



Resume

Personal and Job information

Name: Asra

Surname: Karami

Nationality: Iranian

Scholar:

https://scholar.google.com/citations?hl=en&view_op=list_works&gmla=ALUCkoVrs37pKEfokBSk4devQDCVaxULiXNzVc2mRG9HfXh_USebH2RzjqPZWwAlQzMClA9T1PirqURiT2Y7Ow-Uw3imSH_QIo-ObpPUQ4o&user=X1JVi24AAAAJ

Workplace address: Kurdistan - Qorveh – Shahid Beheshti Hospital

Affiliation: Department of Molecular Imaging, Faculty of Advanced Technologies in Medicine, Iran University of Medical Sciences (IUMS), Tehran, Iran

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Educational background

Certificate Degree	Field of Specialization	Name of Institution Attended	Year of Entry	Year of Exited
<i>PH.D student</i>	<i><u>Medical imaging</u></i>	<i>Iran University of Medical Sciences</i>	<i><u>2022</u></i>	<i><u>Ongoing process</u></i>
<i>M.Sc</i>	<i><u>Medical imaging</u></i>	<i>Iran University of Medical Sciences</i>	<i><u>2019</u></i>	<i><u>2022</u></i>
<i>BSc</i>	<i><u>Radiology</u></i>	<i>Kurdistan University of Medical Sciences</i>	<i><u>2011</u></i>	<i><u>2015</u></i>

Thesis title in M. Sc

Investigating resting-state brain networks, during breathing of inert air and air mixed with odor, using MRI

Thesis title in Ph. D Student

Improving the accuracy of detection and segmentation of multiple sclerosis lesions by using deep learning algorithms

Honors

- ✓ **Winning the title of the best article in 21th Iranian Congress of Radiographical Sciences in 2024**
- ✓ **Passing the training PhD course with a grade 19.72**
- ✓ **1st rank in PhD Entrance Exam in Medical Imaging in 2022**
- ✓ **Member of the Brilliant Talents Committee at Iran University of Medical Sciences**
- ✓ **Rank 7 in the country in the senior entrance exam in medical imaging**
- ✓ **Member of the Brilliant Talents Committee at Kurdistan University of Medical Sciences in 2014**

Research Interests

- ✓ **Functional magnetic resonance imaging(fMRI)**
- ✓ **Molecular imaging (PET-SPECT-MRI)**
- ✓ **Medical image processing**
- ✓ **Image Segmentation**
- ✓ **Contrast agents in medical images**
- ✓ **Connectivity in brain networks**
- ✓ **Neuroimaging**
- ✓ **Image analysis software**

Professional Activities and Memberships

Education

Title	College	University
Internship 1	Paramedical	Kurdistan university of medical sciences
Internship 3	Paramedical	Kurdistan university of medical sciences
TA in Image analysis unit fMRI	Medical	Iran university of medical sciences

Positions and work experiences

- ✓ work experience in the imaging department (MRI, radiography and CT) in Shahid Beheshti Qorve Hospital
- ✓ work experience in the imaging department, including CT scan and radiography in Sina Kamiyaran Hospital
- ✓ Work experience in the imaging department of the Faculty of Dentistry in Kurdistan university of medical sciences
- ✓ work experience in the imaging department radiography and CT in Besat Hospital

Conferences

- ✓ 39nd Iranian congress of radiology and 21th Iranian Congress of Radiographical Sciences (Oral presentation: Winning the title of the best article)
- ✓ 12th Neuroscience Congress Basic and Clinical (poster presentation)
- ✓ The first national conference and festival of modern technologies of medical science education "Sheikh Al Rais"(Oral presentation)
- ✓ 38nd Iranian congress of radiology and 20th Iranian Congress of Radiographical Sciences
- ✓ 5th Iranian Symposium on Brain Mapping Updates (ISBM2021)
- ✓ 8th Neuroscience Congress Basic and Clinical
- ✓ 32nd Iranian congress of radiology (poster presentation)

Instructor of workshops

- ✓ Health physics in medical imaging
- ✓ Protection against radiation and magnetic fields for patients and personnel
- ✓ Magnetic Resonance Imaging Agents (journal club)
- ✓ Imaging Myocardial Metabolism (journal club)

Skills and courses completed

- ✓ **MATLAB**
- ✓ **Python**
- ✓ **Mimics (3D medical image segmentation software)**
- ✓ **Image j (open-source software for processing and analyzing scientific images)**
- ✓ **Conn (functional connectivity toolbox)**
- ✓ **FSL**
- ✓ **SPM**
- ✓ **3D Slicer**
- ✓ **ICDL (Seven skills)**
- ✓ **Image analysis fMRI**
- ✓ **TARQUIN (for the quantities of molecules present in MR spectroscopy data)**
- ✓ **Languages English: have a degree MSRT(60) and MHLE(55)**

Proposals

- ✓ **Provision of an MRI Image Dataset of Multiple Sclerosis Patients Approved by Specialists for Using in Artificial Intelligence Algorithms**
- ✓ **Improving the accuracy of detection and segmentation of multiple sclerosis lesions by using deep learning algorithms**
- ✓ **Assessing Physician Awareness of Ionizing Radiation Doses from Chest CT Scans During COVID-19 in Sanandaj Educational Centers**
- ✓ **surveying the rate of radiographic repeat and its cause in radiography centers (tohid and besat hospital) in year 2014**
- ✓ **Study of knowledge, attitude and practice of radiology workers in Sanandaj city in radiation protection in 2014**

Articles

- ✓ **An fMRI-based investigation of the effects of odors on the functional connectivity network underlying the working memory**
- ✓ **Neurological manifestation in COVID-19 disease with neuroimaging studies**
- ✓ **MRI findings in movement disorders and associated sleep disturbances**
- ✓ **Evaluation of level of knowledge, attitude and performance of Radiologists in Sanandaj city regarding radiation protection in 2014**

Ongoing works

- ✓ **Participation in the translation of the "small animal imaging book"**
- ✓ **Participation in Writing a review article "The application of artificial intelligence in molecular imaging"**
- ✓ **Participation in Writing a review article "The performance of different software in the segmentation of MS lesions"**
- ✓ **Collecting a large dataset for MS patients**
- ✓ **Participate in the challenge detection of MS from MRI images**
- ✓ **Investigating resting-state brain networks, during breathing of inert air and air mixed with odor, using MRI (Article under review)**
- ✓ **Participation in Writing article "Machine Learning and Biomarker Analysis for ovarian cancer prediction: A Comprehensive Review"**
- ✓ **Participation in Writing article "Functional MRI finding in the Brian of patients recovered from COVID-19: A Systematic Review"**

Outline of Future plans

- ✓ **Learning new Software for Image analysis**
- ✓ **Participation in international scientific congresses**
- ✓ **Investigating the application of different deep learning algorithms in detection and segmentation in medical images**
- ✓ **Investigating different methods of image processing in order to increase the quality of images**
- ✓ **Publishing more papers**
- ✓ **Research for the newest scientific finding in the field of medical imaging**