

# Sehyun Hwang

PH.D. STUDENT @ COMPUTER VISION LAB.

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## Research Interests

### Computer Vision and Machine Learning

- Active Learning
- Domain Adaptation
- Weakly Supervised Learning
- Debiasing

## Education

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

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

- Advisor: Prof. Suha kwak
- Cumulative GPA: 4.0 / 4.3

Pohang, South Korea

Sep. 2018 - Present

### DGIST (Daegu Gyeongbuk Institute of Science and Technology)

B.S. IN SCHOOL OF UNDERGRADUATE STUDIES

- Cumulative GPA: 3.9 / 4.3

Daegu, South Korea

Mar. 2014 - Sep. 2018

## Publication

### • Adaptive Superpixel for Active Learning in Semantic Segmentation

2023

HOYOUNG KIM, MINHYEON OH, SEHYUN HWANG, JUNGSEUL OK, AND SUHA KWAK  
*International Conference on Computer Vision (ICCV)*

### • Learning Debaised Classifier with Biased Committee

2022

NAYEONG KIM, SEHYUN HWANG, SUNGSOO AHN, JAESIK PARK, AND SUHA KWAK  
*Conference on Neural Information Processing Systems (NeurIPS)*

### • Combating Label Distribution Shift for Active Domain Adaptation

2022

SEHYUN HWANG, SOHYUN LEE, SUNGYEON KIM, JUNGSEUL OK, AND SUHA KWAK  
*European Conference on Computer Vision (ECCV)*

### • Learning to Detect Semantic Boundaries with Image-Level Class Labels

2022

NAMYUP KIM\*, SEHYUN HWANG\*, AND SUHA KWAK (\*EQUAL CONTRIBUTION)  
*International Journal of Computer Vision (IJCV)*

## Honors & Awards

2023 **POSTECHIAN Fellowship Award**, POSTECHIAN

Pohang, S. Korea

2022 **Qualcomm Innovation Fellowship South Korea**, Qualcomm

Seoul, S. Korea

2022 **Gold Prize at IPIU Best Paper Award**, IPIU

Jeju, S. Korea

2020 **The Honorable Mention, Samsung Humantech Thesis Prize**, Samsung Electronics

Suwon, S. Korea

2016 **Academic Excellence Scholarship**, DGIST

Daegu, S. Korea

## Reviewer

- Conference on Neural Information Processing Systems (**NeurIPS**): 2022-2023
- International Conference on Computer Vision (**ICCV**): 2023
- IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**): 2023
- Asian Conference on Computer Vision (**ACCV**): 2022

- IEEE/CVF Winter Conference on Applications of Computer Vision (**WACV**): 2022

## Experience

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### Computer Vision Lab, POSTECH

RESEARCH ASSISTANT

- Participate in research projects about active domain adaptation.

*Pohang, South Korea*

*Mar. 2018 - Present*

### Optical Fiber Sensor Group, Nanyang Technological University (NTU)

RESEARCH INTERNSHIP

- Advisor: Prof. Chi Chiu Chan.
- A Study on Glucose and Gas Detection Sensor using Optical Fiber.

*Singapore*

*June. 2016 - August. 2016*

### Computational Material Design Lab, DGIST

RESEARCH INTERNSHIP

- Advisor: Prof. Joongoo Kang.
- A Theoretical modeling on Carbon nanotube, Graphene based on quantum mechanics.

*Daegu, South Korea*

*Jun. 2015 - July. 2015*

## Teaching Experience

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### • Teaching Assistant in External Courses

SK Hynix, Machine Learning Training Course (Nov. 2019)

### • Teaching Assistant in POSTECH

AIGS538, Deep Learning (Spring 2021)

AIGS539, Computer Vision (Fall 2021)