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<b>Major Field</b>	Medical AI

### Educational Background

2013. M.S. in Engineering, Kwangwoon University  
 2018. Ph.D. in Engineering, Kwangwoon University

### Professional Experience

2007-2010. **Researcher**, Institute of Radiation Medicine, Seoul National University  
 2008-2017. **Researcher**, Biomedical Engineering Research Division, National Cancer Center  
 2017-2018. **Researcher**, Gachon Medical Device Research Institute, Gachon University  
 2018-2024. **Research Professor**, College of Medicine, Gachon University  
 2024-Present. **Research Assistant Professor**, Gachon Biomedical & Convergence Institute, Gachon Gil Medical Center

### Main Scientific Publications

Kim, Y. J., Kim, J. E., Park, Y., Chai, J. W., Kim, K. G., & Choi, J. Y. (2025). Deep Learning-Based Automatic Muscle Segmentation of the Thigh Using Lower Extremity CT Images. *Diagnostics*, 15(22), 2823.

Kim, Y. J., Lee, J., Park, Y. H., Yang, J., Kim, D., Kim, K. G., & Lee, D. H. (2025). Deep Learning Model for Volume Measurement of the Remnant Pancreas After Pancreaticoduodenectomy and Distal Pancreatectomy. *Diagnostics*, 15(22), 2834.

Choi, J. C., Kim, Y. J., Kim, K. G., & Kim, E. Y. (2025). An Analysis of the Efficacy of Deep Learning-Based Pectoralis Muscle Segmentation in Chest CT for Sarcopenia Diagnosis. *Journal of Imaging Informatics in Medicine*, 1-11.

Lee, Y. S., Kim, Y. J., Ryu, J. W., Lee, S. Y., & Kim, K. G. (2025). Automated neonatal hip ultrasound system for diagnosing developmental dysplasia of hips using assistive AI. *Journal of Imaging Informatics in Medicine*, 1-14.

Kang, Y. H., Kim, Y. J., & Kim, K. G. (2025). Comparative Analysis of U-Net and U-Net3+ for Retinal Exudate Segmentation: Performance Evaluation Across Regions. *Journal of Imaging Informatics in Medicine*, 1-9.

Hwang, S. H., Kim, Y. J., Cho, J. B., Kim, K. G., & Nam, D. H. (2025). Digital image enhancement using deep learning algorithm in 3D heads-up vitreoretinal surgery. *Scientific Reports*, 15(1), 18429.