Jung Hwa Kang

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Education	**[BS]** (Double Major) **Hankuk University of Foreign Studies,** Division of Computer & Electronic Systems Engineering Division of Biomedical Engineering	Mar.2016 – Aug.2020
	[MS] **Hankuk University of Foreign Studies,** Division of Biomedical Engineering (2020.9 ~ ing) HufsAIM lab Advisor: **Prof. Yoonho Nam**	Sep.2020 – Present
Internship Training	**2018.8 Seoul National University Internship, QSM** Advisor: Jongho Lee	Aug.2018
	Department of Radiology, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, South Korea & Department of Radiology, Eunpyeong St. Mary's Hospital, The Catholic University of Korea, Seoul, South Korea Advisor: Yoonho Nam	Dec.2018-Feb.2020
	HUFSAIM lab in Hankuk University of Foreign Studies Advisor: Yoonho Nam	Feb.2020-Aug.2020
Teaching Experience	**Teaching Assistant at** • Logic circuit & Lab (Spring, 2019) • Biomedical Probability & Statistics (Spring, 2020) • Medical Image Processing & Laboratory using Artificial Intelligence (Fall, 2020)	
Computer Skill	• python; Deep learning libraries (Pytorch, tensorflow). • Matlab • C/C++/Java • SQL DB (서울 성모 신경외과 DB 및 web based interface 구축)	
Conference Abstracts	• Kim et al, Hankuk University of Foreign Studies, Korea, **Deep learning based automatic localization of substantia nigra region for quantitative analysis of neuromelanin and nigrosome imaging**, ICMRI, 2019, SS02-06 • Kang et al, Hankuk University of Foreign Studies, Korea, **Automatic 3D segmentation of breast**	

	and fibroglandular tissue in breast MR images using 3D convolutional neural network, ICMRI, 2019, PP04-10 • 강정화 외, 한국외국어대학교, **Neuromelanin과 Nigrosome 영상 정량 분석을 위한 흑질영역을 자동으로 분할하는 딥러닝을 기반의 완전 자동화 기법**, 대한의용생체공학회 춘계학술대회, PSU-10 • 장승운 외, **Automated segmentation of subcortical brain structures from single echo SWI using deep learning**, 대한의용생체공학회, 추계학술대회, PSI-07 • Kang et al, Hankuk University of Foreign Studies, Korea, **CNN-based BPE Classification of Unbalanced Breast MR Dataset using Online Me- ta-learning Algorithm**. ICMRI, 2020, PP-AD-09 • Jang et al, Hankuk University of Foreign Studies, Korea, **Automatic Segmentation of Subcortical Brain Structures from Single-echo SWI Data using CNN**. ICMRI, 2020, PP-AD-10 • Kang et al. Hankuk University of Foreign Studies, Korea, **Automatic assessment of motion artifact on Nigrosome 1 visualization protocol using CNN-LSTM**, #3020, ISMRM, 2021 (digital poster) • 강정화 외, 한국외국어대학교,**두경부 CT 영상데이터의 자동화된 안면 비식별화 방법 개발 및 검증**, KoSAIM, 2021
Journal	• Nam, Y., Park, G. E., Kang, J., & Kim, S. H. (2020). Fully Automatic Assessment of Background Parenchymal Enhancement on Breast MRI Using Machine-Learning Models. Journal of Magnetic Resonance Imaging. Journal: https://doi.org/10.1002/jmri.27429 Github: https://github.com/jhkang0526/fgtseg
Awards	• 의료 빅데이터 분석 컨테스트 HeLP Challenge 2019 (Traumatic lesion classification and detection) 1등 PPT / 발표 영상 • 원광대학교 의료융합연구센터 2020 Body morphometry AI segmentation challenge 1등 PPT • 2021 ISMRM Annual Meeting & Exhibition Stipend