

# Donghyeon Kwon

PH.D. CANDIDATE @ POSTECH CVLAB

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## Research Interests

### Computer Vision and Deep Learning

DATA-EFFICIENT LEARNING

- Semi-supervised learning on semantic segmentation and video action detection (2021-2024)
- Self-supervised learning on semantic correspondence (2022-2023)
- Multi-modal Knowledge distillation for autonomous driving scene (2023-Present)

## Education

### POSTECH (Pohang University of Science and Technology)

INTEGRATED M.S. · PH.D. COURSE IN COMPUTER SCIENCE AND ENGINEERING

- Advisor: Prof. Suha Kwak

Pohang, S.Korea

Feb. 2021 - Present

### POSTECH (Pohang University of Science and Technology)

B.S. IN COMPUTER SCIENCE AND ENGINEERING

- Advisor: Prof. Hwanjo Yu

Pohang, S.Korea

Feb. 2017 - Feb. 2021

## Publication

- **Distilling LiDAR Knowledge into Memory for Camera-Only 3D Object Detection**

DONGHYEON KWON, YOUNGSEOK YOON AND SUHA KWAK

Under Review

Nov. 2024

- **Boosting Semi-supervised Video Action Detection with Temporal Context**

DONGHYEON KWON, INHO KIM AND SUHA KWAK

IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)

Feb. 2025

- **Self-supervised Learning of Semantic Correspondence Using Web Videos**

DONGHYEON KWON, MINSU CHO AND SUHA KWAK

IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)

Jan. 2024

- **Leveraging Proxy of Training Data for Test-Time Adaptation**

JUWON KANG, NAYEONG KIM, DONGHYEON KWON, JUNGSEUL OK AND SUHA KWAK

International Conference on Machine Learning (ICML)

July. 2023

- **Semi-supervised Semantic Segmentation with Error Localization Network**

DONGHYEON KWON AND SUHA KWAK

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

Jun. 2022

## Awards

2022 **BK21 Best Paper Award from POSTECH CSE**, “Semi-supervised Semantic Segmentation with Error Localization Network”

2020 **2nd Prize, Research Project Award from POSTECH CSE**, “Crowd Counting with transformer”

## Reviewing Services

- Computer Vision and Pattern Recognition Conference (CVPR), 2023 - 2025
- International Conference on Computer Vision (ICCV), 2023
- European Conference on Computer Vision (ECCV), 2024
- Conference on Neural Information Processing Systems (NeurIPS), 2023
- International Conference on Learning Representations (ICLR), 2024 - 2025
- AAAI Conference on Artificial Intelligence (AAAI), 2024
- Winter Conference on Applications of Computer Vision (WACV), 2025
- Asian Conference on Computer Vision (ACCV), 2022, 2024

## Teaching Experience

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### Teaching Assistant

POSTECH

- CSED415, Computer security (2023, Spring)
- CSED211, Introduction to computer software and system (2022, Fall)
- CSED415, Computer security (2022, Spring)

## Work Experience

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### Samsung Advanced Institute of Technology (SAIT)

RESEARCH INTERN

- Mentor: Dr. Hyeongseok Son

*Suwon, S.Korea*

*July, 2023 - Aug. 2023*

### Korea Institute of Science and Technology (KIST)

RESEARCH ASSISTANT

- Advisor: Dr. Suhyun Kim

*Seoul, S.Korea*

*Jun. 2019 - Aug. 2019*

### Postech Laboratory for Unix Security

STUDENT CLUB MEMBER

- Advisor: Prof. Jong Kim

*Pohang, S.Korea*

*Jun. 2017 - Jun. 2019*

## Projects

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### Samsung Electronics

- Webly Supervised Learning for Visual Recognition

*Mar. 2021 - Present*