

# Hyun-Kurl Jang

Ph.D. student in KAIST

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## PERSONAL DATA

- **Nationality:** 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: 4.09/4.3)  
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