

Namyup Kim

PH.D. STUDENT @ COMPUTER VISION LAB.

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Research Interests

Computer Vision and Deep Learning

- Referring Image Segmentation
- Weakly Supervised Learning
- Domain Generalization and Adaptation

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

Experience

Microsoft Research Asia (MSRA), Remote

RESEARCH INTERN

- Researched on domain generalization for semantic segmentation and referring image segmentation.
- Mentor: 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

5th Corps Headquarters

MILITARY OBLIGATION

- Carried out the obligatory duty of national defense.

Pocheon, South Korea

Jan. 2013 - Oct. 2014

Publication

- **ReSTR: Convolution-free Referring Image Segmentation Using Transformers** 2022
NAMYUP KIM, DONGWON KIM, CUILING LAN, WENJUN ZENG, AND SUHA KWAK
In Proc. of 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
In Proc. of 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)
- **WEDGE: Web-Image Assisted Domain Generalization for Semantic Segmentation** 2021
NAMYUP KIM, TAEYOUNG SON, JAEHYUN PAHK, CUILING LAN, WENJUN ZENG, AND SUHA KWAK
arXiv preprint arXiv:2109.14196
- **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)

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	, POSETECH	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 Thesis Prize	, Samsung Electronics	Suwon, S. Korea
2016	The Best 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
2011, 2012, 2017	Academic Excellence Scholarship	, Soongsil University	Seoul, S. Korea

Reviewer

- IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**): 2023
- Asian Conference on Computer Vision (**ACCV**): 2022

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)