

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

• Active Learning for Semantic Segmentation with Multi-class Label Query

2023

SEHYUN HWANG, SOHYUN LEE, HOYOUNG KIM, MINHYEON OH, JUNGSEUL OK, AND SUHA KWAK
Neural Information Processing Systems (NeurIPS)

• 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

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

• 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)