

Junho Park

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RESEARCH INTEREST

My research focuses on **3D human hand and egocentric vision** to enable robots to understand and collaborate with humans in daily environments. I develop **generative and learning-based models** that connect human perception with robot manipulation, aiming to build systems capable of **robot learning from human data and human-robot alignment**.

EDUCATION

Sogang University, South Korea Feb. 2024

M.S., Electronic Engineering – Advisor: Prof. Suk-Ju Kang

- Thesis: 3D Hand Dataset Generation Framework with Pose-guided Text-to-Image Diffusion Model

Sogang University, South Korea Feb. 2022

B.S., Mathematics and Electronic Engineering (Double Major)

RESEARCH EXPERIENCE

LG Electronics, South Korea | *Computer Vision Research Engineer* Mar. 2024 – Present

- Led by Dr. Jaechul Kim (VP) – Contributed to a **Multi-Task Vision Foundation Model for On-Device** (object detection, panoptic segmentation, depth estimation, pose estimation, and face recognition); showcased at **CES 2025** and **LG Tech Fair 2025**
- Built **Large-Scale Generative Datasets** with diffusion models for robust recognition
- Submitted 1 paper – 1 CVPR 2026 (under review)

Sogang University, South Korea | *Master Student* Mar. 2022 – Feb. 2024

- Advised by Prof. Suk-Ju Kang – Focused on diffusion models, large language models, hand-object interaction, pose estimation, and machine learning
- Published 8 first-author papers – **1 ECCV 2024 Oral, 2 ECCV 2024 Workshop, 1 ICCV 2025 Workshop, 1 ICCV 2023 Workshop, 1 IEEE TMM, 1 IEEE TIM, 1 IEEE Access**

Sogang University, South Korea | *Undergraduate Student* Jul. 2021 – Dec. 2021

- Advised by Prof. Myoung-Wan Koo – Developed a speech recognition system for identifying hazardous events in CCTV blind spots, enabling timely response and reinforcing public safety
- Awarded 1st place in AI Grand Challenge 2021

RESEARCH COLLABORATION

Meta Reality Labs & VGG, University of Oxford & KAIST Oct. 2024 – Present

- Collaborated with Dr. Taein Kwon – Developed a framework for translating exocentric observations to egocentric views for understanding egocentric vision
- Published 2 first-author papers – **1 ICLR 2026, 1 ICCV 2025 Workshop**

Pusan National University, South Korea Jul. 2023 – Feb. 2025

- Collaborated with Prof. Kyeongbo Kong – Worked on generative models, such as diffusion-based hand image generation and LLM-based 3D room generation
- Published 4 first-author papers – **1 ECCV 2024 Oral, 1 ECCV 2024 Workshop, 1 ICCV 2023 Workshop, 1 IEEE TMM**

Samsung Electronics, South Korea Mar. 2023 – Feb. 2024

- Designed a deep learning pipeline for SEM image restoration and structure prediction
- Published 1 first-author paper – **1 IEEE TIM**

Korea Electronics Technology Institute (KETI), South Korea Mar. 2022 – Feb. 2023

- Developed a calibration-free gaze estimation algorithm suitable for public use
- Published 1 first-author paper – **1 IEEE Access**

PUBLICATIONS

1. [ICLR 2026] **Junho Park**, Andrew Sangwoo Ye, Taein Kwon†. EgoWorld: Translating Exocentric View to Egocentric View using Rich Exocentric Observations. (†: Corresponding Author.) [Project Page] [Paper]
2. [ICCVW 2025] Minsuh Song*, **Junho Park***, Suk-Ju Kang†. Replace-in-Ego: Text-Guided Object Replacement in Egocentric Hand-Object Interaction. (*: Equal Contribution, †: Corresponding Author.) [Paper]
3. [ICCVW 2025] **Junho Park**, Andrew Sangwoo Ye, Taein Kwon†. Generating Egocentric View from Exocentric View via Multimodal Observations. (†: Corresponding Author.) [Paper]
4. [ECCV 2024] **Junho Park***, Kyeongbo Kong*, Suk-Ju Kang†. AttentionHand: Text-driven Controllable Hand Image Generation for 3D Hand Reconstruction in the Wild. (*: Equal Contribution, †: Corresponding Author.) [Project Page] [Paper] (Oral Presentation, Acceptance Rate: 2.3%)
5. [ECCVW 2024] Jihyun Kim*, **Junho Park***, Kyeongbo Kong*, Suk-Ju Kang†. Interactive 3D Room Generation for Virtual Reality via Compositional Programming. (*: Equal Contribution, †: Corresponding Author.) [Paper] (Oral Presentation)
6. [ECCVW 2024] **Junho Park***, Yeieun Hwang*, Suk-Ju Kang†. Diffusion-based Interacting Hand Pose Transfer. (*: Equal Contribution, †: Corresponding Author.) [Paper]
7. [ICCVW 2023] **Junho Park***, Kyeongbo Kong*, Suk-Ju Kang†. A Novel Framework for Generating In-the-Wild 3D Hand Datasets. (*: Equal Contribution, †: Corresponding Author.) [Paper]
8. [IEEE TMM] Jihyun Kim*, **Junho Park***, Kyeongbo Kong*, Suk-Ju Kang†. Programmable-Room: Interactive Textured 3D Room Meshes Generation Empowered by Large Language Models. (*: Equal Contribution, †: Corresponding Author.) [Project Page] [Paper]
9. [IEEE TIM] **Junho Park**, Yubin Cho, Yeieun Hwang, Ami Ma, QHwan Kim, Kyu-Baik Chang, Jaehoon Jeong, Suk-Ju Kang†. Mixup-based Neural Network for Image Restoration and Structure Prediction from SEM Images. (†: Corresponding Author.) [Paper]
10. [IEEE Access] Joseph Kihoon Kim*, **Junho Park***, Yeon-Kug Moon†, Suk-Ju Kang†. Improving Gaze Tracking in Large Screens with Symmetric Gaze Angle Amplification and Optimization Technique. (*: Equal Contribution, †: Corresponding Author.) [Paper]
11. [Under Review] Jonghyun Kim, Yubin Yoon, Bo-Sang Kim, Hyoyoung Kim, **Junho Park**, Jungho Lee†, Jaechul Kim†. Single Query to Bind Them: Unified Representations for Efficient Human Pose Estimation. (†: Corresponding Author.)

ACADEMIC SERVICES

Conference Reviewer

ICCV (2025–), WACV (2026–)

Journal Reviewer

IEEE TII (2024–), TCSVT (2025–)

HONORS, AWARDS, SCHOLARSHIP

LG Electronics

Full-funding Scholarship for Master's Program, 2021

Ministry of Science and ICT

1st Place, AI Grand Challenge, 2021 [Press]

SKILLS

Languages

English (fluent), Korean (native)

ML Frameworks

PyTorch, Huggingface, PyTorch Lightning, Tensorflow

Data Analytics

Numpy, Matplotlib, SciPy, Pandas, Seaborn

SW Engineering Tools

Python, C++, Git-based workflow, CUDA, Shell, Linux, Docker, Slurm