

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

Beijing, China Dec. 2020 - Jun. 2021

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 **Publication** FREST: Feature Restoration for Semantic Segmentation under Multiple Adverse Conditions 2024 SOHYUN LEE, NAMYUP KIM, SUNGYEON KIM, AND SUHA KWAK European Conference on Computer Vision (ECCV) 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 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 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, 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) • 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 Al Center, University of Tübingen Tübingen, Germany VISITING RESEARCHER Mar. 2024 - Present

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

• Mentor: Dr. Cuiling Lan

RESEARCH INTERN

• Host: Prof. Seong Joon Oh

Microsoft Research Asia (MSRA), Remote

JULY 3, 2024 NAMYUP KIM · RÉSUMÉ 1

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

Seoul, South Korea Mar. 2016 - Feb. 2018

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

Seoul, South Korea

Jul. 2017 - Dec. 2017

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.

Bristol, UK

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LANGUAGE STUDY ABROAD

• Certificated of academic year abroad diploma.

EF International Language Centres

Jan. 2015 - Nov. 2015

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	$\textbf{The Grand Prize, The 14}^{th} \textbf{ Embedded Software Contest} \text{ , Ministry of Trade Industry and Energy}$	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, 2024
- 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)

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)