

CONTACT INFORMATION	Gyeongrok Oh Seoul, Korea	 <b>Homepage</b>  <a href="mailto:dhruafh98@korea.ac.kr">dhruafh98@korea.ac.kr</a>
RESEARCH BACKGROUND	<b>Computer Vision / Deep Learning</b> Generative Model: Multi-modal Representation Learning Embodied AI: 3D Visual Perception, Vision-Language Navigation Machine Learning: Domain Adaptation, Test-time Adaptation	
EDUCATION	<b>Ph.D.</b> in Artificial Intelligence, Korea University, GPA: 4.28/4.5 Advisor: <a href="#">Prof. Sangpil Kim</a> Sep. 2022– Current	
	<b>B.S.</b> in Computer Science, Inha University, GPA: 4.0/4.5 Advisor: <a href="#">Prof. Jinman Jung</a> Mar. 2016– Aug. 2022	
RESEARCH EXPERIENCE	<b>Samsung Advanced Institute of Technology (SAIT)</b> <i>Visiting Researcher @ Computer Vision Lab</i> Advisors: <a href="#">Ph.D. Sujin Jang</a> Projects: Autonomous Driving, Vision-Language Navigation Jan. 2024– Feb. 2025	
	<b>Korea University</b> <i>Research Intern @ Computer Vision Lab</i> Advisors: <a href="#">Prof. Sangpil Kim</a> Projects: Generative Model, Multi-modal Fusion Dec. 2021– Aug. 2022	
JOURNAL PUBLICATIONS (†Equal contribution)	<p>[J3]. Gyeongrok Oh, Sungjune Kim, Heon Gu, Sang Ho Yoon, Jinkyu Kim, Sangpil Kim, “<a href="#">FPANet: Frequency-based Video Demoireing using Frame-level Post Alignment</a>”, <i>Neural Networks</i>, 2025, JCR 10%.</p> <p>[J2]. Seunghyun Lee†, Hyung-gun Chi†, Gyeongrok Oh, Wonmin Byeon, Sang Ho Yoon, Hyunje Park, Wonjun Cho, Jinkyu Kim*, Sangpil Kim*, “<a href="#">Robust Sound-Guided Image Manipulation</a>”, <i>Neural Networks</i>, 2024, JCR 10%.</p> <p>[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*, “<a href="#">Audio-Guided Implicit Neural Representation for Local Image Stylization</a>”, In <i>Computational Visual Media</i>, 2024, JCR 10%.</p>	
CONFERENCE PUBLICATIONS (†Equal contribution)	<p>[C5]. Gyeongrok Oh†, Sungjune Kim†, Heeju Ko, Hyung-gun Chi, Jinkyu Kim, Dongwook Lee, Daehyun Ji, Sungjoon Choi, Sujin Jang*, Sangpil Kim* “<a href="#">3D Occupancy Prediction with Low-Resolution Queries via Prototype-aware View Transformation</a>”, In <i>CVPR</i>, 2025.</p> <p>[C4]. Gyeongrok Oh, Jaehwan Jeong, Sieun Kim, Wonmin Byeon, Jinkyu Kim, Sungwoong Kim, Sangpil Kim, “<a href="#">MEVG: Multi-event Video Generation with Text-to-Video Models</a>”, In <i>ECCV</i>, 2024.</p> <p>[C3]. Gyusam Chang†, Wonseok Roh†, Sujin Jang, Dongwook Lee, Daehyun Ji, Gyeongrok Oh, Jinsun Park, Jinkyu Kim*, Sangpil Kim*, “<a href="#">CMDA: Cross-Modal and Domain Adversarial Adaptation for LiDAR-based 3D Object Detection</a>”, In <i>AAAI</i>, 2024.</p> <p>[C2]. Wonseok Roh, Seung hyun Lee, Won Jeong Ryoo, Gyeongrok Oh, Jakyung Lee, Soo Yeon Hwang, Hyung-gun Chi, Sangpil Kim, “<a href="#">Functional Hand Type Prior for 3D Hand Pose Estimation and Action Recognition from Egocentric View Monocular Videos</a>”, In <i>BMVC (Oral)</i>, 2023.</p> <p>[C1]. Seung hyun Lee, Gyeongrok Oh, Wonmin Byeon, Chanyoung Kim, Won Jeong Ryoo, Sang Ho Yoon, Jihyun Bae, Jinkyu Kim*, Sangpil Kim*, “<a href="#">Sound-Guided Semantic Video Generation</a>”, In <i>ECCV</i>, 2022.</p>	

[P1]. Sungjune Kim†, **Gyeongrok Oh**†, Heeju 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 *Submission*, 2025.

[P2]. MinHyuk Jang, Youngdong Jang, JaeHyeokLee, Feng Yang, **Gyeongrok Oh**, Jongheon Jeong, Sangpil Kim “LVMark: Robust Watermark for Latent Video Diffusion Models”, In *Submission*, 2025.

#### SKILLS

**Programming Languages:** Python, C/C++

**Tools:** PyTorch, TensorFlow, JAX

#### TEACHING EXPERIENCE

**Korea University**, Seoul, Korea

- Teaching Assistant of Statistics (2023)

**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
- CVF/IEEE International Conference on Computer Vision (ICCV), 2025
- IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2023

**Program Committee.**

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