

# Yunghee Lee

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## Education

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### 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

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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

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### 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