Junho Park

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WORK EXPERIENCE

Vision Intelligence Lab./LG Electronics | *AI Researcher*   Mar. 2024 – Present

- With project leader, <u>Ph. D. Jaechul Kim</u>, our team developed **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 the advanced driver assistance system (ADAS), we designed **a lightweight VFM for On-device**, and it is introduced in **CES 2025**.
- In addition, our team is now constructing diffusion model-based **Large-Scale Generative Datasets** for robust recognition in in-the-wild scenes.

EDUCATION

Sogang University   Feb. 2024
M.S., Electronic Engineering – Advisor: <u>Prof. Suk-Ju Kang</u>

Sogang University   Feb. 2022
B.S., Mathematics and Electronic Engineering (Double Major)

PUBLICATIONS

Selected Papers

[**Preprint**] **Junho Park**, Andrew Sangwoo Ye, Taein Kwon†. EgoWorld: Translating Exocentric View to Egocentric View using Rich Exocentric Observations.

[**Under Review**] **Junho Park***, Yeieun Hwang*, Suk-Ju Kang†. Describe Your Camera: Towards Implicit 3D-Aware Cross-View Translation for Hand-Object Interaction.

[**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.

[**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)**

[**ECCVW 2024**] Jihyun Kim*, **Junho Park***, Kyeongbo Kong*, Suk-Ju Kang†. Interactive 3D Room Generation for Virtual Reality via Compositional Programming. **(Oral Presentation)**

[**ECCVW 2024**] **Junho Park***, Yeieun Hwang*, Suk-Ju Kang†. Diffusion-based Interacting Hand Pose Transfer.

[**ICCVW 2023**] **Junho Park***, Kyeongbo Kong*, Suk-Ju Kang†. A Novel Framework for Generating In-the-Wild 3D Hand Datasets.

[**IEEE TMM**] Jihyun Kim*, **Junho Park***, Kyeongbo Kong*, Suk-Ju Kang†. Programmable-Room: Interactive Textured 3D Room Meshes Generation Empowered by Large Language Models.

[**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.

[**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.

RESEARCH EXPERIENCE

University of Oxford, VGG (Collaboration)   Oct. 2024 – Present
Collaborated with <u>Ph. D. Taein Kwon</u>

Pusan National University, CVSP Lab (Collaboration)   Jul. 2023 – Feb. 2025
Collaborated with <u>Prof. Kyeongbo Kong</u>, co-authored four papers

Samsung Electronics (Collaboration)   Mar. 2023 – Feb. 2024
Collaborated with Computational Science & Engineering Team, co-authored one paper

Korea Electronics Technology Institute (KETI) (Collaboration)   Mar. 2022 – Feb. 2023
Collaborated with Data Fusion Platform Research Center, co-authored one paper

Sogang University, VDS Lab (Master Student)   Jan. 2022 – Feb. 2024
Advised by <u>Prof. Suk-Ju Kang</u>

Sogang University, ISDS Lab (Undergraduate Student)   Jul. 2021 – Dec. 2021
Advised by <u>Prof. Myoung-Wan Koo</u>, 1st place in AI Grand Challenge (link)