Seonho Lee

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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 (2^{nd} *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:2407.11394

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 Winnder 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
- 48^{th} in Korea, 62^{th} 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)