

Sekwang Lee

Researcher & Aspiring Generalist

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🎓 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

📝 Publications

- [1] Sekwang Lee and Ilwoo Lyu. **AdaPhase: Navigating the Manifold with Adaptive Frequency Modulation for Faithful Diffusion Stylization**, under review.

🔍 Research Experience

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

Department of Computer Science and Engineering, POSTECH

> Advisor: Prof. Ilwoo Lyu

> Reviewed literature on **spherical deep learning** • Conducted research project: **AdaPhase** [1]

Jan 2025 – Feb 2025 • Sep 2025 – Dec 2025

Pohang, South Korea

Research Intern, Computer Vision Lab

Department of Computer Science and Engineering, POSTECH

> Advisor: Prof. Suha Kwak

> Reviewed literature on **Fourier-based domain generalization** • Formulated research topic: **AdaIN-based Generalization**

Aug 2023 – Nov 2023

Pohang, South Korea

⚙️ Projects

Distillation Through Attention of SwinDETR

Undergraduate Research Program • Deep Learning (Graduate Course), POSTECH

> Worked as team leader (A+ in the course)

> Designed **SwinDETR** for small-object detection • Introduced **distillation queries**

Jul 2024 – May 2025

Autonomous Drone System with MIMO Signal Processing and Multimodal AI

I-Corps Program, Ministry of Science and ICT

> Worked as AI Developer

> Designed **FIFO-Transfuser (image-radar multimodal)** for foggy conditions • Conducted field research at two fire stations

Mar 2024 – Dec 2024

📁 Work Experience

Student Advisor

Mueunjae School of Undergraduate Studies, POSTECH

> Conducted **66 counseling sessions** for freshmen • TA for freshman courses: Future Planning for College Life I & II

Feb 2025 – Dec 2025

Pohang, South Korea

Public Relations (PR) Coordinator

Institute of Communication and Public Discourse, POSTECH

> Led promotional content creation • Designed program posters (**founding member, invited by professor**)

Sep 2024 – Dec 2025

Pohang, South Korea

Software Engineering Intern, AX Technology Team

LG Electronics

> Designed and implemented **OneClick**: a website task automation service (**founding member**)

Jun 2025 – Aug 2025

Seoul, South Korea

Tech-Review Manager

Start-up Support Team, POSTECH

> Hosted technology seminars with startup CEOs • Organized a technology-based ideathon

Jul 2024 – Jul 2025

Pohang, South Korea

Military Police (Military Service)

Republic of Korea Army • Ministry of National Defense

> Worked as squad leader (5 months)

Jan 2022 – Jul 2023
Seoul, South Korea

🏆 Awards & Honors

Best Research Project Award (Grand Prize)

Department of Computer Science and Engineering, POSTECH

> Conducted research project: **AdaPhase** [1]

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

> Merit-based scholarship for the top 8 CSE students

Sep 2024

Book Review Essay Contest (Grand Prize)

Institute of Communication and Public Discourse, POSTECH

> Wrote on the social embeddedness of science and scientists' responsibility for scientific uncertainty

Aug 2024

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 (NAEK)

Jan 2024

★ Special Experience

ARPA-E Energy Innovation Summit

Advanced Research Projects Agency-Energy (ARPA-E)

> Attended as a POSTECH student

Mar 2025
Washington, D.C., USA

Korea Cross Country Cycling Road

Ministry of Environment • Ministry of the Interior and Safety

> Cycled 633 km over 6 days from Busan to Incheon (completed the cross country cycling certification)

Jul 2024
South Korea

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

Self Project

> Authored a 190-page collection of stories and reflections during military service

Jun 2023 – Feb 2024

CES 2024

Consumer Technology Association (CTA)

> Attended as a POSTECH student

Jan 2024
Las Vegas, USA