

Namyup Kim

PH.D. STUDENT @ COMPUTER VISION LAB.

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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

Pohang, South Korea

Mar. 2018 - Present

Soongsil University

B.S. IN ELECTRONIC ENGINEERING

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

Seoul, South Korea

Mar. 2011 - Feb. 2018

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** 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)
- **Learning to Detect Semantic Boundaries with Image-Level Class Labels** 2022
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 AI Center, University of Tübingen

VISITING RESEARCHER

- Host: Prof. Seong Joon Oh

Tübingen, Germany

Mar. 2024 - May. 2024

Microsoft Research Asia (MSRA), Remote

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

- 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

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

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, POSTECH

Seoul, S. Korea

2022 Qualcomm Innovation Fellowship South Korea, Qualcomm

Seoul, S. Korea

2022 The 2nd and 3rd 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 14th 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

Pankyo, South Korea

KAKAO BRAIN

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)