

JEONGIN KIM

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RESEARCH INTERESTS

Low-Supervision Learning. Overcoming annotation dependency for scalable visual perception. My work emphasizes **active, weakly, and semi-supervised learning** to maximize data efficiency in tasks such as **semantic segmentation and object detection**.

Medical Domain Applications. Developing robust AI for clinical use by addressing sparse and imperfect labels. I explore **positive-unlabeled learning** for Chest X-Rays, focusing on precise disease classification/localization and longitudinal disease tracking.

EDUCATION

Ewha Womans University <i>M.S.–Ph.D., Artificial Intelligence (Advisor: Prof. Junhyug Noh)</i>	March 2024 – February 2029 (Expected) <i>Seoul, South Korea</i>
Kumoh National Institute of Technology <i>B.S., Electronic Engineering</i>	March 2019 – August 2023 <i>Gumi, South Korea</i>

WORK EXPERIENCE

Ewha Womans University Medical Center (EUMC) <i>Graduate Research Assistant</i>	July 2025 – Present <i>Seoul, South Korea</i>
<ul style="list-style-type: none">Analyzing large-scale CXR datasets for precise thoracic disease identification in automated computer-aided diagnosis (CAD) systems.	
DXR Co., Ltd <i>Research Intern</i>	July 2024 – June 2025 <i>Seoul, South Korea</i>
<ul style="list-style-type: none">Developed a generative AI pipeline for synthetic defect generation to address industrial data scarcity.Leveraged Stable Diffusion with DreamBooth and LoRA fine-tuning to produce high-fidelity images for enhanced anomaly detection.	

PUBLICATIONS

Jeongin Kim, Wonho Bae, YouLee Han, Giyeong Oh, Youngjae Yu, Danica J. Sutherland, Junhyug Noh, “Diffusion-Driven Two-Stage Active Learning for Low-Budget Semantic Segmentation.” **NeurIPS 2025**.

Jeongin Kim, Otto Frederike, Yeon-Mo Yang, and Wansu Lim, “An efficient scheme on face recognitions by Eigenface analysis,” **JKIIS**, vol. 33, no. 1, 2023.

Jeongin Kim, Paul Angelo Oroceo, and Wansu Lim, “Implementation of a Reliable VUI System on Edge Device,” **KICS**, vol. 47, no. 8, 2022.

AWARDS

NeurIPS Scholar Award <i>NeurIPS 2025</i>	December 2025 <i>San Diego, USA</i>
3rd Prize, Autonomous Driving AI Algorithm Development Challenge <i>M.DataSync</i>	October 2023 <i>Seoul, South Korea</i>

INVITED TALKS

MODUCON 2025 (MODULABS) <i>Track 01: AI to Reality with Ewha</i>	December 2025 <i>Seoul, South Korea</i>
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TECHNICAL SKILLS

Languages: Python, C/C++, MATLAB/Simulink

ML/DL Framework: PyTorch, TensorFlow

Operating Systems: Linux (Ubuntu), macOS, TinyOS

Tools & Skills: Git, Docker, Slurm (HPC), Vim, L^AT_EX

Embedded Systems: NVIDIA Jetson (Orin, TX2, Xavier NX, Nano), Raspberry Pi, Arduino, OpenBCI, LTE-M Module

REVIEWER

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)