

Yunghee Lee

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Google Scholar: scholar.google.com/citations?user=yfWLZ_0AAAAJ | **Github:** github.com/yhlee-add

Education

Korea Advanced Institute of Science and Technology (KAIST)

- B.S. in Computing with a minor in Physics, *Summa cum laude*

Mar 2020 – Feb 2024

Daejeon, Republic of Korea

Publications

C: Conference, J: Journal

[C2] Tortoise and Hare Guidance: Accelerating Diffusion Model Inference with Multirate Integration

Yunghee Lee, Byeonghyun Pak, Junwha Hong, Hoseong Kim

Neural Information Processing Systems (NeurIPS), 2025 [[link](#)]

[C1] LVS: A Learned Video Storage for Fast and Efficient Video Understanding

Yunghee Lee, Jongse Park

CVPR Workshop on Efficient Deep Learning for Computer Vision (ECV), 2024 [[link](#)]

[J1] HybGrasp: A Hybrid Learning-to-Adapt Architecture for Efficient Robot Grasping

Jungwook Mun, Khang Truong Giang, *Yunghee Lee*, Nayoung Oh, Sejoon Huh, Min Kim, Sungho Jo

IEEE Robotics and Automation Letters (RA-L), 2023 [[link](#)]

Experience

Agency for Defense Development (ADD)

Research Officer (First Lieutenant, Republic of Korea Army)

Jun 2024 – Present

Daejeon, Republic of Korea

- Selected as one of 20 research officers nationwide for STEM-based national defense research
- Developed data storage and retrieval systems for surveillance UAVs
- Project: Synthetic Dataset Generation for Air Defense System
 - Constructed synthetic datasets for rare/low-visibility targets via **image/video diffusion models**
 - Accelerated the generation pipeline by $\approx 30\%$ with a novel **multi-rate integration** method
 - 1 Publication in NeurIPS 2025 [[project page](#)]

Computer Architecture and Systems Lab @ KAIST

Undergraduate Research Intern (advisor: Prof. Jongse Park)

Jan 2023 – Mar 2024

Daejeon, Republic of Korea

- Project: Learned Video Storage for Video Understanding
 - Developed video storage systems that can **serve ML-based video features efficiently**
 - Built a feature fusion network and a cost model to **reconstruct features from subfeatures**
 - 1 Publication in ECV 2024

Neuro-Machine Augmented Intelligence Lab @ KAIST

Undergraduate Research Intern (advisor: Prof. Sungho Jo)

Jan 2022 – Aug 2022

Daejeon, Republic of Korea

- Project: Robot Grasping for Various Gripper Designs
 - Developed robotic arm control algorithms that can **adapt to different gripper designs**
 - Accelerated training data generation pipelines with multiprocessor and GPU parallelism
 - 1 Publication in RA-L 2023