

Gyeongrok Oh

CONTACT INFORMATION	Gyeongrok Oh Seoul, Korea	 Homepage ✉ dhrudfhr98@korea.ac.kr
RESEARCH BACKGROUND	Computer Vision / Deep Learning Generative Model: Multi-modal Representation Learning Embodied AI: 3D Visual Perception, Vision-Language Navigation Machine Learning: Domain Adaptation, Test-time Adaptation	
EDUCATION	Ph.D. in Artificial Intelligence, Korea University, GPA: 4.28/4.5 Advisor: Prof. Sangpil Kim	Sep. 2022– Current
	B.S. in Computer Science, Inha University, GPA: 4.0/4.5 Advisor: Prof. Jinman Jung	Mar. 2016– Aug. 2022
RESEARCH EXPERIENCE	Samsung Advanced Institute of Technology (SAIT) <i>Visiting Researcher @ Computer Vision Lab</i> Advisors: Ph.D. Sujin Jang Projects: Autonomous Driving, Vision-Language Navigation	Jan. 2024– Feb. 2025
	Korea University <i>Research Intern @ Computer Vision Lab</i> Advisors: Prof. Sangpil Kim Projects: Generative Model, Multi-modal Fusion	Dec. 2021– Aug. 2022
JOURNAL PUBLICATIONS (†Equal contribution)	[P1]. MinHyuk Jang, Youngdong Jang, JaeHyeokLee, Feng Yang, Gyeongrok Oh , Jongheon Jeong, Sangpil Kim “ LVMARK: Robust Watermark for Latent Video Diffusion Models ”, In <i>Submission</i> , 2025.	
	[J3]. Gyeongrok Oh , Sungjune Kim, Heon Gu, Sang Ho Yoon, Jinkyu Kim, Sangpil Kim, “ FPANet: Frequency-based Video Demoireing using Frame-level Post Alignment ”, <i>Neural Networks</i> , 2025, JCR 10% .	
	[J2]. Seunghyun Lee [†] , Hyung-gun Chi [†] , Gyeongrok Oh , Wonmin Byeon, Sang Ho Yoon, Hyunje Park, Wonjun Cho, Jinkyu Kim*, Sangpil Kim*, “ Robust Sound-Guided Image Manipulation ”, <i>Neural Networks</i> , 2024, JCR 10% .	
	[J1]. Seung Hyun Lee [†] , Sieun Kim [†] , Wonmin Byeon, Gyeongrok Oh , Sumin In, Hyeongcheol Park, Sang Ho Yoon, Sung-hee Hong, Jinkyu Kim*, and Sangpil Kim*, “ Audio-Guided Implicit Neural Representation for Local Image Stylization ”, In <i>Computational Visual Media</i> , 2024, JCR 10% .	
CONFERENCE PUBLICATIONS (†Equal contribution)	[P1]. Gyeongrok Oh , Youngdong Jang, Jonghyun Choi, Suk-Ju Kang, Guang Lin, Sangpil Kim, “ ICP-4D: Bridging Iterative Closest Point and LiDAR Panoptic Segmentation ”, In <i>Submission</i> , 2026.	
	[C7]. Heejoo Ko, Sungjune Kim, Gyeongrok Oh , Jeongyoon Yoon, Honglak Lee, Sujin Jang, Seungryong Kim, Sangpil Kim “ Active Test-time Vision-Language Navigations ”, In <i>NeurIPS</i> , 2025.	
	[C6]. Sungjune Kim [†] , Gyeongrok Oh [†] , Heejoo Ko, Daehyun Ji, Dongwook Lee, Byung-Jun Lee, Sujin Jang*, Sangpil Kim* “ Test-time Adaptation for Online Vision-Language Navigation with Feedback-based Reinforcement Learning ”, In <i>ICML</i> , 2025.	
	[C5]. Gyeongrok Oh [†] , Sungjune Kim [†] , Heejoo Ko, Hyung-gun Chi, Jinkyu Kim, Dongwook Lee, Daehyun Ji, Sungjoon Choi, Sujin Jang*, Sangpil Kim* “ 3D Occupancy Prediction with Low-Resolution Queries via Prototype-aware View Transformation ”, In <i>CVPR</i> , 2025.	
	[C4]. Gyeongrok Oh , Jaehwan Jeong, Sieun Kim, Wonmin Byeon, Jinkyu Kim, Sungwoong Kim, Sangpil Kim, “ MEVG: Multi-event Video Generation with Text-to-Video Models ”, In <i>ECCV</i> , 2024.	

[C3]. Gyusam Chang[†], Wonseok Roh[†], Sujin Jang, Dongwook Lee, Daehyun Ji, **Gyeongrok Oh**, Jinsun Park, Jinkyu Kim*, Sangpil Kim*, “CMDA: Cross-Modal and Domain Adversarial Adaptation for LiDAR-based 3D Object Detection”, In **AAAI**, 2024.

[C2]. Wonseok Roh, Seung hyun Lee, Won Jeong Ryoo, **Gyeongrok Oh**, Jakyung Lee, Soo Yeon Hwang, Hyung-gun Chi, Sangpil Kim, “Functional Hand Type Prior for 3D Hand Pose Estimation and Action Recognition from Egocentric View Monocular Videos”, In **BMVC (Oral)**, 2023.

[C1]. Seung hyun Lee, **Gyeongrok Oh**, Wonmin Byeon, Chanyoung Kim, Won Jeong Ryoo, Sang Ho Yoon, Jihyun Bae, Jinkyu Kim*, Sangpil Kim*, “Sound-Guided Semantic Video Generation”, In **ECCV**, 2022.

SKILLS

Programming Languages: Python, C/C++

Tools: PyTorch, TensorFlow, JAX

TEACHING EXPERIENCE

Korea University, Seoul, Korea

- Teaching Assistant of Statistics (2023)
- Teaching Assistant of Computer Vision (2025)

LG CNS, Seoul, Korea

- Teaching Assistant of Anomaly Detection Course for LG CNS Executives and Employees (2022, 2023)

Inha University, Incheon, Korea

- Teaching Assistant of Data Structure (2021)

AWARDS & HONORS

BK 21 Academic Excellence Scholarship for freshmen

Inha AI challenge (Face Recognition)

- **1st Place**, 2021

Departmental Scholarship, Dept of Computer Science, Inha University

- Mar.& Sep. 2020, Mar. 2021, Mar. 2022

ACADEMIC SERVICES

Conference Reviewer.

- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2024, 2025, 2026
- CVF/IEEE International Conference on Computer Vision (ICCV), 2025
- IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2023, 2025, 2026

Program Committee.

- The Association for the Advancement of Artificial Intelligence (AAAI), 2025, 2026