

Ph.D. Student @ Computer Vision Lab.

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

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Research Interests

Computer Vision; Segmentation, Multimodal Learning, and Data-Efficient Learning

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

EF International Language Centres

LANGUAGE STUDY ABROAD

• Certificated of academic year abroad diploma.

Pohang, South Korea

Mar. 2018 - Present

Seoul, South Korea Mar. 2011 - Feb. 2018

Bristol, UK

Jan. 2015 - Nov. 2015

Experience _____

Tübingen Al Center, University of Tübingen

VISITING STUDENT RESEARCHER

• Host: Prof. Seong Joon Oh

Tübingen, Germany

Mar. 2024 - May. 2024

Microsoft Research Asia

RESEARCH INTERN

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

• Mentor: Dr. Cuiling Lan

Beijing, China Dec. 2020 - Jun. 2021

Computer Vision Lab, POSTECH

RESEARCH ASSISTANT

Pohang, South Korea

Mar. 2018 - Present

Participate in research projects about multimodal learning, segmentation, and data-efficient learning.

Image Processing Lab, Soongsil University

RESEARCH INTERN

Seoul, South Korea

Mar. 2016 - Feb. 2018

• Developed software applications, including an automatic attendance system and a feature for rendering text content and buttons on a bird's-eye view image.

Software Maestro (funded by Ministry of Science and ICT)

8TH SOFTWARE ENGINEER TRAINEE

• Built a system for detecting and reporting hidden cameras, composed of an app, detection hardware, and an announcement webpage.

Seoul, South Korea Jul. 2017 - Dec. 2017

5th Corps Headquarters

MILITARY OBLIGATION

Pocheon, South Korea

Jan. 2013 - Oct. 2014

• Carried out the obligatory duty of national defense.

Publication

• FREST: Feature Restoration for Semantic Segmentation under Multiple Adverse Conditions

Sohyun Lee, $\underline{\mathsf{Namyup}\;\mathsf{Kim}}$, Sungyeon Kim , and $\mathsf{Suha}\;\mathsf{Kwak}$

European Conference on Computer Vision (ECCV)

2024

Shatter and Gather: Learning Referring Image Segmentation with Text Supervision Parkey Vivia Many Referring Image Segmentation with Text Supervision Parkey Vivia Many Referring Image Segmentation with Text Supervision Parkey Vivia Many Referring Image Segmentation with Text Supervision Parkey Vivia Many Referring Image Segmentation with Text Supervision Parkey Vivia Many Referring Image Segmentation with Text Supervision Parkey Vivia Many Referring Image Segmentation with Text Supervision Parkey Vivia Many Referring Image Segmentation with Text Supervision Parkey Vivia Many Referring Image Segmentation with Text Supervision Parkey Vivia Many Referring Image Segmentation with Text Supervision Parkey Vivia Many Referring Image Segmentation with Text Supervision Parkey Vivia Many Referring Image Segmentation With Text Supervision Wit	2023
Dongwon Kim*, Namyup Kim*, Cuiling Lan, and Suha Kwak (*Equal contribution) IEEE/CVF International Conference on Computer Vision (ICCV)	
Improving Cross-Modal Retrieval with Set of Diverse Embeddings	2023
Dongwon Kim, Namyup Kim, and Suha Kwak	2023
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) (Highlight, 235/9155 = 2.5%)	
WEDGE: Web-Image Assisted Domain Generalization for Semantic Segmentation	2023
Namyup Kim, Taeyoung Son, Jaehyun Pahk, Cuiling Lan, Wenjun Zeng, and Suha Kwak	
IEEE International Conference on Robotics and Automation (ICRA)	
• ReSTR: Convolution-free Referring Image Segmentation Using Transformers	2022
Namyup Kim, Dongwon Kim, Cuiling Lan, Wenjun Zeng, and Suha Kwak	
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)	
Style Neophile: Constantly Seeking Novel Styles for Domain Generalization	2022
Juwon Kang, Sohyun Lee, <u>Namyup Kim</u> , 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)	2022
International Journal of Computer Vision (IJCV)	
Urie: Universal image enhancement for visual recognition in the wild	2020
Taeyoung Son, Juwon Kang, Namyup Kim, Sunghyun Cho, and Suha Kwak	2020
European Conference on Computer Vision (ECCV)	
Patent	
• Input and Output System of Text According to Position on Image and the Method Thereof	2018
Namyup Kim, Dongwoo Kim, Jiyoung Yeon, Hongsun Yun	2010
Korean Patent, 1018284400000	
Honors & Awards	
	Dobana C Karaa
2023 BK21 Outstanding Paper Awards , POSTECH 2022 NAVER Ph.D. Fellowship Award , NAVER	Pohang, S. Korea
2022 POSTECHIAN Fellowship Award , POSETCH	Seoul, S. Korea Seoul, S. Korea
2022 Qualcomm Innovation Fellowship South Korea , Qualcomm	Seoul, S. Korea
2022 The 2 nd and 3 rd Prize, NAVER × POSTECH AI DAY, NAVER	Pohang, S. Korea
2020 The Honorable Mention, Samsung Humantech Paper Award, Samsung Electronics	Suwon, S. Korea
2016 The Grand Prize, The 14 th Embedded Software Contest, Ministry of Trade Industry and Energ	
Academic Services	
• Conference Reviewer: CVPR (2023, 2024), ICCV (2023), ECCV (2024), NeurIPS (2023, 2024), ICML (2023, 2024),	1221
ICLR (2024), WACV (2024), ACCV (2022, 2024)	723),
• Journal Reviewer: TPAMI, IJCV	
Invited Talk	
Oral Presentation: Web-Image Assisted Domain Generalization for Semantic Segmentation Samsung Global Technology Symposium	Seoul, South Korea Apr. 2023
• 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	
- reading Addition in Externat 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)