

# Donghyeon Kwon

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## Research Objective

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My work addresses the diverse challenges of modern computer vision tasks by leveraging data-efficient learning. I have focused on, and will continue to explore, this approach to foster efficient and effective AI learning while minimizing labeling costs. Specifically, my research experience includes:

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

## Education

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**POSTECH**

Feb. 2021 – Present

*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*

## Publications

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

## Experience

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**Research Intern, Samsung Advanced Institute of Technology**

July 2023 – Aug. 2023

- Mentor: Dr. **Hyeongseok Son**
- Conducted research on data-efficient 3D object detection for autonomous driving

**Research Assistant, Korea Institute of Science and Technology**

June 2019 – Aug. 2019

- Advisor: Dr. **Suhyun Kim**
- Conducted research on AI-powered typo correction for virtual keyboards

## Professional Services

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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

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**BK21 Best Paper Award**, POSTECH CSE, 2023

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

**Jigok Scholarship**, POSTECH, 2017-2020