11. Oral Presentations at the [36th International Symposium on ALS/MND](#) - Theme 08 - Clinical Imaging and Electrophysiology - Title: **Multiparametric MRI Neuroimaging Reveals Widespread Brain Alterations in ALS Beyond the Motor Cortex**, <https://symposium.mndassociation.org/wp-content/uploads/2025/08/PROVISIONAL-PROGRAMME-2025-Final.pdf>

12. Oral Presentations at the [14th Annual Meeting of the Neuroimaging Society in ALS \(NiSALS\)](https://www.nisals.org/wp-content/uploads/2025/10/Program-NiSALS-2025_20251013_v7.pdf) - Title: **Multimodal Neuroimaging Reveals Widespread Brain Alterations in ALS Beyond the Motor Cortex**, https://www.nisals.org/wp-content/uploads/2025/10/Program-NiSALS-2025_20251013_v7.pdf

MSc Thesis

Magnetic Resonance Imaging Properties of Gadolinium (iii)-Loaded Aluminosilicate Nanocomposite Containing Doxorubicin with Folic Acid Coating

[IR.TBZMED.REC.1397.317]

1. **Sadegh Ghaderi**, Baharak Divband, Nahide Gharehaghaji, "Magnetic resonance imaging property of doxorubicin-loaded gadolinium/13X zeolite/folic acid nanocomposite", **Journal of Biomedical Physics and Engineering**; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7036414/>
2. **Sadegh Ghaderi**, "Fractal Dimension Image Processing for Feature Extraction and Morphological Analysis: Gd3+/13X/DOX/FA MRI Nanocomposite", **Journal of Nanomaterials**; <https://doi.org/10.1155/2023/8564161>

Advanced DTI

The evaluation of the relation between 6-month clinical prognosis in ALS patients and DTI scan reports

[IR.TUMS.MEDICINE.REC.1399.930]

1. Saharnaz Pezeshgi, **Sadegh Ghaderi**, Sana Mohammadi, Narges Karimi, Bentolhoda Ziaadini, Mahdi Mohammadi, Farzad Fatehi, "Diffusion Tensor Imaging Biomarkers and Clinical Assessments in ALS Patients: An Exploratory Study", **Annals of Medicine and Surgery**; <https://doi.org/10.1097/MS9.0000000000002332>

Tissue Density

Investigation of changes in breast tissue density in women with breast cancer by digital mammography, before and after treatment

[IR.UMSHA.REC.1398.434]

1. Sana Mohammadi, **Sadegh Ghaderi**, Mahdi Mohammadi, Hamid Ghaznavi, Kamal Mohammadian, "Breast Percent Density Changes in Digital Mammography Pre- and Post- Radiotherapy", **Journal of Medical Radiation Sciences**; <https://doi.org/10.1002/jmrs.788>

Perfusion Software

Design and Implementation of a Software for Measurement of Brain Perfusion Using an Optimized Model

[IR.TUMS.MEDICINE.REC.1400.863]

Starting in:
December 2025

- Reviewer for the [Acta Neurologica Scandinavica](#) (Q2, Indexed in ISI, Scopus, PubMed, Embase) - December 2025
- Reviewer for the [Journal of Neuroradiology](#) (Q1, Indexed in ISI, Scopus, PubMed, Embase)
- Reviewer for the [Journal of Psychiatric Research](#) (Q2, Indexed in ISI, Scopus, PubMed, Embase)

November 2025

- Reviewer for the [Frontiers in Neuroimaging](#) (Indexed in ESCI, Scopus, PubMed, DOAJ)

September 2025

- Reviewer for the [Neuroimage: Reports](#) (Indexed in Scopus, PubMed, DOAJ)

Peer Review Activities

[ORCID](#)
[CLARIVATE](#)

