

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

M.S.–Ph.D., Artificial Intelligence (Advisor: Prof. Junhyug Noh)

March 2024 – February 2029 (Expected)

Seoul, South Korea

Kumoh National Institute of Technology

B.S., Electronic Engineering

March 2019 – August 2023

Gumi, South Korea

WORK EXPERIENCE

Ewha Womans University Medical Center (EUMC)

Graduate Research Assistant

July 2025 – Present

Seoul, South Korea

- Analyzing large-scale CXR datasets for precise **thoracic disease identification** in automated **computer-aided diagnosis (CAD)** systems.

DXR Co., Ltd

Research Intern

July 2024 – June 2025

Seoul, South Korea

- 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

NeurIPS 2025

December 2025

San Diego, USA

3rd Prize, Autonomous Driving AI Algorithm Development Challenge

M.DataSync

October 2023

Seoul, South Korea

INVITED TALKS

MODUCON 2025 (MODULABS)

Track 01: AI to Reality with EWHA

December 2025

Seoul, South Korea

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, \LaTeX

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)