Yohan **Jun**

POSTDOCTORAL RESEARCH FELLOW, PH.D.

Athinoula A. Martinos Center for Biomedical Imaging, Bldg 149 13th St Rm 2301, Charlestown MA 02129

Research Interests

Advanced Neuroimaging with MRI Ad Computational Algorithms for Medical Imaging In Al for Automatic Diagnosis of Brain Disorders Au

Accelerated Brain MRI, Rapid Distortion-Free Diffusion MRI, Rapid Quantitative MRI Inverse Problem, MR Image Reconstruction, Self-Supervised/Zero-Shot Learning Automatic Diagnosis of Brain Tumors Using Deep Learning Algorithms

Education _____

Yonsei University	Seoul, S.Korea
Ph.D. in Electrical & Electronic Engineering	Mar. 2016 - Feb. 2022
 Thesis: "Model-based Deep Learning Reconstruction Methods for Fast Magnetic Resonance Imaging" Scholarship: Brain Korea 21 Plus Outstanding Student Fellow Scholarship of Korea Research Foundation Award: Best Graduate Student Paper Award 	
Yonsei University	Seoul, S.Korea
B.S. IN ELECTRICAL & ELECTRONIC ENGINEERING	Mar. 2012 - Feb. 2016
Scholarship: National Scholarship for Science & Engineering of Korea Student Aid Foundation	
Research Experience	
Athinoula A. Martinos Center for Biomedical Imaging	Boston, US
Research Fellow @ Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital	Mar. 2022 - Mar.
(MGH), and Harvard Medical School (HMS), Advisor: Prof. Berkin Bilgic, Prof. Michael Gee	Mar. 2022 - Now
 Subspace Reconstruction for Multiparametric Mapping: Developed a zero-shot deep subspace reconstruction network (Zero-DeepSub) for fast multipara Rapid Quantitative MRI: Developed a self-supervised learning scheme for multiparametric mapping using QALAS (SSL-QA) Rapid and Motion-Robust Fetal and Pediatric Imaging 	ametric quantiative MRI. ALAS).
 Fast Quantitative/Synthetic Imaging: Developed a fast and motion-robust quantitative and synthet 	tic fetal/pediatric MR imaging.
 Highly Accelerated Distortion-Free Diffusion MRI Fast/distortion-free dMRI: Developed a fast and distortion-free diffusion MRI sequence (PRIME) usi multi-echo acquisition scheme. 	ng a phase-reversed interleaved
Yonsei University	Seoul, S.Korea
Research Assistant @ Medical Artificial Intelligence Lab, Advisor: Prof. Dosik Hwang	Jan. 2016 - Feb. 2022
 Accelerating MR Imaging with Deep Learning Techniques Accelerating MRI: 	
 Developed a joint deep model-based MR image and coil sensitivity reconstruction network (Join Validated domain-transform manifold learning in phase-encoding direction for accelerating carter Implemented cross-domain CNNs (KIKI-net) for reconstructing undersampled MR images. 	t-ICNet) for fast MRI. esian MRI (DOTA-MRI).
 Rapid MR Parameter Mapping: Developed a deep model-based MR parameter mapping network (DG Parallel Imaging in TOF-MRA: Developed a deep multistream CNNs (DPI-net) for parallel imaging in 	DPAMINE) for a fast T1 mapping. TOF-MRA.
 Computer-aided Diagnosis (CAD) for Brain Tumors 	

- 1. Metastasis: Developed a deep learning model for automatic detection and segmentation of brain metastases.
- 2. Meningioma: Implemented meningioma segmentation and grading models using two-stage deep learning models.
- 3. Glioblastoma: Developed an automatic deep-learning-based segmentation model for glioblastoma analysis.
- MRI Applications
 - 1. Standardization of Quantitative MRI: Developed a deep-learning-based model for standardization of MOLLI T1 mapping.
 - 2. Increasing MRI SNR: Analyzed a denoising method based on tissue characteristics for High-SNR multiple T2(*)-contrast MRI.
 - 3. MRI-compatible Sensor: Validated a megahertz-wave-transmitting conducting polymer electrode (MRI-compatible pressure sensor).