August 2025	Reviewer for the npj Parkinson's Disease (Q1, Indexed in ISI, Scopus, PubMed, Embase)
July 2025	- Reviewer for the Imaging Neuroscience (Indexed in ESCI, PubMed, Scopus) - Reviewer for the GeroScience (Q1, Indexed in ISI, Scopus, PubMed, Embase)
Jun 2025	- Reviewer for the Brain Research (Q3, Indexed in ISI, Scopus, PubMed, Embase) - Reviewer for the Psychopharmacology (Q2, Indexed in ISI, Scopus, PubMed, Embase) - Reviewer for the Healthcare (Q2, Indexed in ISI, Scopus, PubMed, DOAJ)
May 2025	- Reviewer for the eBioMedicine (Q1, Indexed in ISI, Scopus, PubMed, Embase) - Reviewer for the Journal of Medical Virology (Q1, Indexed in ISI, Scopus, PubMed, Embase) - Reviewer for the Radiology Case Reports (Scopus, Embase, DOAJ) - Reviewer for the Brain Communications (Indexed in ESCI, Scopus, PubMed)
Mar 2025	- Proposal Grant Reviewer for ZonMw - Reviewer for the Frontiers in Neurology (Q2, Indexed in ISI, Scopus, PubMed, Embase, DOAJ) - Reviewer for the BMC Neurology (Q3, Indexed in ISI, Scopus, PubMed, Embase, DOAJ) - Reviewer for the Human Brain Mapping (Q1, Indexed in ISI, Scopus, PubMed, Embase) - Proposal Grant Reviewer for Parkinson's UK - Reviewer for the Journal of Neuro-Oncology (Q2, Indexed in ISI, Scopus, PubMed, Embase)
Feb 2025	- Reviewer for the Brain and Behavior (Q2, Indexed in ISI, Scopus, PubMed, Embase) - Reviewer for the Computers in Biology and Medicine (Q1, Indexed in ISI, Scopus, PubMed, Embase)
Dec 2024	- Reviewer for the Neuroradiology (Q2, Indexed in ISI, Scopus, PubMed, Embase) - Reviewer for the Scientific Reports (Q1, Indexed in ISI, Scopus, PubMed, Embase) - Reviewer for the Clinical Radiology (Q2, Indexed in ISI, Scopus, PubMed, Embase) - Reviewer for the IBRO Neuroscience Reports (Indexed in ESCI (ISI), Scopus, PubMed, DOAJ)
Nov 2024	Reviewer for the Brain Sciences (Q3, Indexed in ISI, Scopus, PubMed, Embase)

Oct 2024	▪ Reviewer for the Physics and Imaging in Radiation Oncology (Indexed in ESCI (ISI), Scopus) ▪ Reviewer for the Measurement Science Review (Q4, Indexed in ISI, Scopus, DOAJ) ▪ Reviewer for the Archives of Medical Science (Q1, Indexed in ISI, Scopus, PubMed, Embase, DOAJ) ▪ Reviewer for the Symmetry (Q2, Indexed in ISI, Scopus, DOAJ) ▪ Reviewer for the Cancer Medicine (Q2, Indexed in ISI, Scopus, PubMed, Embase, DOAJ) ▪ Reviewer for the European Journal of Radiology (Q1, Indexed in ISI, Scopus, PubMed, Embase)
Sep 2024	▪ Reviewer for the Neuroimage: Clinical (Q2, Indexed in ISI, Scopus, PubMed, Embase) ▪ Reviewer for the Journal of Magnetic Resonance Imaging (Q1, Indexed in ISI, Scopus, PubMed, Embase) ▪ Reviewer for the Diagnostics (Q1, Indexed in ISI, Scopus, PubMed, Embase) ▪ Reviewer for the European Journal of Neurology (Q1, Indexed in ISI, Scopus, PubMed, Embase)
Jul 2024	▪ Reviewer for the Brain Research Bulletin (Q2, Indexed in ISI, Scopus, PubMed, Embase)
May 2024	▪ Reviewer for the Psychiatry Research: Neuroimaging (Q3, Indexed in ISI, Scopus, Embase) ▪ Reviewer for the Metabolism - clinical and experimental (Q1, Indexed in ISI, Scopus, PubMed)
Apr 2024	▪ Reviewer for the CNS Oncology (Indexed in Scopus, PubMed, Embase) ▪ Reviewer for the iScience (Q1, Indexed in ISI, Scopus, PubMed)
Mar 2024	▪ Reviewer for the BMJ Open (Q1, Indexed in ISI, Scopus, PubMed) ▪ Reviewer for the Psychology Research and Behavior Management (Q1, Indexed in ISI, Scopus, PubMed)
Feb 2024	▪ Reviewer for the Journal of Integrative Neuroscience (Q3, Indexed in ISI, Scopus, PubMed)
Jan 2024	▪ Reviewer for the Heliyon (Q1, Indexed in ISI, Scopus, PubMed) ▪ Reviewer for the Medical Science Monitor (Q3, Indexed in ISI, Scopus, PubMed)
Dec 2023	▪ Reviewer for the Brain Disorders (Indexed in DOAJ)
Nov 2023	▪ Reviewer for the Annals of Medicine and Surgery (Indexed in ISI, Scopus, PubMed)
Oct 2023	▪ Reviewer for the Brain Imaging and Behavior (Q2, Indexed in ISI, Scopus, PubMed, Embase)

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|----------|---|
| Sep 2023 | <ul style="list-style-type: none"> ▪ Reviewer for the Basic and Clinical Cancer Research (Indexed in DOAJ) ▪ Reviewer for the Cureus Journal of Medical Science (Indexed in ESCI, Scopus, Embase) |
| Aug 2023 | <ul style="list-style-type: none"> ▪ Reviewer for the International Journal of Surgery Case Reports (Indexed in ESCI, Scopus, PubMed) |
| Feb 2023 | <ul style="list-style-type: none"> ▪ Reviewer for the Iranian Journal of Radiology (Q4, Indexed in ISI, Scopus, Embase) |
| Jan 2023 | <ul style="list-style-type: none"> ▪ Reviewer for the Frontiers in Biomedical Technologies (Indexed in Scopus, DOAJ) |