

Seoung Choi

M.S. Student, School of Computing, KAIST

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EDUCATION

Korea Advanced Institute of Science & Technology (KAIST), School of Computing

M.S. Student

Sep. 2026 – Present

Korea Advanced Institute of Science & Technology (KAIST), School of Computing

B.S. | GPA: 3.8 / 4.3

Mar. 2021 – Feb. 2026

RESEARCH INTERESTS

- AI agents for automating complex multi-step tasks, video understanding, and multimodal AI systems that better understand, reason over, and interact with visual information.

EXPERIENCE

MLV Lab, KAIST

Intern

Daejeon, Korea

Jun. 2025 – Present

- Conduct research in multimodal AI and vision-language models, advised by Prof. Hyunwoo J. Kim.

Smoretalk

AI Engineer

Korea

Dec. 2024 – Aug. 2025

- Participated in AI service development using image generation and editing technologies.

Naviworks, DX Technology Team

Internship, AI Engineer

Korea

Feb. 2024 – Aug. 2024

- Participated in the metaieyes digital twin platform project, developing product features for converting 2D data into 3D data.

PUBLICATIONS

[U1] Jinyoung Kim, **Seoung Choi**, Jinyoung Park, and Hyunwoo J. Kim. “PORTER: Learning to Route Multimodal LLMs via Behavior-Aware Coresets and Pareto Optimization.” NeurIPS, 2026 (under review).

[C1] Seohyun Lee*, **Seoung Choi***, Dohwan Ko*, Jongha Kim, and Hyunwoo J. Kim. “VideoSearch-R1: Iterative Video Retrieval and Reasoning via Soft Query Refinement.” ECCV, 2026. (*Equal contribution)

[C2] Dohwan Ko, Jinyoung Park, **Seoung Choi**, Sanghyeok Lee, Seohyun Lee, and Hyunwoo J. Kim. “MoE-GRPO: Optimizing Mixture-of-Experts via Reinforcement Learning in Vision-Language Models.” CVPR, 2026.

C: Conference; U: Under Review; P: Patent

PATENT

[P1] Apparatus and method for generating standard objects based on satellite imagery. Korean Patent Application No. 10-2024-0117862, filed Aug. 30, 2024; Publication No. 10-2026-0031996, published Mar. 9, 2026.

SKILLS

Research AI agents, video understanding, multimodal AI, vision-language models, retrieval and reasoning.

Engineering Python, PyTorch, Git, model training and evaluation, AI service prototyping.