Philips Korea

INTERNSHIP

• Intern (Medical Image Generation using Deep Learning Algorithms)

Philips Korea & Gyrotools

COURSE CERTIFICATE

• Philips Pulse Programming Course

Teaching Experience _____

Yonsei University	Seoul, S.Korea
Guest Lecturer, Teaching Assistant	Sep. 2021 - Dec. 2021
 Introduction Artificial Intelligence Presented a lecture on principles of deep learning and convolutional neural networks 	
Guest Lecturer, Teaching Assistant	Mar. 2021 - Jun. 2021
 Medical Imaging Artificial Intelligence Presented a lecture on MR image reconstruction using deep learning methods 	
Guest Lecturer, Teaching Assistant	Sep. 2020 - Dec. 2020
 Medical Artificial Intelligence Presented a lecture on principles of MRI and reconstruction methods for fast MRI 	
Teaching Assistant	Mar. 2018 - Jun. 2018
 Introduction to Bioengineering for Electrical and Electronic Engineering 	
Teaching Assistant	Mar. 2017 - Jun. 2017
Electrical and Electronic Engineering Capstone Design	

Honors & Awards _

INTERNATIONAL

2024 1st Place Winner, Best Oral Presentation, The ISMRM 32nd Annual Meeting, Diffusion Study Group 2024 ISMRM Annual Meeting Program Committee (AMPC) Selected Abstract (Top 1%), The ISMRM 32nd Annual 2024 ISMRM Summa Cum Laude, The ISMRM 32nd Annual Meeting 2022-2023 Distinguished Reviewer, IEEE Transactions on Medical Imaging (IEEE TMI) 2023 ISMRM Summa Cum Laude, The ISMRM 31st Annual Meeting Toro 2021 1st Rank, Cross-Modality Domain Adaptation for Medical Image Segmentation (crossMoDA-2021 challenge) Virtua 2021 ISMRM Magna Cum Laude (1), The ISMRM 29th Annual Meeting Virtua 2020 ISMRM Magna Cum Laude (2), The ISMRM 29th Annual Meeting Virtua 2020 ISMRM Summa Cum Laude, The ISMRM 29th Annual Meeting Virtua 2020 ISMRM Summa Cum Laude, The ISMRM 29th Annual Meeting Virtua 2020 ISMRM Summa Cum Laude, The ISMRM 29th Annual Meeting Virtua 2020 ISMRM Summa Cum Laude, The ISMRM 29th Annual Meeting Virtua 2020 ISMRM Summa Cum Laude, The ISMRM 29th Annual Meeting Virtua 2020 Breeconstruction Virtua Virtua 2020 ISMRM Summa Cum Laude, The ISMRM 28th Annual Meeting Virtua 2021 <td< th=""><th>2024</th><th>ISMRM Junior Fellow. The ISMRM 32nd Annual Meeting</th><th>Sinaapore</th></td<>	2024	ISMRM Junior Fellow. The ISMRM 32nd Annual Meeting	Sinaapore
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DOMESTIC 2021 Excellence Award, Medical Artificial Intelligence Datathon 2021, Ministry of Science and ICT and National Information Society Agency Set 2021 Excellence Award, Hackathon of Development of AI-based Image Diagnosis using Medical Big Data 2021, Korea Testing Laboratory (KTL) Set 2021 Best Paper Award, Graduate Student Paper Award, Yonsei University Set 2019 Participation Prize, Samsung Humantech Paper Award (first author) Set 2019 1st Rank and Grand Prize, HeLP Challenge 2018, Brain Tumor Segmentation Contest Set 2018 Participation Prize, Samsung Humantech Paper Award (co-author) Set 2019 St Rank and Grand Prize, HeLP Challenge 2018, Brain Tumor Segmentation Contest Set 2018 Participation Prize, Samsung Humantech Paper Award (co-author) Set 2017 Grand Prize, Yonsei Junior Convergence Science Set	2017	ISMRM Summa Cum Laude, The ISMRM 25th Annual Meeting	Hawaii, US
2021Excellence Award, Medical Artificial Intelligence Datathon 2021, Ministry of Science and ICT and National Information Society AgencySee2021Excellence Award, Hackathon of Development of AI-based Image Diagnosis using Medical Big Data 2021, Korea Testing Laboratory (KTL)See2021Best Paper Award, Graduate Student Paper Award, Yonsei UniversitySee2019Participation Prize, Samsung Humantech Paper Award (first author)See2019Ist Rank and Grand Prize, HeLP Challenge 2018, Brain Tumor Segmentation ContestSee2018Participation Prize, Samsung Humantech Paper Award (co-author)See2017Grand Prize, Yonsei Junior Convergence ScienceSee	Domest	IC	
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2018Participation Prize, Samsung Humantech Paper Award (co-author)Se2017Grand Prize, Yonsei Junior Convergence ScienceSe	2019	1st Rank and Grand Prize, HeLP Challenge 2018, Brain Tumor Segmentation Contest	Seoul, S.Korea
2017 Grand Prize, Yonsei Junior Convergence Science	2018	Participation Prize, Samsung Humantech Paper Award (co-author)	Seoul, S.Korea
	2017	Grand Prize, Yonsei Junior Convergence Science	Seoul, S.Korea

