

PH.D. STUDENT @ COMPUTER VISION LAB.

Computer Vision Laboratory, POSTECH, 77 Cheongam-ro, Pohang, Geongbuk, South Korea 37673

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Education

Pohang University of Science and Technology (POSTECH)

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

· Advisor: Prof. Suha Kwak

• Cumulative GPA: 3.8 / 4.3

Soongsil University

B.S. IN ELECTRONIC ENGINEERING

• Advisor: Prof. Dongsung Kim

• Cumulative GPA: 4.1 / 4.5

Seoul, South Korea

Pohang, South Korea

Mar 2018 - Present

Mar. 2011 - Feb. 2018

Experience _____

Microsoft Research Asia (MSRA), Remote

RESEARCH INTERN

• Researched on domain generalization for semantic segmentation and referring image segmentation.

• Mentor: Cuiling Lan

Beijing, China

Dec. 2020 - Jun. 2021

Computer Vision Lab, POSTECH

RESEARCH ASSISTANT

• Participate in research projects about weakly supervised semantic boundary detection and domain generalization.

Pohang, South Korea

Mar. 2018 - Present

Image Processing Lab, Soongsil University

RESEADOU INTEDA

• Developed software applications including automatic attendance, hidden camera detection and text contents/buttons rendering on a bird-eye view image

Seoul, South Korea

Mar. 2016 - Feb. 2018

Software Maestro (funded by Korea Ministry of Knowledge and Economy)

SOFTWARE ENGINEER TRAINEE

• Trainee completion: Built a system of detecting and reporting hidden cameras which is composed of app, detecting hardware and an announcement webpage.

Seoul, South Korea

Jul. 2017 - Dec. 2017

EF International Language Centres

LANGUAGE STUDY ABROAD

• Certificated of academic year abroad diploma.

Bristol. UK

Jan. 2015 - Nov. 2015

5th Corps Headquarters

MILITARY OBLIGATION

• Carried out the obligatory duty of national defense.

Pocheon, South Korea

Jan. 2013 - Oct. 2014

Publication

• Shatter and Gather: Learning Referring Image Segmentation with Text Supervision

Dongwon Kim*, <u>Namyup Kim</u>*, <u>Cuiling Lan</u>, and Suha Kwak (*Equal contribution) *IEEE/CVF International Conference on Computer Vision (ICCV)*

2023

• Improving Cross-Modal Retrieval with Set of Diverse Embeddings

Dongwon Kim, Namyup Kim, and Suha Kwak

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) (Highlight, 235/9155 = 2.5)

2023

WEDGE: Web-Image Assisted Domain Generalization for Semantic Segmentation Namyup Kim, Taeyoung Son, Jaehyun Pahk, Cuiling Lan, Wenjun Zeng, and Suha Kwak IEEE International Conference on Robotics and Automation (ICRA)	2023
ReSTR: Convolution-free Referring Image Segmentation Using Transformers Namyup Kim, Dongwon Kim, Cuiling Lan, Wenjun Zeng, and Suha Kwak IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)	2022
Style Neophile: Constantly Seeking Novel Styles for Domain Generalization Juwon Kang, Sohyun Lee, Namyup Kim, and Suha Kwak IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)	2022
• Learning to Detect Semantic Boundaries with Image-Level Class Labels Namyup Kim*, Sehyun Hwang*, and Suha Kwak (*EQUAL CONTRIBUTION) International Journal of Computer Vision (IJCV)	2022
Urie: Universal image enhancement for visual recognition in the wild TAEYOUNG SON, JUWON KANG, NAMYUP KIM, SUNGHYUN CHO, AND SUHA KWAK European Conference on Computer Vision (ECCV)	2020
Patent	
• Input and Output System of Text According to Position on Image and the Method Thereof Namyup Kim*, Dongwoo Kim, Jiyoung Yeon, Hongsun Yun Korean Patent, KR1018284400000	2018
Honors & Awards	
NAVER Ph.D. Fellowship Award, NAVER POSTECHIAN Fellowship Award, POSETCH Qualcomm Innovation Fellowship South Korea, Qualcomm The 2 nd and 3 rd Prize, NAVER × POSTECH AI DAY, NAVER The Honorable Mention, Samsung Humantech Thesis Prize, Samsung Electronics The Best Prize, The 14 th Embedded Software Contest, Ministry of trade industry and energy The Bronze Prize, Engineering Design Competition, Soongsil University	Seoul, S. Kored Seoul, S. Kored Seoul, S. Kored Pohang, S. Kored Suwon, S. Kored Seoul, S. Kored Seoul, S. Kored
2011, 2012, 2017 Academic Excellence Scholarship , Soongsil University Reviewer	Seoul, S. Kored
Reviewer	

- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR): 2023
- IEEE/CVF International Conference on Computer Vision (ICCV): 2023
- Conference on Neural Information Processing Systems (NeurIPS): 2023
- International Conference on Machine Learning (ICML): 2023
- IEEE/CVF Winter Conference on Applications of Computer Vision (WACV): 2024
- Asian Conference on Computer Vision (ACCV): 2022

Invited Talk ____

• Open Seminar: An Introduction of Referring Image Segmentation and its Recent Work KAKAO BRAIN

Pankyo, South Korea Jul. 2022

Teaching Experience _____

- Teaching Assistant in External Courses
 SK Hynix, Machine Learning Training Course (Nov. 2019)
- Teaching Assistant in POSTECH
 CSED290, Introduction to Computer Science & Engineering (Spring 2018)
 CSED261, Discrete Mathematics for Computer Science (Spring 2022)