

Sekwang Lee

AI Researcher & Generalist

- ✉ sekwang@postech.ac.kr
- 🌐 <https://github.com/skl0726>
- in <https://www.linkedin.com/in/sekwang-lee/>
- 🔗 <https://skl0726.github.io/Portfoilo-Website-Sekwang/> (old version)



🎓 Education

Pohang University of Science and Technology (POSTECH)

Undergraduate Student, Computer Science and Engineering (CSE)

> GPA: 3.92/4.3 (Summa Cum Laude)

Feb 2021 – Feb 2027 (Expected)

Pohang, South Korea

KTH Royal Institute of Technology

Exchange Student, Electrical Engineering and Computer Science (EECS)

Jan 2026 – Jun 2026

Stockholm, Sweden

🔍 Research Experience

Research Intern, Medical Information Processing Lab - CG/CV Team

Department of Computer Science and Engineering, POSTECH

Jan 2025 – Feb 2025 / Sep 2025 – Dec 2025

Pohang, South Korea

- > Supervised by Prof. Ilwoo Lyu
- > Reviewed research papers on *Spherical CNNs* and *SPHARM-Net*
- > Conducted research on *AdaPhase: Adaptive Low-frequency Fourier Phase Swapping for Training-free Content-preserving Style Transfer*

Distillation Through Attention of SwinDETR

Undergraduate Research Program & CSED538: Deep Learning (Graduate Course), POSTECH

Jul 2024 – May 2025

Pohang, South Korea

- > Worked as team leader for both projects (achieved an A+ grade in the Deep Learning course)
- > Designed *SwinDETR*, a 2D object detection model with enhanced small-object detection performance
- > Introduced distillation queries (inspired by the distillation token in *DeiT*) into *SwinDETR* and applied a hard-label distillation

Research Intern, Computer Vision Lab

Department of Computer Science and Engineering, POSTECH

Aug 2023 – Nov 2023

Pohang, South Korea

- > Supervised by Prof. Suha Kwak
- > Reviewed research papers on Fourier-based domain generalization
- > Designed research topic of *AdaIN Style Generalization*

⚙️ Projects

Autonomous Drone System with MIMO Signal Processing and Multimodal AI

I-Corps Program, Ministry of Science and ICT

Mar 2024 – Dec 2024

- > Worked as AI Developer and authored the Business Model Canvas
- > Designed a multimodal (image + radar heatmap) *FIFO-TransFuser* 2D segmentation model under foggy conditions
- > Conducted field research by visiting two fire stations and interviewing 15 firefighters to assess B2G market potential

💼 Work Experience

Student Advisor

Mueunjae School of Undergraduate Studies, POSTECH

Feb 2025 – Dec 2025

Pohang, South Korea

- > Providing counseling and educational program support for freshmen
- > TA for MSUS102/103: Future Planning for College Life I & II

Software Engineering Intern, AX (AI Transformation) Tech Team

LG Electronics

Jun 2025 – Aug 2025

Seoul, South Korea

- > Designed and implemented *OneClick* – a website task automation service using Playwright, Vision model, and LLM (founding member)

POSTECH Tech-Review Manager

Start-up Support Team, POSTECH

Jul 2024 – Jul 2025
Pohang, South Korea

- > Hosted tech seminars with startup CEOs and organized a technology-based ideathon

Military Police

Republic of Korea Army / Ministry of National Defense

Jan 2022 – Jul 2023
Seoul, South Korea

- > Worked as squad leader for 5 months

Awards & Honors

Best Research Project Award (Grand Prize)

Department of Computer Science and Engineering, POSTECH

Dec 2025

Next-generation Engineer Award

Institute for Promotion of Engineering and Science of Korea (IPESK)

Aug 2025

Presidential Science Scholarship

Ministry of Science and ICT

Jun 2025

Global Leadership Program

Department of Computer Science and Engineering, POSTECH

Sep 2024

- > Merit-based scholarship for top 8 CSE students

IT & Game Scholarship

Sangah Foundation

Jul 2024

POSTECH Programming Contest (3rd Prize)

Department of Computer Science and Engineering, POSTECH

May 2024

Young Engineers Honor Society (YEHS)

National Academy of Engineering of Korea

Jan 2024

Special Experience

ARPA-E Energy Innovation Summit

Advanced Research Projects Agency-Energy (ARPA-E)

Mar 2025
Washington, D.C., USA

- > Attended as a POSTECH student

Korea Cross Country Cycling Road

Ministry of Environment / Ministry of the Interior and Safety

Jul 2024
South Korea

- > Cycled 633 km over 6 days from Busan to Incheon

Book Published: *I Can Live a Wonderful Day Today* (『나는 오늘도 멋진 날을 살 수 있다』)

Self Project

Jun 2023 – Feb 2024

- > Wrote a 190-page collection of stories and reflections from my military service

CES 2024

Consumer Technology Association (CTA)

Jan 2024
Las Vegas, USA

- > Attended as a POSTECH student