

SEOHYUN LEE

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Research Interests

Building reliable VLMs for multimodal reasoning and agentic interaction through post-training and inference-time reasoning.

Education

KAIST

M.S. in School of Computing, MLV lab

Daejeon, South Korea

Mar 2026 – Present

Korea University

B.A. in International Studies & B.S. in Computer Science (Double Major)

Seoul, South Korea

GPA: 4.01/4.5

Feb 2026

Career Experience

LG AI Research

Intern, Vision Lab, Deep Document Understanding Squad

Jan 2025 – Mar 2025

- Led development of OCR model integrated into ChatEXAONE's production.

LG AI Research

Intern, EXAONE-VL Post-Training Team

Mar 2025 – Aug 2025

- Worked on EXAONE-VL agentic data generation and supervised fine-tuning (SFT).

Publications

[C3] VideoSearch-R1: Iterative Video Retrieval and Reasoning via Soft Query Refinement [paper]

Seohyun Lee*, Seoung Choi*, Dohwan Ko*, Jongha Kim, Hyunwoo J. Kim

ECCV 2026

[C2] MoE-GRPO: Optimizing Mixture-of-Experts via Reinforcement Learning in Vision-Language Models [paper]

Dohwan Ko, Jinyoung Park, Seoung Choi, Sanghyeok Lee, Seohyun Lee, Hyunwoo J. Kim

CVPR 2026

[W1] DR.SIMON: Domain-wise Rewrite for Segment-Informed Medical Oversight Network [paper]

Seohyun Lee, Suhyun Choe, Jaeha Choi, Jinwon Lee

MEDAGI Workshop @ MICCAI 2025, Best Paper Award

[C1] ODPG: Outfitting Diffusion with Pose-Guided Conditions [paper]

Seohyun Lee*, Jintae Park*, Sanghyeok Park*

VISAPP 2025, Oral Presentation

[T1] Exaone 4.0 VL: Vision-Language Foundation Model for Enterprise AI Agent [video]

Seohyun Lee (Main Contributor), LG AI Research

LG AI Talk Concert 2025

[U2] CEPO: Coordinator-Executor Prompt Optimization for Multi-Agent Document Understanding

Jongha Kim*, Seohyun Lee*, Jonathan Minh Chung, Jinsung Yoon, Hyunwoo J. Kim

In collaboration with Google Cloud AI

Under Review

[U1] Reason in the Words You Speak: Idiolectal Paraphrasing Off-Policy Traces for Reasoning Distillation in VideoLLMs

Ji Soo Lee, Jinyoung Park, Seohyun Lee, Jongha Kim, Joonmyung Choi, Jinsung Yoon, Hyunwoo J. Kim

In collaboration with Google Cloud AI

Under Review

Awards

Best Paper Award, MEDAGI Workshop @ MICCAI 2025

MedAGI · October 2025

DR.SIMON: Domain-Wise Rewrite for Segment-Informed Medical Oversight Network

1st Place, Upstage AI Innovators Challenge

Upstage · Nov 2024

1st Place, KRW 10M Prize, out of 56 teams

1st Place, Ambient AI Competition

Seoul National University · 2024

Developed Assistive Model for Visually Impaired Hikers

1st Place Winner, KU AI Forum Poster Session

Korea University · 2024