Sehyun **Hwang**

Ph.D. Student @ Computer Vision Lab.

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Education

POSTECH (Pohang University of Science and Technology)   *Pohang, South Korea*
Integrated M.S · PH.D Student in Computer Science and Engineering   *Sep. 2018 - Present*
- Advisor: Prof. Suha kwak
- Cumulative GPA: 4.0 / 4.3

DGIST (Daegu Gyeongbuk Institute of Science and Technology)   *Daegu, South Korea*
B.S. in School of Undergraduate Studies   *Mar. 2014 - Sep. 2018*
- Cumulative GPA: 3.9 / 4.3

Publication

- **Extreme Point Supervised Instance Segmentation**   *2024*
  Hyeonjun Lee, Sehyun Hwang, and Suha Kwak
  IEEE Conference on Computer Vision and Pattern Recognition (CVPR)

- **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 Debiased 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)

Fellowships and 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 Service

- International Conference on Machine Learning (**ICML**): 2024
- IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**): 2023-2024
- Conference on Neural Information Processing Systems (**NeurIPS**): 2022-2023

- International Conference on Computer Vision (**ICCV**): 2023
- Asian Conference on Computer Vision (**ACCV**): 2022
- IEEE/CVF Winter Conference on Applications of Computer Vision (**WACV**): 2022

Experience

Tübingen AI Center, University of Tübingen *Tübingen, Germany*
Visiting Researcher *Mar. 2024 - May. 2024*
- Inviter: Prof. Seong Joon Oh

Computer Vision Lab, POSTECH *Pohang, South Korea*
Research Assistant *Mar. 2018 - Present*
- Participate in research projects about active learning.

Optical Fiber Sensor Group, Nanyang Technological University (NTU) *Sigapore*
Research internship *June. 2016 - August. 2016*
- Advisor: Prof. Chi Chiu Chan.
- A Study on Glucose and Gas Detection Sensor using Optical Fiber.

Computational Material Design Lab, DGIST *Daegu, South Korea*
Research internship *Jun. 2015 - July. 2015*
- Advisor: Prof. Joongoo Kang.
- A Theoretical modeling on Carbon nanotube, Graphene based on quantum mechanics.

Teaching Experience

- **Teaching Assistant in External Courses**
  SK Hynix, Machine Learning Training Course (Nov. 2019)

- **Teaching Assistant in POSTECH**
  CSED261, Discrete Math. for Computer Science (Spring 2021)
  AIGS538, Deep Learning (Spring 2021)
  AIGS539, Computer Vision (Fall 2021)

References

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