

# Seonho Lee

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

## Education

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

## Publications

<b>Fine-Grained Image-Text Correspondence with Cost Aggregation for Open-Vocabulary Part Segmentation</b>	Jan 2025
Jiho Choi*, <u>Seonho Lee</u> *, Seungho Lee, Minhyun Lee, Hyunjung Shim (* indicates equal contribution)	
CVPR 2025, arXiv:2501.09688	
<b>Scribble-Guided Diffusion for Training-free Text-to-Image Generation</b>	Sep 2024
<u>Seonho Lee</u> *, Jiho Choi*, Seohyun Lim, Jiwook Kim, Hyunjung Shim (* indicates equal contribution)	
Under Review, arXiv:2409.08026	
<b>DreamCatalyst: Fast and High-Quality 3D Editing via Controlling Editability and Identity Preservation</b>	Jul 2024
Jiwook Kim*, <u>Seonho Lee</u> *, Jaeyo Shin, Jiho Choi, Hyunjung Shim (* indicates equal contribution)	
ICLR 2025, arXiv:2407.11394	
<b>Understanding Multi-Granularity for Open-Vocabulary Part Segmentation</b>	May 2024
Jiho Choi*, <u>Seonho Lee</u> *, Seungho Lee, Minhyun Lee, Hyunjung Shim (* indicates equal contribution)	
NeurIPS 2024, arXiv:2406.11384	

## Work Experience

<b>Generative ML Research Intern</b> , Snap Inc.	Jun 2025 - Sep 2025 (expected)
<ul style="list-style-type: none"><li>• Summer internship at Generative ML team, Santa Monica, CA</li><li>• Research on video diffusion model</li></ul>	
<b>Graduate Researcher</b> , CVML Lab, KAIST	Mar 2024 - Feb 2026
<ul style="list-style-type: none"><li>• Researching multi-modal AI for real-world interactions, particularly in open-vocabulary settings</li><li>• Investigating generative AI for 3D content creation and editing</li></ul>	
<b>Research Intern</b> , HVCL, Korea University	Jul 2022 – Aug 2022
<ul style="list-style-type: none"><li>• Developed web-based deep-learning software in analysis of pathology</li><li>• Contributed to a project in a start-up affiliated with the laboratory</li><li>• Advisor: <i>Prof.</i> Won Ki Jeong</li></ul>	

## **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**

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### **Research on 3D-aware VLM Finetuning, KAIST & Samsung Research**

Jun 2024 - Jun 2025

- On-going research project for industry-university cooperation

### **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 of parallel computing for deep learning
- Designed an architecture of visual AI programming

## **Honors and Awards**

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### **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**

- 48<sup>th</sup> in Korea, 62<sup>nd</sup> in Preliminary

### **Korea National Science and Technology Scholarship**

Mar 2019 - Dec 2023

- 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**

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### **Basic Computational Engineering Design, CSE2003, Sogang University**

Sep 2019 - Dec 2019

- Teaching Assistant

## **Skill Development**

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### **Naver Boostcamp AI Tech 3rd**

Jan 2022 - Jun 2022

- Participated in courses and competitions hosted by Upstage