Farzad Alizadeh

	raizau Alizaueli		
	EDUCATION		
	SICS TEHRAN UNIVERSITY OF MEDICAL SCIENCES (TUMS) Tehran, Iran	GPA: 4/4 Sep 2021	
BS IN PHYSICS SHIRA	AZ UNIVERSITY Shiraz, Iran AWARDS AND HONORS	Jul 2004	
 Ranked 2nd 	among my graduating class	Sep 2020	
	n National Brain Mapping Laboratory Challenge:	3cp 2020	
"Predicting age of healthy subjects based on morphological features of structural MRI images" (NBML)		Jan 2021	
 Ranked 8th a 	mong ~1100 participants in Medical Physics entrance examination	2018	
	RESEARCH INTERESTS		
DATA SCIENCE NEUROSCINCE	functional MRI • Resting State fMRI • ASL Perfusion • DTI • DWI • MRS • Medical Data Analysis • Deep Learning • Machine Learning • Image Processing • Sig • Neurodegenerative diseases • AD • PD • ADHD • ASD Glioma • Prostate Cancer • Breast Cancer	nal Processing	
	ACADEMIC PROJECTS		
DEMENTIA	 Implementing 3D convolutional neural networks (fed by independent component analysis features extracted from resting state functional MRI) in Python Implementing 1D convolutional neural networks (fed by blood oxygen level dependent signals of resting state fMRI) in Python 		
GLIOBLASTOMA	· · · ·	blastoma tissue characterization with deep learning and the brain magnetic resonance ctroscopic (MRS) data; supervised, semi supervised, and unsupervised glioblastoma brain MRS als classification: a deep learning methodology	
BRAIN FUNCTIONAL CONNECTIVITY(FC)	 Extracting and analyzing FC, based on graph theory to classify Alzheimer's discognitive impairment subjects 	ease from mild	
BRAIN AGE PREDICTION	Machine learning-based prediction of age from MRI images		
SCIENTIFIC WEBINARS	 Organizing a series of scientific webinars in Iranian Chapter of International Son Resonance in Medicine (IR-ISMRM) 	ociety for Magnetic	
	WORKSHOPS		
Artificial Neural Networks TUMS TEHRAN, IRAN		Mar 2020	
Machine Learning with Python TUMS TEHRAN, IRAN		May 2020	
· -	ython TUMS TEHRAN, IRAN	Jul 2020	
K-wave workshop (Mi	ATLAB toolbox for simulation of ultrasound)		

Artificial Neural Networks TUMS TEHRAN, IRAN	Mar 2020
Machine Learning with Python TUMS TEHRAN, IRAN	May 2020
Deep Learning with Python TUMS TEHRAN, IRAN	Jul 2020
K-wave workshop (MATLAB toolbox for simulation of ultrasound)	
TUMS Preclinical Core Facility TEHRAN, IRAN	May 2019
MCNPX workshop (Monte Carlo N-Particle Transport Code)	
TUMS Preclinical Core Facility TEHRAN, IRAN	Mar 2019

SKILLS

COMPUTER SKILLS • Python Programming • LINUX • Keras • Scikit-learn • TensorFlow • Pytorch • OpenCV **SOFTWARES SKILLS** • FSL • FREESURFER • COMSOL MULTI PHYSICS LANGUAGE SKILLS • IELTS: will be taken on Jan 2022

CONFERENCES

First National Conference on Artificial Intelligence in Medical Imaging | NBML | 2nd - 5th Nov 2019 | TEHRAN, IRAN National Congress on Cognitive and Behavioral Neurology & Dementia | TUMS | 2nd - 4th Oct 2019 | MILAD TOWER, TEHRAN, IRAN

PUBLICATIONS

- Alizadeh F, Homayoun H, Batouli SAH, Noroozian M, Saligheh Rad HR. Deep Learning Study of BOLD signals in Alzheimer's disease continuum: A Multi Brain Atlas Study. 2021;
- Alizadeh F, Homayoun H, Batouli SAH, Noroozian M, Sodaie F, Salari HM, Kazerooini AF, Saligheh Rad HR. Differential Diagnosis Among Alzheimer's Disease, Mild Cognitive Impairment, and Normal Subjects Using Resting-State fMRI Data Extracted from Multi Subject Dictionary Learning Atlas: A Deep Learning-Based Study. 2021, Frontiers in Biomedical Technologies.
- Alizadeh F, Fathi Kazerooni A, Bahrampour H, Mobarak Salari H, Saligheh Rad HR. Tumorous Tissue Characterization in Diffuse Glioma Based on 1H-MRS Data Employing 1D Convolutional Neural Networks (Poster). 2021 ISMRM & SMRT Annual Meeting & Exhibition.