Seoul, S.Korea Oct. 2017 - Dec. 2017

Seoul, S.Korea Sep. 25-30. 2017

Scholarship_____

2023	ISMRM Trainee Stipend, ISMRM Workshop on Data Sampling and Image Reconstruction	US
2021	Dissertation Fellowship, Graduate Students Idea Incubation Fund, Yonsei University	S.Korea
2021	Academy Research Fellowship, Graduate Students Idea Incubation Fund, Yonsei University	S.Korea
2021	Best Paper Award Scholarship, Graduate Student Paper Award, Yonsei University	S.Korea
2020	ISMRM Trainee Stipend, ISMRM Workshop on Data Sampling and Image Reconstruction	US
2017-2019	ISMRM Educational Stipend, ISMRM	US
2019	Brain Korea 21 Plus Outstanding Student Fellow Scholarship, Korea Research Foundation	S.Korea
2018	Teaching Assistant Scholarship, Yonsei Univeristy	S.Korea
2017-2020	Brain Korea 21 Plus Scholarship, Korea Research Foundation	S.Korea
2016	Research Assistant Scholarship, Yonsei Univeristy	S.Korea
2012-2015	National Scholarship for Science & Engineering, Korea Student Aid Foundation	S.Korea

Invited Talks_____

Self-Supervised Learning for Rapid Quantitative MRI	Boston, US
Athinoula A. Martinos Center for Biomedical Imaging	May. 2023
Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital	
Deep Model-based MR Parameter Mapping Network (DOPAMINE) for Fast MR Reconstruction	Seoul, S.Korea
34TH KSIIM Conference, 2020	Oct. 2020
Korean Society of Imaging Informatics in Medicine	
Medical Imaging Research using Artificial Intelligence	Seoul, S.Korea
HUFS AIM LAB, 2020	Jan. 2020
The Catholic University of Korea, Eunpyeong St. Mary's Hospital	

Presented Talks_____

PRIME: Phase Reversed Interleaved Multi-Echo acquisition enables highly accelerated distortion-free diffusion MRI	Singapore
ISMRM Аммиац Меетінд, 2024 • International Society for Magnetic Resonance in Medicine (ISMRM) Annual Meeting, 2024	May. 2024
Rapid Pediatric Imaging with Zero-Shot Deep Subspace Reconstruction for Multiparametric Quantitative MRI	Singapore
ISMRM ANNUAL MEETING, 2024 International Society for Magnetic Resonance in Medicine (ISMRM) Annual Meeting, 2024 	May. 2024
Zero-DeepSub: Zero-Shot Deep Subspace Reconstruction for Multiparametric Quantitative MRI Using QALAS ISMRM ANNUAL MEETING, 2023 • International Society for Magnetic Resonance in Medicine (ISMRM) Annual Meeting, 2023	Toronto, Canada June. 2023
Deep Subspace Reconstruction with Zero-Shot Learning for Multiparametric Quantitative MRI	Sedona, US
ISMRM Workshop on Data Sampling and Image Reconstruction, 2023 International Society for Magnetic Resonance in Medicine (ISMRM) on Data Sampling and Image Reconstruction, 2023 	Jan. 2023
Joint Reconstruction of MR Image and Coil Sensitivity Maps using Deep Model-based Network ISMRM ANNUAL MEETING, 2021 • International Society for Magnetic Resonance in Medicine (ISMRM) Annual Meeting, 2021	Virtual Conference May. 2021
Deep Learning-based Automatic Detection and Segmentation of Brain Metastases Using Multi-Task Learning with 3D Black-Blood and GRE Imaging ISMRM ANNUAL MEETING, 2021 • International Society for Magnetic Resonance in Medicine (ISMRM) Annual Meeting, 2021	Virtual Conference May. 2021

