

Hyeokjun Kweon (권혁준)

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Education

- 2020–2025 Ph.D., Mechanical Engineering, Korea Advance Institute of Science and Technology (KAIST, supervised by Kuk-Jin Yoon)
- 2018–2020 M.S., Mechanical Engineering, Korea Advance Institute of Science and Technology (KAIST, supervised by Doo Yong Lee)
- 2014–2018 B.S., Mechanical Engineering, Korea Advance Institute of Science and Technology (KAIST)

Research Publications

[ICCV 2025] Jihun Kim*, Hoyong Kwon*, **Hyeokjun Kweon***, Wooseong Jeong, and Kuk-Jin Yoon. DC-TTA: Divide-and-Conquer Framework for Test-Time Adaptation of Interactive Segmentation

[CVPR 2025, **Highlight**] Hyeokjun Kweon and Kuk-Jin Yoon. WISH: Weakly Supervised Instance Segmentation using Heterogeneous Labels (**Top 2.6% of submissions**)

[NeurIPS 2024] Hyun-Kurl Jang*, Jihun Kim*, **Hyeokjun Kweon***, and Kuk-Jin Yoon. TALoS: Enhancing Semantic Scene Completion via Test-time Adaptation on the Line of Sight

[ECCV 2024] Hoonhee Cho*, Sung-Hoon Yoon*, **Hyeokjun Kweon***, and Kuk-Jin Yoon. Finding Meaning in Points: Weakly Supervised Semantic Segmentation for Event Cameras

[CVPR 2024, **Oral**] **Hyeokjun Kweon** and Kuk-Jin Yoon. From SAM to CAMs: Exploring Segment Anything Model for Weakly Supervised Semantic Segmentation (**Top 0.8% of submissions**)

[CVPR 2024] **Hyeokjun Kweon***, Jihun Kim*, and Kuk-Jin Yoon. Weakly Supervised Point Cloud Semantic Segmentation via Artificial Oracle

[ICCV 2023] Jihun Kim, **Hyeokjun Kweon**, Yunseo Yang, and Kuk-Jin Yoon. Learning Point Cloud Completion without Complete Point Clouds: A Pose-aware Approach

[CVPR 2023] **Hyeokjun Kweon***, Sung-Hoon Yoon*, and Kuk-Jin Yoon. Weakly Supervised Semantic Segmentation via Adversarial Learning of Classifier and Reconstructor.

[AAAI 2023] **Hyeokjun Kweon***, Hyeonseong Kim*, Yoonsu Kang*, Youngho Yoon*, Wooseong Jeong, and Kuk-Jin Yoon. Pixel-wise Warping for Deep Image Stitching.

[NeurIPS 2022] **Hyeokjun Kweon** and Kuk-Jin Yoon. Joint Learning of 2D-3D Weakly Supervised Semantic Segmentation.

[ECCV 2022] Sung-Hoon Yoon*, **Hyeokjun Kweon***, Je-Gyeong Cho, Shin-Jeong Kim, and Kuk-Jin Yoon. Adversarial Erasing Framework via Triplet with Gated Pyramid Pooling Layer for Weakly Supervised Semantic Segmentation.

[ICCV 2021] **Hyeokjun Kweon***, Sung-Hoon Yoon*, Hyeonseong Kim, Daehee Park, and Kuk-Jin Yoon. Unlocking the Potential of Ordinary Classifier: Class-specific Adversarial Erasing Framework for Weakly Supervised Semantic Segmentation.

Projects

- 2020–2025 Unmanned Swarm CPS Research Laboratory Program of Defense Acquisition Program (**with ADD**)
- 2021–2023 Object Detection AI Research for Intelligent Xray Luggage Scanning System (**with Korea Customs Service**)

Selected Honors and Awards

Reviewer of Top-tier Conferences: CVPR, ICCV, ECCV, NeurIPS, ICLR, ICML, AAAI

Reviewer of Top-tier Journals: TPAMI, IJCV, CVIU, RA-L

- 2024 Qualcomm Innovation Fellowship 2024 Korea Winner (Top 15 papers)
- 2023 Bronze prize in Samsung HumanTech Paper Awards 2023
- 2023 Bronze prize in Best Paper Awards during IPIU 2023, 35th Workshop on Image Processing and Image Understanding
- 2022 Gold prize in Best Paper Awards during IPIU 2022, 34th Workshop on Image Processing and Image Understanding
- 2021 Winning CVPRW 2021 DSEC challenge (event-only track)