



YERANG LEE

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RESEARCH INTERESTS

Visual Representation Learning, Image/Video Generation, Open-Vocabulary Visual Understanding

EDUCATION

Seoul National University of Science and Technology (SeoulTech) *Aug. 2024 – Present*

M.S. in Applied Artificial Intelligence, GPA: 4.50/4.50 (Coursework completed)

Advisor: Beom-Seok Oh — Expected graduation: Aug. 2026

Seoul National University of Science and Technology (SeoulTech) *Mar. 2021 – Aug. 2024*

B.S. in Applied Artificial Intelligence, GPA: 4.29/4.50

RESEARCH EXPERIENCE

Satellite Imagery-based Livestock Facility Monitoring *Jun. 2024 – Nov. 2025*

· *Graduate Researcher*, Supported by the National Institute of Environmental Research.

AI-based Dog Body Length Measurement *Jan. 2024 – Feb. 2024*

· *Undergraduate Researcher*, AI Seoul Fellow Program, in collaboration with Petnow Inc.

LiDAR-based Illegal Hiking Detection System *Apr. 2023 – Sep. 2023*

· *Undergraduate Researcher*, WISET Engineering Research Team Program

PUBLICATIONS

Domestic Journal

[1] **Grouping of 3D LiDAR Point Cloud with Varying Radius for Object Segmentation**

Sebin Heo, **Yerang Lee**, Gaeun Kim, Jeongyeon Kim, and Beom-Seok Oh

Journal of the Institute of Electronics and Information Engineers, Vol. 61, No. 4, pp. 37–48, Apr. 2024.

Domestic Conferences

[5] **HeteroBarnMapper: A Detection-to-Mapping System for Heterogeneous Livestock Facilities with Reliable Evaluation**

Yerang Lee, Youngmin Jeong, and Beom-Seok Oh

Summer Annual Conference of IEIE, Jun. 2025. (*Oral Presentation*)

[4] **DualLCFormer: Livestock Facility Detection using a Dual Encoder Architecture with Land Cover Fusion**

Youngmin Jeong, **Yerang Lee**, and Beom-Seok Oh

Summer Annual Conference of IEIE, Jun. 2025.

[3] **A Hierarchy Loss Function for Animal Image Classification Performance Enhancement**

Yerang Lee, Minki Jeong, Daeil Han, and Beom-Seok Oh

Summer Annual Conference of IEIE, Jun. 2024.

[2] **Focus and Weave It: SR-GNN Lightweight for Mobile Vision Applications**

Minki Jeong, **Yerang Lee**, Daeil Han, and Beom-Seok Oh

Summer Annual Conference of IEIE, Jun. 2024.

[1] **Variable Distance-based 3D LiDAR Point Cloud Grouping for Object Segmentation**

Sebin Heo, **Yerang Lee**, Gaeun Kim, Jeongyeon Kim, and Beom-Seok Oh

Summer Annual Conference of IEIE, Jun. 2023. (*Best Student Paper Award*)

GRANTS AND AWARDS

• Grand Prize (Track 2), 2025 Space Hackathon, Korea AeroSpace Administration *Nov. 2025*

• Future Leader Scholarship, SeoulTech *Sep. 2024 – Dec. 2025*

• AIS Scholarship (Full Tuition), SeoulTech *Mar. 2021 – Aug. 2024*

SKILLS

Programming Python, C/C++, MATLAB

Frameworks and Tools PyTorch, Git, QGIS, Figma

Languages Korean (Native), English (Intermediate)