

HONGGYU AN

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RESEARCH INTEREST

Depth Estimation, Neural Radiance Field, Matching

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) Sep. 2024 - Present
M.S/Ph.D integrated in Computer Science and Engineering
Supervisor: Seungryong Kim
Seoul, Korea

Korea University Mar. 2024 - Aug. 2024
M.S in Computer Science and Engineering
Supervisor: Seungryong Kim
Seoul, Korea

Korea University Mar. 2020 - Feb. 2024
B.S. in Department of Computer Science and Engineering
GPA: 4.33 / 4.5
Seoul, Korea

EXPERIENCE

CVLAB, Korea University Jan. 2022 - Feb. 2024
Research Intern
Supervisor: Seungryong Kim
Seoul, Korea

PUBLICATION

Honggyu An*, Jinhyeon Kim*, Seonghoon Park, **Jaewoo Jung**, Jisang Han, Sunghwan Hong, and Seungryong Kim, "Cross-View Completion Models are Zero-shot Correspondence Estimators", *Computer Vision and Pattern Recognition Conference (CVPR)*, 2025.

Seokju Cho, Jiahui Huang, Jisu Nam, **Honggyu An**, Seungryong Kim[†], and Joon-Young Lee[†], "Local All-Pair Correspondence for Point Tracking", *The European Conference on Computer Vision (ECCV)*, 2024.

• Point Tracking

Jaewoo Jung*, Jisang Han*, **Honggyu An***, Jiwon Kang*, Seonghoon Park*, and Seungryong Kim, "RAIN-GS: Relaxing Accurate Initialization Constraint for 3D Gaussian Splatting", **under review**.

• 3D Gaussian Splatting

Jongbeom Baek*, Gyeongnyeon Kim*, Seonghoon Park*, **Honggyu An**, Matteo Poggi, and Seungryong Kim, "MaskingDepth: Masked Consistency Regularization for Semi-supervised Monocular Depth Estimation", *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2024.

• Monocular depth estimation, Semi-supervised learning

Jiuhn Song*, Seonghoon Park*, **Honggyu An***, Seokju Cho, Min-Seop Kwak, Sungjin Cho, and Seungryong Kim, "DäRF: Boosting Radiance Fields from Sparse Input Views with Monocular Depth Adaptation", *Neural Information Processing Systems (NeurIPS)*, 2023.

• NeRF, Monocular depth estimation

PROJECTS

Prior research on Multi-Frame Based Depth Estimation for Improving Spatial Recognition

Hyundai Motors

Jun. 2023 - Present

- Multi-Frame depth estimation, Semantic segmentation

Context and Activity Analysis-based Solution for Safe Childcare

Yonsei University

Jan. 2023 - Dec. 2023

- Object Tracking, Re-identification, Human pose estimation

Prior research for advanced semantic segmentation performance

Hyundai Motors

Mar. 2022 - Nov. 2022

- Depth estimation, Semantic segmentation
- Domain adaptation, Multi-task learning, Semi-supervised learning

ACADEMIC SERVICE

Academic Reviewer

2024 - IROS, ICRA