

Sunghwan Kim

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Education

University of California, San Diego <i>PhD Student, Electrical and Computer Engineering</i>	San Diego, CA, USA Sep 2024-Present
Korea Advanced Institute of Science and Technology (KAIST) <i>Bachelor of Science in Electrical Engineering and Mathematics (double major)</i>	Daejeon, South Korea Mar 2017-Feb 2021
Korea Science Academy of KAIST <i>Specialized high school for students talented in math and science</i>	Busan, South Korea Mar 2014-Feb 2017

Publications

1. **Textual Query-Driven Mask Transformer for Domain Generalized Segmentation** [paper]
Byeonghyun Pak, Byeongju Woo*, Sunghwan Kim*, Dae-hwan Kim, Hoseong Kim*
European Conference on Computer Vision (ECCV), 2024
2. **Texture Learning Domain Randomization for Domain Generalized Segmentation** [paper]
Sunghwan Kim, Dae-hwan Kim, Hoseong Kim
International Conference on Computer Vision (ICCV), 2023
3. **Data Gathering Trials for the Development of Military Imaging Systems** [paper]
Maria Niebla, Duncan L. Hickman, Eunjin Koh, Chanyong Lee, Hoseong Kim, Chaehyeon Lim, Sunghwan Kim
Proc. SPIE, Electro-Optical and Infrared Systems, 2023

Patent

1. **Method and System for Detecting Target Using Time Series Images**
Chaehyeon Lim, Sunghwan Kim, Hoseong Kim, Eunjin Koh
KR Patent, 2023 (1025640380000)

Employment

Agency for Defense Development (ADD) <i>First Lieutenant</i>	Daejeon, South Korea Jun 2021-May 2024
<ul style="list-style-type: none">• Selected as one of the 20 officers in Korea dedicated to science and technology research for national defense.• Developed various defense systems (e.g., UAVs) integrated with ML-based vision models.	
Bluepoint Partners <i>Research Assistant</i>	Seoul, South Korea Aug 2020-Mar 2021
<ul style="list-style-type: none">• Conducted market analysis on ongoing investments on robotics and researched overall technological trends.	
Neosapience <i>Machine Learning Engineer</i>	Seoul, South Korea Dec 2017-Feb 2018
<ul style="list-style-type: none">• Constructed an audio and text pair dataset for training Korean text-to-speech models.	

Honor

Korea Army Startup Challenge Gold Prize	Oct 2021
Korea Student Aid Foundation (KOSAF) Scholarship	Mar 2020
Korea National Scholarship of Excellence in Science and Technology	Mar 2019-Feb 2021
- Total \$ 20,000 (Full-Ride)	
National Scholarship for Undergraduate Study	Mar 2017-Feb 2019
- Total \$ 13,500 (Full-Tuition)	

Skills

Programming Languages: Python, C/C++, JavaScript, MATLAB

Frameworks & Tools: Pytorch, Tensorflow, NumPy, OpenCV, Docker, Git