

# Sunghwan Kim

Website: [sunghwan.me](http://sunghwan.me) Email: [ssshwan.korea@gmail.com](mailto:ssshwan.korea@gmail.com) / [suk063@ucsd.edu](mailto:suk063@ucsd.edu) Mobile: +82-10-4305-1311

## Education

<b>University of California, San Diego</b> <i>PhD Student, Electrical and Computer Engineering</i>	San Diego, CA, USA Sep 2024-Present
<b>Korea Advanced Institute of Science and Technology (KAIST)</b> <i>BS in Electrical Engineering and Mathematics (double major)</i>	Daejeon, South Korea Mar 2017-Feb 2021
<b>Korea Science Academy of KAIST</b> <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

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

## 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)	