

Griffin Sunho Lee

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I specialize in **generative AI** and **perception**, with research on high-dimensional content generation and editing as well as improved perception through **vision-language understanding**. I have worked on large-scale dataset generation, training pipeline design, and developing novel architectures to enhance controllability of real-world AI systems in both academia and industry.

Education

KAIST , Master's degree, Artificial Intelligence (Advisor: Prof. Hyunjung Shim)	Mar 2024 – Feb 2026 (expected)
• 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

[P2] WaymoQA: A Multi-View Visual Question Answering Dataset for Safety-Critical Reasoning in Autonomous Driving

Seungjun Yu, Seonho Lee, Namho Kim, Jaeyo Shin, Junsung Park, Wonjeong Ryu, Raehyuk Jung, Hyunjung Shim†
Under Review , arXiv:2511.20022

[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 , arXiv:2510.13232

Work Experience

ML Engineer Intern, Snap Inc. , Generative ML Team (<i>VideoCraft</i>)	Jun 2025 - Sep 2025 (Santa Monica, CA, USA)
• Led end-to-end design of a cross-reference dataset preprocessing pipeline for personalized video synthesis, enabling scalable multi-subject conditioning across large-scale video dataset	

- Proposed and integrated a multi-subject adapter architecture for *VideoAlchemist 2.0*, improving controllability and subject consistency in personalized text-to-video generation

Graduate Student 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 Engineer 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 Intern, 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 (PartCATSeg, 3D-Aware VLM Finetuning)

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