

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 Seoul, South Korea

B.S. IN ELECTRONIC ENGINEERING Mar. 2011 - Feb. 2018

• Advisor: Prof. Dongsung Kim • Cumulative GPA: 4.1 / 4.5

EF International Language Centres

LANGUAGE STUDY ABROAD

• Certificated of academic year abroad diploma.

Experience _____

Tübingen AI Center, University of Tübingen

VISITING STUDENT RESEARCHER

• Host: Prof. Seong Joon Oh

Microsoft Research Asia

RESEARCH INTERN

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

• Mentor: Dr. Cuiling Lan

Computer Vision Lab, POSTECH Pohang, South Korea

RESEARCH ASSISTANT

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

Image Processing Lab, Soongsil University

RESEARCH INTERN

• 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.

5th Corps Headquarters

MILITARY OBLIGATION

• Carried out the obligatory duty of national defense.

Publication

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

SOHYUN LEE, NAMYUP KIM, SUNGYEON KIM, AND SUHA KWAK

European Conference on Computer Vision (ECCV)

Pohang, South Korea

Mar. 2018 - Present

Bristol, UK

Jan. 2015 - Nov. 2015

Tübingen, Germany

Mar. 2024 - May. 2024

Beijing, China

Dec. 2020 - Jun. 2021

Mar. 2018 - Present

Seoul. South Korea

Mar. 2016 - Feb. 2018

Seoul, South Korea

Jul. 2017 - Dec. 2017

Pocheon, South Korea

Jan. 2013 - Oct. 2014

2024

• Sh	atter and Gather: Learning Referring Image Segmentation with Text Supervision	2023
Do	ngwon Kim*, Namyup Kim*, Cuiling Lan, and Suha Kwak (*Equal contribution)	
IEE	E/CVF International Conference on Computer Vision (ICCV)	
• Im	proving Cross-Modal Retrieval with Set of Diverse Embeddings	2023
Do	ngwon Kim, <u>Namyup Kim</u> , and Suha Kwak	
IEE	E/CVF Conference on Computer Vision and Pattern Recognition (CVPR) (Highlight, 235/9155 = 2.5%)	
• WE	DGE: Web-Image Assisted Domain Generalization for Semantic Segmentation	2023
NA	myup Kim, Taeyoung Son, Jaehyun Pahk, Cuiling Lan, Wenjun Zeng, and Suha Kwak	
IEE	E International Conference on Robotics and Automation (ICRA)	
• Re	STR: Convolution-free Referring Image Segmentation Using Transformers	2022
NA	MYUP KIM, DONGWON KIM, CUILING LAN, WENJUN ZENG, AND SUHA KWAK	
IEE	E/CVF Conference on Computer Vision and Pattern Recognition (CVPR)	
• St	le Neophile: Constantly Seeking Novel Styles for Domain Generalization	2022
Ju	won Kang, Sohyun Lee, <u>Namyup Kim,</u> and Suha Kwak	
IEE	E/CVF Conference on Computer Vision and Pattern Recognition (CVPR)	
• Le	arning to Detect Semantic Boundaries with Image-Level Class Labels	2022
NA	myup Kim*, Sehyun Hwang*, and Suha Kwak (*equal contribution)	
Int	ernational Journal of Computer Vision (IJCV)	
• Ur	ie: Universal image enhancement for visual recognition in the wild	2020
TA	eyoung Son, Juwon Kang, <u>Namyup Kim,</u> Sunghyun Cho, and Suha Kwak	
Eu	opean Conference on Computer Vision (ECCV)	
Dat	ent	
		2010
	out and Output System of Text According to Position on Image and the Method Thereof	2018
	MYUP KIM, DONGWOO KIM, JIYOUNG YEON, HONGSUN YUN	
	rean Patent, 1018284400000	
Ho	nors & Awards	
20	BK21 Outstanding Paper Awards , POSTECH	Pohang, S. Korea
20	NAVER Ph.D. Fellowship Award , NAVER	Seoul, S. Korea
20	POSTECHIAN Fellowship Award, POSETCH	Seoul, S. Korea
20	Qualcomm Innovation Fellowship South Korea , Qualcomm	Seoul, S. Korea
20	The 2^{nd} and 3^{rd} Prize, NAVER $ imes$ POSTECH AI DAY , NAVER	Pohang, S. Korea
20	The Honorable Mention, Samsung Humantech Paper Award, Samsung Electronics	Suwon, S. Korea
20	Ab	
Λ ==	demic Services	
• Co	nference Reviewer: CVPR (2023, 2024), ICCV (2023), ECCV (2024), NeurIPS (2023, 2024), ICML (20)23),
• Jo	ICLR (2024), WACV (2024), ACCV (2022, 2024) urnal Reviewer: IJCV	
Inv	ited Talk	
• Or	al Presentation: Web-Image Assisted Domain Generalization for Semantic Segmentation	Seoul, South Korea
	MSUNG GLOBAL TECHNOLOGY SYMPOSIUM	Apr. 2023
• Or	en Seminar: An Introduction of Referring Image Segmentation and its Recent Work	Pankyo, South Korea
_	KAO BRAIN	Jul. 2022
	ching Experience	
	aching 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)