

Hyun-Kurl Jang

Ph.D. student in KAIST
Advisor: Kuk-Jin Yoon

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PERSONAL DATA

- **Nationality:** Republic of Korea
- **Language:** Korean(First language), English

EDUCATION

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|------------------------------------------------------------------------------------|------------------------------|
| • Korea Advance Institute of Science and Technology (KAIST) | Daejeon, South Korea |
| • PhD candidate in Mechnaical Engineering (GPA: 4.09/4.3)
Advisor: Kuk-Jin Yoon | September 2023 - Present |
| • Korea Advance Institute of Science and Technology (KAIST) | Daejeon, South Korea |
| • MS candidate in Mechnaical Engineering (GPA: 4.15/4.3)
Advisor: Kuk-Jin Yoon | September 2022 - August 2023 |
| • Korea Advance Institute of Science and Technology (KAIST) | Daejeon, South Korea |
| • BS in Mechanical Engineering (GPA: 3.57/4.3) | March 2016 - August 2022 |

RESEARCH INTEREST

- **Computer Vision and Deep Learning**
 - 3D perception
 - Test-time Adaptation
 - Semantic Segmentation

PUBLICATIONS

(* denotes equal contribution.)

- [Preprint] Jihun Kim*, **Hyun-Kurl Jang***, Hyemin Yang*, Jinnyeong Yang*, Hyekjun Kweon, Kuk-Jin Yoon. “LiDAR-SAM2: Label-Free Interactive Segmentation for LiDAR Stream”
- [Preprint] Hyeonseong Kim*, **Hyun-Kurl Jang***, Kuk-Jin Yoon. “Test-Time Training for LiDAR Semantic Segmentation under Corruption via Geometric Inlier Discrimination”
- [Preprint] **Hyun-Kurl Jang***, Jihun Kim*, Hyekjun Kweon, Kuk-Jin Yoon . “Distill Once, Adapt Life-Long: Exploring Dataset Distillation for Continual Test-Time Adaptation”
- [Preprint] Yuhwan Jeong*, Hyeonseong Kim*, Daehyun We*, Seonkyu Song*, Jinnyeong Yang*, **Hyun-Kurl Jang**, Youngho Yoon, Seokwoo Jung, Kuk-Jin Yoon. “FrozenDrive: Zero-Shot Text-Guided Multi-View Driving Scene Generation with Parameter-Free Frozen Diffusion Model for Autonomous Driving in the Wild”
- [NeurIPS 2024] **Hyun-Kurl Jang***, Jihun Kim*, Hyekjun Kweon*, and Kuk-Jin Yoon. “TALoS: Enhancing Semantic Scene Completion via Test-time Adaptation on the Line of Sight”
- [ECCV 2024] Youngho Yoon*, **Hyun-Kurl Jang***, and Kuk-Jin Yoon. “GMT: Enhancing Generalizable Neural Rendering via Geometry-Driven Multi-Reference Texture Transfer”
- [CVPR 2023, Highlight] Taewoo Kim, Yujeong Chae, **Hyun-Kurl Jang**, and Kuk-Jin Yoon. “Event-based Video Frame Interpolation with Cross-Modal Asymmetric Bidirectional Motion Fields” (**Top2.5% of submissions**)

PROJECTS

- AI Research for Intelligent X-ray Luggage Scanning System 2022 - 2024
- 2025 HMG Autonomous Driving Challenge – Advisor 2024 - 2024
- Data Augmentation and Sensor Fusion Techniques for Robust Autonomous Driving - 42dot 2025 -
- Development for Autonomous Driving in Unstructured Off-Road Environments - Hanwha Aerospace 2025 -

HONORS AND AWARDS

Reviewer of Top-tier conferences: CVPR, ICCV, ECCV, NeurIPS

- Selected as a NeurIPS 2025 Top Reviewer 2025
- Gold prize in Best Paper Awards during 35th Workshop on Image Processing and Image Understanding 2023