

Curriculum Vitae

Personal Information		
Title	연구교수	
Name	김규석	
Degree	박사	
Country	대한민국	
Affiliation	가천대학교 휴먼보건과학융합연구소	
Educational Background		
2008. 03 – 2015. 02 연세대학교 미래캠퍼스 방사선학과 (학사)		
2015. 09 – 2020. 02 연세대학교 미래캠퍼스 방사선융합공학과 (박사)		
Professional Career		
2019. 12 – 2021. 02 한국전기연구원 의료기기연구센터 (박사후연구원)		
2021. 03 – 2023. 02 연세대학교 의과대학 신경외과학교실 (연구조교수)		
2023. 03 – 2025. 02 을지대학교 의료공학과 (연구교수)		
2025. 03 – 현재 가천대학교 휴먼보건과학융합연구소 (연구교수)		
Research Field		
의료영상처리 (i.e., reconstruction, restoration, prediction, segmentation, etc.)		
방사선 물리 기반 정량적 물질 분석 (i.e., dual energy, material decomposition, etc.)		
오믹스 분석 (i.e., metabolomics, radiomics, etc.)		
시뮬레이션 모델링		
Main Scientific Publications		
<i>Main Achievements (10 max)</i>		
[01] Kim, K. et al., Development of a proof-of-principle PET system using multi-time-over-threshold and FPGA without ADC or TDC, Nucl. Eng. Tech. 2025, 1003362.		
[02] Kim, K. et al., Performance and usefulness evaluation of a software-based scatter correction technique for mammographic image, Heliyon 2024, e24862.		
[03] Kim, K. et al., Newly-designed adaptive non-blind deconvolution with structural similarity index in single-photon emission computed tomography, Nucl. Eng. Tech. 2023, 4591-4596.		
[04] Lee, M. et al., Image restoration algorithm incorporating methods to remove noise and blurring from positron emission tomography imaging for Alzheimer's disease diagnosis, Phys. Med. 2022, 181-189.		
[05] Kim, K. et al., Investigation of patch-based modulation transfer function (MTF) prediction framework in radiography, Radiat. Phys. Chem. 2021, 109728.		
[06] Kim, K. et al., Effectiveness of non-local means algorithm with and industrial 3 MeV LINAC high-energy X-ray system for non-destructive testing, Sensors 2020, 2634.		