

# Griffin Sunho Lee

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

## Education

|   |                                   |
|---|-----------------------------------|
| <b>KAIST</b> , Graduate of Artificial Intelligence  | Mar 2024 – Feb 2026<br>(expected) |
| <ul style="list-style-type: none"><li>• Advisor: <i>Prof.</i> Hyunjung Shim</li><li>• GPA: 4.20/4.3</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

\*: equal contribution      †: corresponding author

|   |          |
|---|----------|
| <b>3D-Aware Vision-Language Models Fine-Tuning with Geometric Distillation</b>  | May 2025 |
| Seonho Lee*, Jiho Choi*, Inha Kang, Jiwook Kim, Junsung Park, Hyunjung Shim†<br>EMNLP 2025 Findings, arXiv:2506.09883 |          |
| <b>What "Not" to Detect: Improving Object Detection under Negation via Reasoning and Token Merging</b>                | May 2025 |
| Inha Kang, Youngsun Lim, <u>Seonho Lee</u> , Jiho Choi, Junsuk Choi†, Hyunjung Shim†<br>Under Review                  |          |
| <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†<br>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†<br>ICIP 2025, 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†<br>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†<br>NeurIPS 2024, arXiv:2406.11384           |          |

## Work Experience

|   |                                   |
|---|-----------------------------------|
| <b>Generative ML Engineer Intern</b> , Snap Inc.  | Jun 2025 - Sep 2025<br>(expected) |
| <ul style="list-style-type: none"><li>• Summer internship at Generative ML team, Santa Monica, California, USA</li><li>• Created cross-reference dataset preprocessing pipeline for personalized video generation</li></ul> |                                   |

- Developed new model architecture with IP-Adapters for VideoAlchemist

**Graduate Researcher**, CVML Lab, KAIST

Mar 2024 - Feb 2026

- Researching multi-modal AI for real-world interactions in open-vocabulary settings
- Investigating generative AI for 3D content creation and editing

**Research Intern**, 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

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

Jun 2024 - Jun 2025

- Korean patent (Application number: 10-2025-0109574)

**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

**Korean Presidential Science Scholarship for Graduate Students**

Jun 2025

- Awarded by the President of Korea (Acceptance Rate 5%, 18K USD)

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

Jun 2024

- 2nd Place 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 (2k USD Prize)

**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