Jihun Kim

PhD candidate in KAIST
Advisor: Kuk-Jin Yoon

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Personal Data

- **Birth / Nationality**: 6th January, 1998 / Republic of Korea
- **Language**: Korean(First language), English

Education

- **Korea Advance Institute of Science and Technology (KAIST)** — Daejeon, South Korea
  PhD candidate in Mechnaical Engineering (GPA: 4.15/4.3) — March 2023 - Present
  Advisor: Kuk-Jin Yoon
- **Korea Advance Institute of Science and Technology (KAIST)** — Daejeon, South Korea
  MS in Mechnaical Engineering (GPA: 4.21/4.3) — September 2021 - February 2023
  Advisor: Kuk-Jin Yoon
- **Korea Advance Institute of Science and Technology (KAIST)** — Daejeon, South Korea
  BS in School of Computing (GPA: 3.90/4.3) — March 2017 - August 2021
- **Gwangju Science Academy for the Gifted** — Gwangju, South Korea
  Graduation — March 2014 - February 2017

Research Interest

- **Computer Vision and Deep Learning**
  - Point Cloud, LiDAR
  - Data Completion
  - Semantic Segmentation
  - Weakly/Unsupervised Learning
  - Domain/Test-time Adaptation

Publications

- Hyunkurl Jang*, **Jihun Kim***, Hyeokjun Kweon*, and Kuk-Jin Yoon, "TALoS: Enhancing Semantic Scene Completion via Test-time Adaptation on the Line of Sight," Thirty-Eighth Annual Conference on Neural Information Processing Systems (NIPS), 2024. (*: Equal Contribution)
- Yunseo Yang*, **Jihun Kim***, and Kuk-Jin Yoon, "Syn-to-Real Domain Adaptation for Point Cloud 001 002 Completion via Part-based Approach," The 18th European Conference on Computer Vision (ECCV), 2024. (*: Equal Contribution)
- Hyeokjun Kweon*, **Jihun Kim***, and Kuk-Jin Yoon, "Weakly Supervised Point Cloud Semantic Segmentation via Artificial Oracle," Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2024. (*: Equal Contribution)
- **Jihun Kim**, Hyeokjun Kweon, Yunseo Yang, and Kuk-Jin Yoon, "Learning Point Cloud Completion without Complete Point Clouds: A Pose-aware Approach," 2023 IEEE/CVF International Conference on Computer Vision (ICCV), 2023.

Projects

- Autonomous ship collision and accident prevention situation awareness system — 2021 - 2022
- Surround view depth estimation for autonomous vehicle systems — 2023 - 2024
- Unmanned Swarm CPS Research Laboratory Program of Defense Acquisition Program — 2024 - 2025

Honors and Awards

- Dean's List, KAIST — 2017