

Seungho Shin

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Research Interests

World models, agentic AI, and data-centric AI.

Education

Korea Advanced Institute of Science and Technology (KAIST) Ph.D. in Graduate School of AI Machine Learning and Intelligence Lab (MLILAB), advised by Prof. Eunho Yang	2026.09 – Present
Kyung Hee University M.S. in Artificial Intelligence Visual Artificial Intelligence Lab (VAILAB), advised by Prof. Jung Uk Kim	2024.03 – 2025.08
Kyung Hee University B.S. in Software Convergence	2018.03 – 2024.02

Research Experience

Research Intern , Machine Learning and Intelligence Lab, KAIST, Korea	2025.12 – 2026.08
Research Assistant , Visual Artificial Intelligence Lab, Kyung Hee University, Korea	2025.08 – 2025.11
Research Intern , Visual Artificial Intelligence Lab, Kyung Hee University, Korea	2023.03 – 2024.02
Research Intern , Industrial Artificial Intelligence Lab, Kyung Hee University, Korea	2022.07 – 2023.02
Research Intern , Technology Management Lab, Kyung Hee University, Korea	2022.01 – 2022.06

Publications

*Equal contribution †Corresponding author

International Conference

- [C1] Multispectral Pedestrian Detection with Sparsely Annotated Label**
Chan Lee*, Seungho Shin*, Gyeong-Moon Park†, Jung Uk Kim†
AAAI 2025
[[Paper](#)] [[Code](#)]

International Journal

- [J1] SSMPD: Semi-Supervised Learning for Multispectral Pedestrian Detection**
Seungho Shin*, Chan Lee*, Gyeong-Moon Park†, Jung Uk Kim†
IEEE TMM, Vol. 28, pp. 1806–1819, 2026 (IF 9.7, JCR Top 2.7%)
[[Paper](#)]

Preprint

- [P1] CollabVR: Collaborative Video Reasoning with Vision-Language and Video Generation Models**
Joowon Kim*, Seungho Shin*, Joonhyung Park, Eunho Yang†
Preprint
[[Paper](#)] [[Project Page](#)] [[Code](#)]
- [P2] User-Controllable Dense Video Captioning: A Large-Scale Benchmark and Framework**
Seungho Shin*, Sung Jin Um*, Gyeong-Moon Park†, Jung Uk Kim†
Preprint
[[Paper](#)]

Teaching Experience

Teaching Assistant , Kyung Hee University	
• Software Engineering	Spring 2025
• Web/Python Programming	Fall 2024
• Artificial Intelligence and Ethics	Spring 2024

Academic Service

Conference Reviewer

- NeurIPS 2026

Journal Reviewer

- IEEE TCSVT