


Curriculum Vitae

Personal Information	
Title	Pf
Name	Sooyeon Ji
Degree	PhD
Country	Republic of Korea
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Educational Background	
2018 Mar - 2023 Feb	Combined MS and Ph. D., Electrical and Computer Engineering Seoul National University , Republic of Korea Advisor: Prof. Jongho Lee
2013 Mar - 2017 Aug	BS, Electrical and Computer Engineering Seoul National University , Republic of Korea <i>Summa Cum Laude Honors</i>
Professional Career	
2024 Sep – Current	Assistant Professor Division of Computer Engineering, Hankuk University of Foreign Studies , Republic of Korea
2023 Apr – 2024 Aug	Post-Doctoral Researcher Department of Electrical and Computer Engineering, Seoul National University , Republic of Korea Advisor: Prof. Jongho Lee
Research Field	
<ul style="list-style-type: none"> • Biophysical model-based deep learning • Computational biomedical imaging 	
Main Scientific Publications	
<ul style="list-style-type: none"> • S. Ji[†], J. Jang[†], M. Kim, H. Lee, W. Kim, J. Lee, HG. Shin*. "Comparison between R2'-based and R2*-based χ-separation methods: A clinical evaluation in individuals with multiple sclerosis." <i>NMR in Biomedicine</i> (2024) • J. Lee^{*†}, S. Ji[†], SH. Oh*. "So You Want to Image Myelin Using MRI: Magnetic Susceptibility Source Separation for Myelin Imaging." <i>Magnetic Resonance in Medical Sciences</i> (2024) • S. Ji, EJ. Choi, B. Sohn, K. Baik, NY. Shin, WJ. Moon, S. Park, S. Song, PH. Lee, DH. Shin, SH. Oh, EY. Kim*, J. Lee*. "Sandwich spatial saturation for neuromelanin-sensitive MRI: Development and multi-center trial", <i>Neuroimage</i>, 2022 (doi.org/10.1016/j.neuroimage.2022.119706) • S. Ji[†] D. Yang[†], J. Lee, SH. Choi, H. Kim, KM. Kang*, "Synthetic MRI: technologies and applications in neuroradiology", <i>Journal of Magnetic Resonance Imaging</i>, 2022 (doi.org/10.1002/jmri.27440) 	

- **S. Ji**, J. Jeong, SH. Oh, Y. Nam, SH. Choi, HG. Shin, D. Shin, W. Jung, J. Lee*. "Quad-Contrast Imaging: Simultaneous Acquisition of Four Contrast-Weighted Images (PD-Weighted, T₂-Weighted, PD-FLAIR and T₂-FLAIR Images) With Synthetic T₁-Weighted Image, T₁- and T₂-Maps", IEEE Transactions on Medical Imaging, 2021 (doi.org/10.1109/TMI.2021.3093617)
- S. Lee[†], RE. Yoo[†], SH. Choi, SH. Oh, **S. Ji**, J. Lee, KY. Huh, JY. Lee, I. Hwang, KM. Kang, TJ. Yum, J. Kim, CH. Shon*, "Contrast-enhanced MRI T1 mapping for quantitative evaluation of putative dynamic glymphatic activity in the human brain in sleep-wake states", Radiology, 2021 (doi.org/10.1148/radiol.2021203784)
- W. Jung, J. Yoon, **S. Ji**, JY. Choi, JM. Kim, Y. Nam, EY. Kim, J. Lee*, "Exploring linearity of deep neural network trained QSM: QSMnet+", Neuroimage, 2018 (doi.org/10.1016/j.neuroimage.2020.116619)
- D. Shin, **S. Ji**, D. Lee, J. Lee, SH. Oh, J. Lee*, "Deep Reinforcement Learning Designed Shinnar-Le Roux RF Pulse Using Root-Flipping: DeepRF_{SLR}", IEEE Transactions on Medical Imaging, 2020 (doi.org/10.1109/TMI.2020.3018508)
- H. An, HG. Shin, **S. Ji**, W. Jung, S. Oh, D. Shin, J. Park, J. Lee*, "DeepResp: Deep learning solution for respiration-induced B0 fluctuation artifacts in multi-slice GRE", Neuroimage, 2021 (10.1016/j.neuroimage.2020.117432)
- HG. Shin, SH. Oh, M. Fukunaga, Y. Nam, D. Lee, W. Jung, M. Jo, **S. Ji**, JY. Choi, J. Lee*, "Advances in gradient echo myelin water imaging at 3T and 7T", Neuroimage, 2019 (doi.org/10.1016/j.neuroimage.2018.11.040)