

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 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
- Co-authored 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
- Co-authored 9 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**, 1 **IEEE TMM** (under review)

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
- Co-authored 2 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
- Co-authored 4 papers – 1 **ECCV 2024 Oral**, 1 **ECCV 2024 Workshop**, 1 **ICCV 2023 Workshop**, 1 **IEEE TMM**

Samsung Electronics AI Center, South Korea

Mar. 2023 – Feb. 2024

- Designed a deep learning pipeline for SEM image restoration and structure prediction
- Co-authored 1 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
- Co-authored 1 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] **Junho Park***, Yeieun Hwang*, Suk-Ju Kang†. TransHOI: Implicit 3D-Aware Cross-View Translation for Hand-Object Interaction Generation. (*: Equal Contribution, †: Corresponding Author.)
12. [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