

Griffin Sunho Lee (Seonho Lee)

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I specialize in **generative AI** and **perception**, with research spanning high-dimensional content generation and editing as well as enhanced perception via vision-language understanding. I have experience on large-scale dataset generation, distributed training pipeline design, and developing novel architectures to enhance controllability and scalability in real-world AI applications.

Education

KAIST, *Master's degree*, Graduate of Artificial Intelligence Mar 2024 – Feb 2026
(expected)

- Advisor: Prof. Hyunjung Shim
- GPA: 4.20/4.3
- Research area: Generative AI, Vision-Language Models

Sogang University, *Bachelor's degree*, Computer Science and Engineering Mar 2017 – Feb 2024

- GPA: 4.12/4.3 (2nd out of 120, *Summa Cum Laude*)

Publications

*: equal contribution †: corresponding author C: Conference P: Preprint

[C5] 3D-Aware Vision-Language Models Fine-Tuning with Geometric Distillation

Seonho Lee*, Jiho Choi*, Inha Kang, Jiwook Kim, Junsung Park, Hyunjung Shim†

EMNLP 2025 Findings, arXiv:2506.09883

[C4] Fine-Grained Image-Text Correspondence with Cost Aggregation for Open-Vocabulary Part Segmentation

Jiho Choi*, Seonho Lee*, Seungho Lee, Minhyun Lee, Hyunjung Shim†

CVPR 2025, arXiv:2501.09688

[C3] Scribble-Guided Diffusion for Training-free Text-to-Image Generation

Seonho Lee*, Jiho Choi*, Seohyun Lim, Jiwook Kim, Hyunjung Shim†

ICIP 2025, arXiv:2409.08026

[C2] DreamCatalyst: Fast and High-Quality 3D Editing via Controlling Editability and Identity Preservation

Jiwook Kim*, Seonho Lee*, Jaeyo Shin, Jiho Choi, Hyunjung Shim†

ICLR 2025, arXiv:2407.11394

[C1] Understanding Multi-Granularity for Open-Vocabulary Part Segmentation

Jiho Choi*, Seonho Lee*, Seungho Lee, Minhyun Lee, Hyunjung Shim†

NeurIPS 2024, arXiv:2406.11384

[P1] What "Not" to Detect: Improving Object Detection under Negation via Reasoning and Token Merging

Inha Kang, Youngsun Lim, Seonho Lee, Jiho Choi, Junsuk Choi†, Hyunjung Shim†

Under Review

Work Experience

ML Engineer Intern, Snap Inc., Generative ML Team (VideoCraft) Jun 2025 - Sep 2025
(Santa Monica, CA, USA)

- Created cross-reference dataset preprocessing pipeline for personalized video generation
- Developed new model architecture with multi-subject adapters for VideoAlchemist 2.0

Graduate Researcher, KAIST, CVML Lab

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

Mar 2024 - Feb 2026
(Seoul, Republic of Korea)

Research Intern, Korea University, HVCL

- Developed web-based deep-learning software in analysis of pathology
- Designed visual AI programming architecture

Jul 2022 – Aug 2022
(Seoul, Republic of Korea)

Data Engineer, Life Planning Lab

- Developed back-end platform and managed database
- Created a data preprocessor on AWS and built data pipeline for dashboard

Dec 2021 – Jan 2022
(Seoul, Republic of Korea)

Projects

Industrial Project on 3D-aware VLM Finetuning, KAIST w/ Samsung Research

Jun 2024 - Jun 2025

- Electronic Device and Method for Operating Thereof and Storage Medium
- 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

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)

2022 ICPC Asia Korea Regional Contest

Aug 2022

- 48th in Korea, 62nd in Preliminary

Korea National Science and Technology Scholarship

Mar 2019 - Dec 2023

- Spring 2019, Fall 2022, Spring 2023, Fall 2023 (*4 Semesters*, Total 16K USD)

Dean's List, Sogang University

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

Skills

Languages

Python, SQL, C++ , C, JavaScript, Bash, PHP

Tools

Git, Docker, Kubernetes, AWS, Google Cloud, Shell, MLflow

Libraries & Frameworks

PyTorch, TensorFlow, Node.js, OpenGL, CUDA