Donghyeon Kwon

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Research Objective

My research advances the frontiers of computer vision through effective approaches to data-efficient learning. I have developed novel methodologies that significantly reduce annotation requirements while achieving state-of-the-art performance across diverse domains—from 3D object detection and semantic segmentation to video understanding and cross-modal knowledge transfer. Specifically, my research experience includes:

- Semi-supervised learning for dense visual understanding.
- Cross-modal knowledge distillation for 3D object detection.
- Self-supervised learning using a vast amount of web videos.

Education

POSTECH Feb. 2021 – Feb. 2026

Integrated M.S. and Ph.D. in Computer Science and Engineering;

- Supervised by Prof. Suha Kwak in the Computer Vision Lab.
- Research interest: Computer vision, data-efficient learning, self-supervised learning, knowledge distillation

POSTECH Feb. 2017 – Feb. 2021

B.S. in Computer Science and Engineering

Donghyeon kwon, and Suha Kwak

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)

Publications

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[1] MemDistill: Distilling LiDAR Knowledge into Memory for Camera-Only 3D Object Detection	Oct. 2025
Donghyeon Kwon, Youngseok Yoon, Hyeongseok Son and Suha Kwak IEEE/CVF International Conference on Computer Vision (ICCV)	
[2] Decoupled Finetuning for Domain Generalizable Semantic Segmentation	Apr. 2025
Jaehyun Pahk, Donghyeon Kwon , Seong Joon Oh and Suha Kwak The Thirteenth International Conference on Learning Representations (ICLR)	
[3] Boosting Semi-supervised Video Action Detection with Temporal Context	Feb. 2025
Donghyeon Kwon , Inho Kim and Suha Kwak IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), Oral Presentation	
[4] Self-supervised Learning of Semantic Correspondence Using Web Videos	Jan. 2024
Donghyeon Kwon, Minsu Cho and Suha Kwak	
IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)	
[5] Leveraging Proxy of Training Data for Test-Time Adaptation	July. 2023
Juwon Kang, Nayeong Kim, Donghyeon kwon , Jungseul Ok and Suha Kwak International Conference on Machine Learning (ICML)	
[6] Semi-supervised Semantic Segmentation with Error Localization Network	June 2022

Experience

Research Intern, Samsung Advanced Institute of Technology

July 2023 – Aug. 2023

- Mentor: Dr. Hyeongseok Son
- Development of a LiDAR-to-Camera Knowledge Distillation Method for 3D Object Detection

Research Assistant, Korea Institute of Science and Technology

June 2019 – Aug. 2019

- Advisor: Dr. Suhyun Kim
- Development of AI-powered typo correction for virtual keyboards

Professional Services

Reviewer, IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR): 2023-2025

Reviewer, IEEE/CVF International Conference on Computer Vision (ICCV): 2023, 2025

Reviewer, European Conference on Computer Vision (ECCV): 2024

Reviewer, Conference on Neural Information Processing Systems (NeurIPS): 2023

Reviewer, International Conference on Learning Representations (ICLR): 2024-2025

Reviewer, IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI): 2025

Awards & Achievements

Outstanding Reviewer, ICCV 2025, 2025 BK21 Best Paper Award, POSTECH CSE, 2023

• Semi-supervised Semantic Segmentation with Error Localization Network (CVPR 2022)

Jigok Scholarship, POSTECH, 2017-2020