


Gyeongrok Oh

CONTACT INFORMATION

Gyeongrok Oh
Seoul, Korea

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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 Sep. 2022– Current
Advisor: [Prof. Sangpil Kim](#)

B.S. in Computer Science, Inha University, GPA: 4.0/4.5 Mar. 2016– Aug. 2022
Advisor: [Prof. Jinman Jung](#)

RESEARCH EXPERIENCE

Samsung Advanced Institute of Technology (SAIT) Jan. 2024– Feb. 2025
Visiting Researcher @ Computer Vision Lab

Advisors: [Ph.D. Sujin Jang](#)

Projects: Autonomous Driving, Vision-Language Navigation

Korea University Dec. 2021– Aug. 2022
Research Intern @ Computer Vision Lab

Advisors: [Prof. Sangpil Kim](#)

Projects: Generative Model, Multi-modal Fusion

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 *Sub-
mission*, 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](#)”, *Neural Net-
works*, 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 Manip-
ulation](#)”, *Neural Networks*, 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 *Computational Visual Media*, 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 *Sub-
mission*, 2026.

[C7]. Heeju Ko, Sungjune Kim, **Gyeongrok Oh**, Jeongyoon Yoon, Honglak Lee, Sujin Jang, Seungryong Kim, Sangpil Kim “[Active Test-time Vision-Language Navigations](#)”, In *NeurIPS*, 2025.

[C6]. 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 *ICML*, 2025.

[C5]. **Gyeongrok Oh**[†], Sungjune Kim[†], Heeju 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 *CVPR*, 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 *ECCV*, 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, Ji Hyun 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