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JAEWON KIM

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https://kiimmm.github.io/

RESEARCH INTERESTS

Broadly interested in the intersection of ML/DL and medicine.

EDUCATION

Ph.D. | ***Biomedical Sciences*** Sep. 2020 – Feb. 2026 (expected)
Advised by Prof. Sang Min Park
Seoul National University Seoul, Republic of Korea

B.E. | ***Computer Science and Technology*** Sep. 2016 – Jun. 2020
Tsinghua University Beijing, China

SELECTED PUBLICATIONS/PREPRINTS

* *indicates equal contribution*

Explainable opportunistic osteoporosis screening from chest X-rays: A retrospective comparison of foundation models
Jaewon Kim, Sangmin Kwak, Hyeokjong Lee, Jooyoung Chang, Sang Min Park
Osteoporosis International

Optimizing Retinal Images Based Carotid Atherosclerosis Prediction with Explainable Foundation Models
Hyeokjong Lee*, **Jaewon Kim***, Sangmin Kwak, Azka Rehman, Sang Min Park, Jooyoung Chang
npj Digital Medicine

Developing an explainable Deep Neural Network for stress detection using biosignals and human-engineered features
Hyeokjong Lee, **Jaewon Kim**, Bohyung Han, Sang Min Park, Jooyoung Chang
Biomedical Signal Processing and Control

Opportunistic AI for enhanced cardiovascular disease risk stratification using abdominal CT scans
Azka Rehman, **Jaewon Kim**, Hyeokjong Lee, Jooyoung Chang, Sang Min Park
Computerized Medical Imaging and Graphics

Generalized Supervised Contrastive Learning
Jaewon Kim, Jooyoung Chang, Sang Min Park
arXiv preprint

AWARDS

Youlchon AI for All Fellowship 2022, 2023
The Youlchon Foundation

Graduate Student Instructor Scholarship 2021, 2022, 2023
Seoul National University

TEACHING EXPERIENCE

Advanced Explainable AI in Medicine Spring 2023
Graduate Student Instructor
Graduate course at Seoul National University Seoul, Republic of Korea

Explainable AI in Medicine Spring 2021
Graduate Student Instructor
Graduate course at Seoul National University Seoul, Republic of Korea

SKILLS

Languages: Korean, English, and Chinese
Programming: Python, R, C/C++, Java
Frameworks and Applications: PyTorch, TensorFlow, scikit-learn, Pandas, LaTeX