

Seonho Lee

glanceyes@kaist.ac.kr | glanceyes.github.io | linkedin (glanceyes) | github (glanceyes)

Education

- KAIST**, Graduate of Artificial Intelligence Mar 2024 – Feb 2026
(*expected*)
- Advisor: *Prof.* Hyunjung Shim
 - Research area: Generative Models, Open-Vocabulary Understanding
- Sogang University**, BS in Computer Science and Engineering Mar 2017 – Feb 2024
- GPA: 4.12/4.3 (*2nd out of 120*)
- Sangsan High School** Mar 2014 - Feb 2017

Publications

- Scribble-Guided Diffusion for Training-free Text-to-Image Generation** Sep 2024
Seonho Lee^{*}, Jiho Choi, Seohyun Lime, Jiwook Kim, Hyunjung Shim (** indicates equal contribution*)
Under Review, arXiv:2409.08026
- DreamCatalyst: Fast and High-Quality 3D Editing via Controlling Editability and Identity Preservation** Jul 2024
Jiwook Kim^{*}, Seonho Lee^{*}, Jaeyo Shin, Jiho Choi, Hyunjung Shim (** indicates equal contribution*)
Under Review, arXiv:2407.11394
- Understanding Multi-Granularity for Open-Vocabulary Part Segmentation** May 2024
Jiho Choi^{*}, Seonho Lee^{*}, Seungho Lee, Minhyun Lee, Hyunjung Shim (** indicates equal contribution*)
NeurIPS 2024, arXiv:2406.11384

Experience

- CVML Lab**, KAIST Jun 2023 - Feb 2026
- Graduate Student AI Researcher
- Deep Learning Engineer**, HVCL, Korea University Jul 2022 – Aug 2022
- Developed web-based deep-learning software in analysis of pathology
 - Contributed to a project in a start-up affiliated with the laboratory
 - Advisor: *Prof.* Won Ki Jeong
- Data Engineer**, Life Planning Lab Dec 2021 – Jan 2022
- Developed back-end platform and managed database
 - Created a data preprocessor on AWS and built data pipeline for dashboard

Projects

- SHrack: Mobile Web Service for Real-time Exercise Count Tracking** Mar 2023 - Jun 2023
- Web-based real-time video streaming service for accurate exercise count detection
 - Developed a pipeline for deep learning using MobileNet and Contextual Prediction Module
- RECJOON: Backjoon Online Judge Problem Solving Recommendation System** Mar 2022 - Jun 2022

- Recommendation system for Baekjoon Online Judge algorithm problems
- Led a project developing a web application and designed MLOps architectures

KUVIS (Vience Canvas)

Jun 2022 - Aug 2022

- Developed a baseline for back-end and streaming services
- Designed segmentation model with U-Net architecture

Honors and Awards

2nd Place on Open Vocabulary Part Segmentation Challenge at CVPR 2024

Jun 2024

- 2nd Place Winner both on Track 1 and 2
- 4th workshop on Open World Vision at CVPR 2024

Excellence Award in 2023 POSTECH OIBC Challenge

Dec 2023

- 3rd Place (3/120) in AI Competition of Solar Power Generation Forecasting

2022 ICPC Asia Korea Regional Contest

- 48th in Korea, 62th in Preliminary

Korea National Science and Technology Scholarship

Apr 2019

- Spring 2019, Fall 2022, Spring 2023, Fall 2023 (4 Semesters)

Dean's List, Sogang University

- 1%: Spring 2018, Spring 2019, Fall 2022
- 5%: Fall 2018

Teaching Experience

Basic Computational Engineering Design, CSE2003, Sogang University

Sep 2023 - Dec 2023

- Teaching Assistant

Technologies

Languages: C, C++, Python, PyTorch, Linux, JavaScript, SQL, PHP

Technologies: Docker, PyTorch, Tensorflow, FastAPI, React, Node.js

Languages: Korean (Native), English (Fluent)