

# Sekwang Lee

AI Researcher & Generalist



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- ⌚ <https://github.com/skl0726>
- ㏌ <https://www.linkedin.com/in/sekwang-lee/>
- ⌚ [https://skl0726.github.io/Portfolio-Website-Sekwang/ \(old version\)](https://skl0726.github.io/Portfolio-Website-Sekwang/)

## 🎓 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)

<b>POSTECH Tech-Review Manager</b>	Jul 2024 – Jul 2025
<i>Start-up Support Team, POSTECH</i>	<i>Pohang, South Korea</i>
> Hosted tech seminars with startup CEOs and organized a technology-based ideathon	
<b>Military Police</b>	Jan 2022 – Jul 2023
<i>Republic of Korea Army / Ministry of National Defense</i>	<i>Seoul, South Korea</i>
> Worked as squad leader for 5 months	

## 🏆 Awards & Honors

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<b>Best Research Project Award (Grand Prize)</b>	Dec 2025
<i>Department of Computer Science and Engineering, POSTECH</i>	
<b>Next-generation Engineer Award</b>	Aug 2025
<i>Institute for Promotion of Engineering and Science of Korea (IPESK)</i>	
<b>Presidential Science Scholarship</b>	Jun 2025
<i>Ministry of Science and ICT</i>	
<b>Global Leadership Program</b>	Sep 2024
<i>Department of Computer Science and Engineering, POSTECH</i>	
> Merit-based scholarship for top 8 CSE students	
<b>IT &amp; Game Scholarship</b>	Jul 2024
<i>Sangah Foundation</i>	
<b>POSTECH Programming Contest (3rd Prize)</b>	May 2024
<i>Department of Computer Science and Engineering, POSTECH</i>	
<b>Young Engineers Honor Society (YEHS)</b>	Jan 2024
<i>National Academy of Engineering of Korea</i>	

## ★ Special Experience

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<b>ARPA-E Energy Innovation Summit</b>	Mar 2025
<i>Advanced Research Projects Agency-Energy (ARPA-E)</i>	<i>Washington, D.C., USA</i>
> Attended as a POSTECH student	
<b>Korea Cross Country Cycling Road</b>	Jul 2024
<i>Ministry of Environment / Ministry of the Interior and Safety</i>	<i>South Korea</i>
> Cycled 633 km over 6 days from Busan to Incheon	
<b>Book Published: <i>I Can Live a Wonderful Day Today</i> (『나는 오늘도 멋진 날을 살 수 있다.』)</b>	Jun 2023 – Feb 2024
<i>Self Project</i>	
> Wrote a 190-page collection of stories and reflections from my military service	
<b>CES 2024</b>	Jan 2024
<i>Consumer Technology Association (CTA)</i>	<i>Las Vegas, USA</i>
> Attended as a POSTECH student	