

Jonghun Kim

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Research Interests

Medical Image Analysis, Medical Image Translation, Generative Models

Education

Hanyang University

March 2015 — February 2022

B.S. in Computer Science & Engineering

Sungkyunkwan University

March 2022 — February 2024

M.S. in Electrical and Computer Engineering

Sungkyunkwan University

March 2024 — Current

Ph.D. in Electrical and Computer Engineering

Journal Publications

* First authors, † Corresponding authors. If absent, first/last authors are first/corresponding.

[J7] Dual-conditioned diffusion model with anatomical guidance for geometric distortion correction in prostate MRI

Inye Na, Qi Miao, **Jonghun Kim**, Kyunghyun Sung[†], Hyunjin Park[†]

European Radiology Experimental, 2026

[J6] LS-MAT: Lifespan structural magnetic resonance imaging synthesis for microstructural covariance profile analysis toolbox

Hokyun Kim, **Jonghun Kim**, Mansu Kim, Hyunjin Park, Bo-yong Park

NeuroImage, 2026

[J5] Visual prompt tuning for task-flexible medical image synthesis

Jonghun Kim, Hyunjin Park

Computer Methods and Programs in Biomedicine, 2026

[J4] Enhancing intracranial vessel segmentation using diffusion models without manual annotation for 3D Time-of-Flight Magnetic Resonance Angiography

Jonghun Kim, Inye Na, Jiwon Chung, Ha-Na Song, Kyungseo Kim, Seongvin Ju, Mi-Yeon Eun, Woo-Keun Seo[†], Hyunjin Park[†]

Computerized Medical Imaging and Graphics, 2025

[J3] Visual prompt tuning for task-flexible medical image synthesis

Jonghun Kim, Inye Na, Junmo Kwon, Woo-Keun Seo, Hyunjin Park

Computer Methods and Programs in Biomedicine, 2025

[J2] Enhancing radiomics features via a large language model for classifying benign and malignant breast tumors in mammography

Sinyoung Ra, **Jonghun Kim**, Inye Na, Eun Sook Ko, Hyunjin Park

Computer Methods and Programs in Biomedicine, 2025

[J1] Leveraging segmentation-guided spatial feature embedding for overall survival prediction in glioblastoma with multimodal magnetic resonance imaging

Junmo Kwon, **Jonghun Kim**, Hyunjin Park

Computer Methods and Programs in Biomedicine, 2024

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[C16] Posterior Samplings are Missing Modalities Generators for Medical Image Translation

Jonghun Kim

ECCV 2026

[C15] Estimated Age-Guided Cerebral Microbleed Segmentation

Junmo Kwon, **Jonghun Kim**, Taehyeon Kim, Hyunjin Park

MICCAI 2026

[C14] Visual Instruction-Finetuned Language Model for Versatile Brain MR Image Tasks

Jonghun Kim, Sinyoung Ra, Hyunjin Park

ICPR 2026

[C13] Multi-LLM Collaborative MRI Report Generation for Visual Instruction Tuning in Brain Oncology

Sinyoung Ra*, **Jonghun Kim***, Hyunjin Park

IEEE EMBC 2026

[C12] Harmonizing Multi-Domain Heterogeneity in Medical Imaging via Gaussian Mixture Model

Gyeongdeok Jo, **Jonghun Kim**, Nejung Rue, Hyunjin Park

IEEE BIBM 2025

[C11] Privacy Preserving Chest X-Ray Classification in Latent Space with Homomorphically Encrypted Neural Inference

Jonghun Kim, Gyeongdeok Jo, Sinyoung Ra, Hyunjin Park

MICCAI 2025

[C10] PMIL: Prompt Enhanced Multimodal Integrative Analysis of fMRI Combining Functional Connectivity and Temporal Latency

Hyoungshin Choi, **Jonghun Kim**, Jiwon Chung, Bo-yong Park, Hyunjin Park

MICCAI 2025

[C9] Blood Pressure Assisted Cerebral Microbleed Segmentation via Meta-matching

Junmo Kwon, **Jonghun Kim**, Taehyeon Kim, Sang Won Seo, Hwan-ho Cho, Hyunjin Park

MICCAI 2025

[C8] Multimodal structural MRI synthesis pipeline across age

Ho-Kyun Kim, **Jonghun Kim**, Hyunjin Park, Bo-Yong Park

IEEE EMBC 2025

[C7] Simulating Post-Neoadjuvant Chemotherapy Breast Cancer MRI via Diffusion Model with Prompt Tuning

Jonghun Kim, Hyunjin Park

IEEE ISBI 2025

[C6] Tumor Synthesis Conditioned on Radiomics

Jonghun Kim, Inye Na, Eun Sook Ko, Hyunjin Park

WACV 2025

[C5] DeAFusion: Detail-Aware Image Fusion for Whitematter Hyperintensity Segmentation

Gyeongdeok Jo, **Jonghun Kim**, Bo-Yong Park, Hyunjin Park

IEEE BIBM 2024

[C4] Radiomicsfill-mammo: Synthetic mammogram mass manipulation with radiomics features

Inye Na, **Jonghun Kim**, Eun Sook Ko, Hyunjin Park

MICCAI 2024

[C3] Domain Aware Multi-Task Pre-Training of 3D Swin Transformer for Brain MRI

Jonghun Kim*, Mansu Kim*, Hyunjin Park

ACCV 2024

[C2] Radiomics-guided Multimodal Self-attention Network for Predicting Pathological Complete Response in Breast MRI

Jonghun Kim, Hyunjin Park

IEEE ISBI 2024

[C1] Adaptive latent diffusion model for 3d medical image to image translation: Multi-modal magnetic resonance imaging study

Jonghun Kim, Hyunjin Park

WACV 2024

Award

First Place Award in COSMOS 2022 Grand Challenge

Jonghun Kim, Inye Na, Junmo Kwon, Hyunjin Park

SMRA 2022 and MICCAI 2022