

Sohyun Kim

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About Me

I am a PhD student conducting research in the Vision and Machine Learning lab. My research focuses on medical AI and explainable AI. I am interested in research for medical image analysis (Segmentation, Deformable Image Registration) and robust AI (Adversarial Defense). Additionally, I am interested in developing OpenGL-based 3D graphics to improve visualization techniques and support medical image analysis in clinical applications.

Education

Soongsil University Integrated Ph.D. Student in Computer Science and Engineering	Mar 2023 - Present Seoul, Republic of Korea
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Soongsil University B.S. in Computer Science and Engineering	Mar 2019 – Feb 2023 Seoul, Republic of Korea
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Publications

UC-Hybrid: Uncertainty-based contrastive learning on hybrid network for medical image segmentation	Aug 2024
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- *Sohyun Kim*, Minyoung Chung*
- Computer Methods and Programs in Biomedicine [DOI]

Aorta Multi-class Segmentation via Anatomically Constrained Plane Detection	2025
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- Jonghoon An, Dong Hyun Lee, *So Hyun Kim*, Taejin Moon, and Minyoung Chung*
- Medical Image Computing and Computer Assisted Intervention – MICCAI 2025

Academic Services

- Reviewer of IEEE Transactions on Medical Imaging

Academic Interests

Medical AI

- Multi Organ Segmentation
- Registration (DIR; Deformable Image Registration)
- Lesion Detection, Anomaly Detection

Explainable AI

- Evidential Learning, Uncertainty-based Learning
- Robust AI (Adversarial Defense)