

### Ph.D. Student @ Computer Vision Lab.

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

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Pohang, South Korea

Mar. 2018 - Present

# Education

• Advisor: Prof. Suha Kwak

• Mentor: Dr. Cuiling Lan

Pohang University of Science and Technology (POSTECH)

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

Cumulative GPA: 3.8 / 4.3	
Soongsil University	Seoul, South Korea
B.S. IN ELECTRONIC ENGINEERING	Mar. 2011 - Feb. 2018
<ul> <li>Advisor: Prof. Dongsung Kim</li> <li>Cumulative GPA: 4.1 / 4.5</li> </ul>	
Publication	
Shatter and Gather: Learning Referring Image Segmentation with Text Supervision	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  Paysway Kur, Nanyun Kur, and Surra Kuray.	2023
Dongwon Kim, Namyup Kim, and Suha Kwak  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	2023
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)	
<ul> <li>Style Neophile: Constantly Seeking Novel Styles for Domain Generalization</li> </ul>	2022
Juwon Kang, Sohyun Lee, <u>Namyup Kim</u> , and Suha Kwak	
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)	0000
<ul> <li>Learning to Detect Semantic Boundaries with Image-Level Class Labels</li> <li>NAMYUP KIM*, SEHYUN HWANG*, AND SUHA KWAK (*EQUAL CONTRIBUTION)</li> </ul>	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	
European Conference on Computer Vision (ECCV)	
Experience	
Tübingen AI Center, University of Tübingen	Tübingen, Germany
Visiting Researcher	Mar. 2024 - Present
Host: Prof. Seong Joon Oh	
Microsoft Research Asia (MSRA), Remote	Beijing, China
RESEARCH INTERN	Dec. 2020 - Jun. 2021
Researched on domain generalization for semantic segmentation and referring image segmentation.	

MARCH 12, 2024 NAMYUP KIM · RÉSUMÉ

### **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

RESEARCH INTERN

 Developed software applications including automatic attendance, hidden camera detection and text contents/buttons rendering on a bird-eye view image Mar. 2016 - Feb. 2018

Seoul, South Korea

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

Jan. 2015 - Nov. 2015

### **EF International Language Centres**

LANGUAGE STUDY ABROAD

• Certificated of academic year abroad diploma.

Bristol, UK

# **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 Korean Patent. KR1018284400000

# Honors & Awards\_

2022	NAVER Ph.D. Fellowship Award , NAVER	Seoul, S. Korea
2022	POSTECHIAN Fellowship Award, POSETCH	Seoul, S. Korea
2022	Qualcomm Innovation Fellowship South Korea , Qualcomm	Seoul, S. Korea
2022	The $2^{\mathbf{nd}}$ and $3^{\mathbf{rd}}$ Prize, NAVER $ imes$ 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 <sup>th</sup> Embedded Software Contest , Ministry of Trade Industry and Energy	Seoul, S. Korea
2016	The Bronze Prize, Engineering Design Competition, Soongsil University	Seoul, S. Korea

# Reviewer\_

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

## 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)