

Seonho Lee

Dual citizenship (Republic of Korea, USA) | glanceyes@kaist.ac.kr | glanceyes.github.io | linkedin (glanceyes)

Education

KAIST , Graduate of Artificial Intelligence	Mar 2024 – Feb 2026 (expected)
<ul style="list-style-type: none">• Advisor: <i>Prof.</i> Hyunjung Shim• GPA: 4.18/4.3• Research area: Generative Models, Open-Vocabulary Understanding	
Sogang University , BS in Computer Science and Engineering	Mar 2017 – Feb 2024
<ul style="list-style-type: none">• GPA: 4.12/4.3 (2nd out of 120, <i>Summa Cum Laude</i>)	
Sangsan High School	Mar 2014 - Feb 2017

Publications

*: equal contribution †: co-corresponding author

3D-Aware Vision-Language Models Fine-Tuning with Geometric Distillation	May 2025
Seonho Lee*, Jiho Choi*, Inha Kang, Jiwook Kim, Junsung Park, Hyunjung Shim	
Under Review	
What "Not" to Detect: Improving Object Detection under Negation via Reasoning and Token Merging	May 2025
Inha Kang, Youngsun Lim, <u>Seonho Lee</u> , Jiho Choi, Junsuk Choi†, Hyunjung Shim†	
Under Review	
Fine-Grained Image-Text Correspondence with Cost Aggregation for Open-Vocabulary Part Segmentation	Jan 2025
Jiho Choi*, <u>Seonho Lee</u> *, Seungho Lee, Minhyun Lee, Hyunjung Shim	
CVPR 2025, arXiv:2501.09688	
Scribble-Guided Diffusion for Training-free Text-to-Image Generation	Sep 2024
<u>Seonho Lee</u> *, Jiho Choi*, Seohyun Lim, Jiwook Kim, Hyunjung Shim	
ICIP 2025, arXiv:2409.08026	
DreamCatalyst: Fast and High-Quality 3D Editing via Controlling Editability and Identity Preservation	Jul 2024
Jiwook Kim*, <u>Seonho Lee</u> *, Jaeyo Shin, Jiho Choi, Hyunjung Shim	
ICLR 2025, arXiv:2407.11394	
Understanding Multi-Granularity for Open-Vocabulary Part Segmentation	May 2024
Jiho Choi*, <u>Seonho Lee</u> *, Seungho Lee, Minhyun Lee, Hyunjung Shim	
NeurIPS 2024, arXiv:2406.11384	

Work Experience

Generative ML Research Intern , Snap Inc.	Jun 2025 - Sep 2025 (expected)
<ul style="list-style-type: none">• Summer internship at Generative ML team, Santa Monica, CA• Research on video diffusion model	

Graduate Researcher , CVML Lab, KAIST	Mar 2024 - Feb 2026
<ul style="list-style-type: none"> • Researching multi-modal AI for real-world interactions, particularly in open-vocabulary settings • Investigating generative AI for 3D content creation and editing 	
Research Intern , HVCL, Korea University	Jul 2022 – Aug 2022
<ul style="list-style-type: none"> • Developed web-based deep-learning software in analysis of pathology • Contributed to a project in a start-up affiliated with the laboratory • Advisor: <i>Prof.</i> Won Ki Jeong 	
Data Engineer , Life Planning Lab	Dec 2021 – Jan 2022
<ul style="list-style-type: none"> • Developed back-end platform and managed database • Created a data preprocessor on AWS and built data pipeline for dashboard 	

Projects

Research on 3D-aware VLM Finetuning , KAIST & Samsung Research	Jun 2024 - Jun 2025
<ul style="list-style-type: none"> • On-going research project for industry-university cooperation 	
SHrack: Mobile Web Service for Real-time Exercise Count Tracking	Mar 2023 - Jun 2023
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • Developed a baseline of parallel computing for deep learning • Designed an architecture of visual AI programming 	

Honors and Awards

2nd Place on Open-Vocabulary Part Segmentation Challenge at CVPR 2024	Jun 2024
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 3rd Place (3/120) in AI Competition of Solar Power Generation Forecasting 	
2022 ICPC Asia Korea Regional Contest	
<ul style="list-style-type: none"> • 48th in Korea, 62nd in Preliminary 	
Korea National Science and Technology Scholarship	Mar 2019 - Dec 2023
<ul style="list-style-type: none"> • Spring 2019, Fall 2022, Spring 2023, Fall 2023 (4 Semesters) 	
Dean's List, Sogang University	
<ul style="list-style-type: none"> • 1%: Spring 2018, Spring 2019, Fall 2022 • 5%: Fall 2018 	

Teaching Experience

Basic Computational Engineering Design, CSE2003, Sogang University

Sep 2019 - Dec 2019

- Teaching Assistant

Skill Development

Naver Boostcamp AI Tech 3rd

Jan 2022 - Jun 2022

- Participated in courses and competitions hosted by Upstage