Deep Model-based MR Parameter Mapping Network (DOPAMINE) for Fast MR	Virtual Conference
Reconstruction	
ISMRM ANNUAL MEETING, 2020	Aug. 2020
• International Society for Magnetic Resonance in Medicine (ISMRM) Annual Meeting, 2020	
Deep Convolutional Neural Network for Acceleration of Magnetic Resonance Anglography (MRA)	Hawaii, US
ISMRM Annual Meeting, 2017	Apr. 2017
International Society for Magnetic Resonance in Medicine (ISMRM) Annual Meeting, 2017	
Publications - Preprints	
NLCG-Net: A Model-Based Zero-Shot Learning Framework for Undersampled	2024
Quantitative MRI Reconstruction.	2027
X Jian, <u>Y Jun</u> , J Cho, M Gao, X Yong, B Bilgic	
arXiv preprint arXiv:2401.12004	
Improved Multi-Shot Diffusion-Weighted MRI with Zero-Shot Self-Supervised Learning	2023
Reconstruction	
J CHO, <u>Y JUN</u> , X WANG, C КОВАҰАSHI, B BILGIC • arXiv preprint arXiv:2308.05103	
Zero-DeepSub: Zero-Shot Deep Subspace Reconstruction for Rapid Multiparametric	2022
Quantitative MRI Using 3D-QALAS	2023
Y Jun, Y Arefeen, J Cho, S Fujita, X Wang, PE Grant, B Gagoski, C Jaimes, MS Gee*, B Bilgic*	
• arXiv preprint arXiv:2307.01410	
SDC-UDA: Volumetric Unsupervised Domain Adaptation Framework for Slice-Direction	2023
Continuous Cross-Modality Medical Image Segmentation	2023
H Shin, H Kim, S Kim, <u>Y Jun</u> , T Eo, D Hwang	
arXiv preprint arXiv:2305.11012	
SSL-QALAS: Self-Supervised Learning for Rapid Multiparameter Estimation in	2023
Quantitative MRI Using 3D-QALAS	
Y Jun, J Cho, X Wang, M Gee, PE Grant, B Bilgic*, B Gagoski* • arXiv preprint arXiv:2302.14240	
COCMOC: Cross Madelity Unsure an isod Demoin Adaptation for 2D Madiat Unsure	
COSMOS: Cross-Modality Unsupervised Domain Adaptation for 3D Medical Image	2022
arXiv preprint arXiv:2203.16557	
Self-Training Based Unsupervised Cross-Modality Domain Adaptation for Vestibular	
Schwannoma and Cochlea Segmentation	2021
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	Learning Apparatus and Method for Generating Encephaloma Discriminative Image, Apparatus and	
2018	Method for Generating Encephaloma Discriminative Image, and Recording Medium thereof, Registered,	S.Korea

 10-1928213

 2018

 2018

 10-1886575

S.Korea

Skills ____

ProgrammingPython, Matlab, Pytorch, Tensorflow/Keras, C/C++LanguagesKorean, English

Activities_

	 IEEE Transactions on Medical Imaging (IEEE TMI) (*Distinguished Reviewer)
	IEEE Sensors Letters
	Scientific Reports
Reviewer	Magnetic Resonance in Medicine
	 International Society for Magnetic Resonance in Medicine (ISMRM 2022-2024)
	 International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 2020-2024) European Conference on Computer Vision (ECCV 2024)
	Moderator of International Society for Magnetic Resonance in Medicine (ISMRM 2024)
Moderator	 Poster Facilitator of International Society for Magnetic Resonance in Medicine (ISMRM 2021)
Membership	Trainee Member of International Society for Magnetic Resonance in Medicine (ISMRM)
	Quantitative MR
ISMRM Study Groups	Pediatric MR
	• Diffusion
ISMRM Study Groups	Pediatric MRDiffusion

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