KYUNGRYEOL LEE

kr.lee@snu.ac.kr
https://krlee1.github.io/

EDUCATION

Seoul National University — Seoul, Republic of Korea
Integrated M.S. and Ph.D. in Electrical and Computer Engineering — *Sep 2024 - Present*
Advisor: Se Young Chun

Seoul National University — Seoul, Republic of Korea
B.S. in Electrical and Computer Engineering, *Cum laude* — *Mar 2020 - Aug 2024*

Gyeonggi Science High School for the Gifted — Suwon, Republic of Korea
Major: Mathematics, Physics — *Mar 2017 - Feb 2020*

PUBLICATIONS

Training-free Mixed-Resolution Latent Upsampling for Spatially Accelerated Diffusion Transformers
Wongi Jeong*, **Kyungryeol Lee***, Hoigi Seo, Se Young Chun (*co-first authors)
Accepted at Conference on Computer Vision and Pattern Recognition (**CVPR**), 2026.

Robust Watermarks for Audio Diffusion Models by Quadrature Amplitude Modulation
Kyungryeol Lee*, Seongmin Hong*, Se Young Chun (*co-first authors)
Pattern Recognition Letters, Vol. 198, pp. 22-28, 2025.

Efficient Personalization of Quantized Diffusion Model without Backpropagation
Hoigi Seo*, Wongi Jeong*, **Kyungryeol Lee**, Se Young Chun (*co-first authors)
Conference on Computer Vision and Pattern Recognition (**CVPR**), 2025.

AWARDS & HONORS

AI Seoul Tech Graduate Fellowship | Seoul Future Foundation — *Fall 2025*

Brain Korea 21 Four Program | Korea Research Foundation — *Sep 2024 - Present*

Academic Excellence Scholarship | Korea Research Foundation — *Spring 2023*

Gaheon Shindo Scholarship | Gaheon Shindo Foundation — *Fall 2020*

25th Samsung Humantech Paper Award | Samsung Electronics — *Jan 2019*
Encouragement Prize, Mathematics & Computer Science Division

INTERNSHIPS

Samsung Talented Internship Program (STIP) | Samsung Electronics — *Summer 2024*
Applied MAE-based model to impute missing values in tabular datasets.

PATENTS

Audio Data Management Device and Method Using A Generative AI Model
Se Young Chun, Seongmin Hong, **Kyungryeol Lee**
Korea Patent Filed (Application No. 10-2025-0046656), Apr 2025

PROJECTS

Efficient Personalization | Samsung Electronics 2025 - Present
Lightweight text-to-image generation and personalization for on-device applications.