

# Junho Park

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## RESEARCH INTEREST

My research focuses on enabling robots to perceive, reason, and act in human-centered environments. In particular, I study egocentric vision and hand-object interactions in 3D space to build perception systems that can bridge human understanding and robotic manipulation. By developing generative and learning-based models, I aim to provide robots with the ability to anticipate human actions and collaborate seamlessly in daily environments.

## 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

**VGG, University of Oxford, United Kingdom & KAIST, South Korea | Collaboration** Oct. 2024 – Present

- Collaborated with *Ph. D. Taein Kwon* to develop a novel framework leveraging rich exocentric observations to translate views
- Co-authored 2 papers – 1 NeurIPS 2025 (under review), 1 ICCV 2025 Workshop

**AI Lab, LG Electronics, South Korea | AI Researcher** Mar. 2024 – Present

- Led by *Ph. D. Jaechul Kim*, developing **Vision Foundation Model (VFM)** which can simultaneously do **Object Detection, Panoptic Segmentation, Depth Estimation, Pose Estimation, Face Recognition, and Person Re-Identification** with world-best performance for **On-Device** – introduced in **CES 2025**.
- Constructing diffusion model-based **Large-Scale Generative Datasets** for robust recognition in in-the-wild scenes
- Co-authored 1 paper – 1 AAAI 2026 (under review)

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

- Collaborated with *Prof. Kyeongbo Kong* to develop generative models (e.g. Diffusion Models and Large Language Models) for in-the-wild 3D hand and room reconstruction
- Co-authored 4 papers – 1 ECCV 2024 Oral, 1 ECCV 2024 Workshop, 1 ICCV 2023 Workshop, 1 IEEE TMM

**Samsung Electronics, South Korea | Collaboration** Mar. 2023 – Feb. 2024

- Collaborated with *Computational Science & Engineering Team* to develop a full pipeline that removes noisy variant and regresses structural lengths from SEM images
- Co-authored 1 paper – 1 IEEE TIM

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

- Collaborated with *Data Fusion Platform Research Center* to develop a calibration-free algorithm suitable for public spaces, enabling use by general users
- Co-authored 1 paper – 1 IEEE Access

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

- Advised by *Prof. Suk-Ju Kang*, working on **Diffusion Models, Large Language Models, Egocentric Vision, Hand-Object Interaction, Pose/Gaze Estimation, Image Restoration, and Machine Learning**
- Co-authored 9 papers – 1 WACV 2026 (under review), 1 ICCV 2025 Workshop, 1 ECCV 2024 Oral, 2 ECCV 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*, awarded 1st place in AI Grand Challenge [\[Press\]](#)

## PUBLICATIONS

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1. [Under Review] **Junho Park**, Andrew Sangwoo Ye, Taein Kwon†. EgoWorld: Translating Exocentric View to Egocentric View using Rich Exocentric Observations. [\[Project Page\]](#) [\[Paper\]](#)
2. [Under Review] **Junho Park\***, Yeieun Hwang\*, Suk-Ju Kang†. Describe Your Camera: Towards Implicit 3D-Aware Cross-View Translation for Hand-Object Interaction.
3. [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.
4. [ICCVW 2025] Minsuh Song\*, **Junho Park\***, Suk-Ju Kang†. Replace-in-Ego: Text-Guided Object Replacement in Egocentric Hand-Object Interaction.
5. [ICCVW 2025] **Junho Park**, Andrew Sangwoo Ye, Taein Kwon†. Generating Egocentric View from Exocentric View via Multimodal Observations.
6. [ECCV 2024] **Junho Park\***, Kyeongbo Kong\*, Suk-Ju Kang†. AttentionHand: Text-driven Controllable Hand Image Generation for 3D Hand Reconstruction in the Wild. **(Oral Presentation, Acceptance Rate: 2.3%)** [\[Project Page\]](#) [\[Paper\]](#)
7. [ECCVW 2024] Jihyun Kim\*, **Junho Park\***, Kyeongbo Kong\*, Suk-Ju Kang†. Interactive 3D Room Generation for Virtual Reality via Compositional Programming. **(Oral Presentation)** [\[Paper\]](#)
8. [ECCVW 2024] **Junho Park\***, Yeieun Hwang\*, Suk-Ju Kang†. Diffusion-based Interacting Hand Pose Transfer. [\[Paper\]](#)
9. [ICCVW 2023] **Junho Park\***, Kyeongbo Kong\*, Suk-Ju Kang†. A Novel Framework for Generating In-the-Wild 3D Hand Datasets. [\[Paper\]](#)
10. [IEEE TMM] Jihyun Kim\*, **Junho Park\***, Kyeongbo Kong\*, Suk-Ju Kang†. Programmable-Room: Interactive Textured 3D Room Meshes Generation Empowered by Large Language Models. [\[Project Page\]](#) [\[Paper\]](#)
11. [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. [\[Paper\]](#)
12. [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. [\[Paper\]](#)

## ACADEMIC SERVICES

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**Conference Reviewer**

ICCV (2025–), WACV (2026–)

**Journal Reviewer**

IEEE TII (2024–), TCSVT (2025–)

## SKILLS

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**Languages**

Strong reading, writing and speaking competencies for English and Korean

**ML Frameworks**

PyTorch, Huggingface, PyTorch Lightning, Tensorflow

**Data Analytics**

Numpy, Matplotlib, SciPy, Pandas, Seaborn

**SW Engineering Tools**

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