Griffin Sunho 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 (2^{nd} *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 — Mar 2024 - Feb 2026
(Seoul, Republic of Korea)

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

Research Intern, **Korea University**, HVCL — Jul 2022 – Aug 2022
(Seoul, Republic of Korea)

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

Data Engineer, **Life Planning Lab** — Dec 2021 – Jan 2022
(Seoul, Republic of Korea)

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

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

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

Qualcomm Innovation Fellowship Korea 2025 Finalist — Oct 2025

- Two papers selected by Qualcomm AI Research

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

- 48^{th} in Korea, 62^{nd} 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