

김휘영

Curriculum Vitae

Assistant Professor
연세의대 신경외과학교실



● Educational Background & Professional Experience

2024.3-Present	Assistant Professor, Dept. of Neurosurgery, Yonsei University College of Medicine
2018.3-2024.2	Research Assistant Professor, Dept. of Biomedical Systems Informatics, Yonsei University College of Medicine
2017.3-2018.2	Senior Researcher, Artificial Intelligence Research Institute
2010.3-2016.8	Ph.D. in Medical Physics, Seoul National University College of Medicine
2000.3-2005.2	B.S. in Computer Science, KAIST

● Research Interests

AI in Medicine, Precision Medicine, Medical Physics

● Publications

1. Hangnyoung Choi, Jae Han Kim, Hwiyoung Kim*, and Keun-Ah Cheon* "Identifying major predictors for parenting stress in a caregiver of autism spectrum disorder using machine learning models", *Frontiers in Neuroscience* (2023, IF=5.15)
2. Sooho Ahn*, Yoonah Do*, Hwiyoung Kim*, and Young Han Lee "Detection of Pacemaker and Identification of MRI-conditional Pacemaker Based on Deep-learning Convolutional Neural Networks to Improve Patient Safety", *Journal of Medical Systems* (2023, IF=5.30)
3. Hye Won Lee*, Hwiyoung Kim*, Taeyun Park, Beom Kyung Kim, and Seung Up Kim, "Machine learning-based hepatocellular prediction model for chronic hepatitis B with entecavir or tenofovir", *Liver International* (2023, IF=8.754)
4. Namki Hong*, Sang Wouk Cho*, Sungjae Shin, Seunghyun Lee, Seol A Jang, Seunghyun Roh, Young Han Lee, Yumie Rhee, Steven R Cummings, Hwiyoung Kim*, and Kyoung Min Kim*, "Deep-learning-based detection of vertebral fracture and osteoporosis using lateral spine X-ray radiography", *Journal of Bone and Mineral Research* (2023, IF=6.390)
5. Hwiyoung Kim*, Kye Ho Lee*, Kyunghwa Han, Ji Won Lee, Jin Young Kim, Dong Jin Im, Yoo Jin Hong, Byoung Wook Choi, and Jin Hur, "Performance of Deep Learning-based Pulmonary Nodule Detection with Synthetic Bone-suppressed Chest Radiographs". *JAMA Network Open* (2022, IF=13.350)