

Jihwan Hong

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Education

Seoul National University <i>M.S. in Electrical and Computer Engineering</i>	2025 – Present
Korea University <i>B.S. in Computer Science and Engineering</i>	2019 – 2025

Research Experience

Research Assistant, AIDAS Lab, Seoul National University, Korea <i>Advisor: Prof. Jaeyoung Do</i>	Aug. 2025 – Present
Research Intern, AIDAS Lab, Seoul National University, Korea <i>Advisor: Prof. Jaeyoung Do</i>	Jan. 2025 – Aug. 2025
Research Intern, MLV Lab, Korea University <i>Advisor: Prof. Hyunwoo J. Kim</i>	Jun 2023 – Dec 2024
Research Intern, AI Lab, Korea University <i>Advisor: Prof. Dongsuk Yook</i>	Oct 2020 – Jan 2021

Publications

DM3SR: Benchmarking Deep Multi-View 3D Spatial Reasoning <i>Under review</i> Jusang Oh, Jihwan Hong , Jaeyoung Do [†]	2026
Predicting Nothing Beats SAM 3: Revisiting Evaluation in Video Object Segmentation <i>Under review</i> Jihwan Hong , Woohyeon Park, Jaeik Kim, Jaeyoung Do [†]	2026
Dynin-Omni: Omnimodal Unified Large Diffusion Language Model <i>Under review</i> Jaeik Kim, Woojin Kim, Jihwan Hong , Yejoon Lee, Sieun Hyeon, Mintaek Lim, Yunseok Han, Dogeun Kim, Hoeun Lee, Hyunggeun Kim, Jaeyoung Do [†] Demo · Code · Model · arXiv	2026
VIRST: Video-Instructed Reasoning Assistant for SpatioTemporal Segmentation <i>IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)</i> Jihwan Hong , Jaeyoung Do [†] Project · Paper · arXiv · Code	2026

Report of the 5th PVUW Challenge: Towards More Diverse Modalities in Pixel-Level Understanding 2026
IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)
Chang Liu *et al.*
arXiv

SoccerNet 2024 Challenges Results 2024
arXiv preprint
Anthony Cioppa *et al.*
arXiv

Awards & Honors

3rd Place, 5th PVUW Challenge MeViS-Audio Track 2026
CVPR 2026 Pixel-level Video Understanding in-the-Wild (PVUW) Workshop
3rd Place of MeViS-Audio Track of the 5th PVUW: VIRST-Audio
Jihwan Hong, Jaeyoung Do[†]
arXiv

2nd Place, CVPRW 2024 SoccerNet Challenge: Multi-View Foul Recognition 2024
CVPR 2024 CVsports Workshop
VF-VARS: Leveraging Video Foundation Models for Video Assistant Referee Systems
Jihwan Hong*, Youngseo Kim*, Junseok Lee, Jimin Lee, Sehyung Kim, Hyunwoo J. Kim[†]
Technical Report

1st Place, The 14th KSME Student Creative Design Competition 2023
The Korean Society of Mechanical Engineers; Minister of Science and ICT Award, Government of South Korea
Development of an AI-Based Automatic Seat Belt Adjustment Device
Code

Academic Service

Reviewer 2026
IEEE Transactions on Multimedia (Q1)

Selected Projects

Anatomy- and Action-Conditioned Colonoscopic World Model Jul. 2026 – Present
SNU Boramae Medical Center & NVIDIA HK
Developing a colonoscopic I2V world model conditioned on an anatomical topology map and actions.

Technical Drawing Registration Automation Apr. 2025 – Jun. 2025
POSCO DX
Developed a vision-language-model-based workflow for autonomous technical drawing registration.