

Hyunseo Lee

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EDUCATION

Kyungpook National University

B.S. in Computer Science

- GPA: **4.4 / 4.5** (Overall), **4.48 / 4.5** (Major)

Daegu, South Korea

03/2021 – Present

WORK EXPERIENCE

Research Intern

Visual Intelligence Lab @ETRI

- Advisor: **Researcher. Jaeseok Ham**
- Project: Vehicle benchmark dataset construction & baseline model

Daejeon, South Korea

01/2026 – Present

Research Intern

Visual AI Group @KAIST

- Advisor: **Prof. Minhyuk Sung**
- Project: Applying Discrete Flow Matching in Sketch Dataset

Daejeon, South Korea

06/2025 – 08/2025

Research Intern

PRMI Lab @Kyungpook National University

- Advisor: **Prof. Woojeoung Nam**
- Thesis: OSCAR: Optical-aware Semantic Control for Aleatoric Refinement in SAR-to-Optical Translation

Daegu, South Korea

03/2023 – Present

PUBLICATIONS

1. **Hyunseo Lee**, Sangmin Kim, Hokyung Shin, Taeheon Kim, Woojeoung Nam[†], "OSCAR: Optical-aware Semantic Control for Aleatoric Refinement in Sar-to-Optical Translation", arXiv, Jan. 2026. [\[Paper\]](#) [\[Code\]](#)

RESEARCH EXPERIENCES

Automated Framework for V2X-based Cooperative Trajectory Forecasting

ETRI Visual Intelligence Lab

01/2026 – Present

- Implemented a fully automated pipeline to streamline dataset construction for vehicle trajectory prediction. Furthermore, established a robust baseline model to evaluate the effectiveness of the generated dataset.
- Role: Responsible for all stages of the project under the guidance of a senior researcher.

Implementation of Discrete Flow Matching test bed

KAIST Visual AI Group

06/2025 – 08/2025

- To analyze the differences between continuous and discrete flow matching, and to distinguish discrete flow matching from autoregressive models, I implemented a testbed from scratch for rigorous verification
- Role: Responsible for all stages of the project under the guidance of a senior researcher.
- [\[Github\]](#)

Pansharpener and SAR-to-Optical

KNU PRMI Lab

03/2025 – Present

- In collaboration with the Korea Aerospace Research Institute (KARI), I implemented SOTA models for pansharpener and SAR-to-optical translation
- Role: Responsible for all stages of the project under the guidance of a senior researcher.
- [\[Project page\]](#)

AWARDS AND HONORS

Academic Excellence Scholarship (Full Tuition)

03/2022 – Present

- Awarded for 6 consecutive semesters for maintaining a top-tier GPA.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, Matlab

Frameworks: PyTorch, Tensorflow, OpenCV, NextJS

Developer Tools: Git, Docker, K8s, Conda, Cursor \LaTeX