

# Jaeha Kim

## Contact Information

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Affiliation: Department of ECE, ASRI, Seoul National University (SNU), Seoul, Korea  
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Github: <https://github.com/JaehaKim97>  
Homepage: <https://JaehaKim97.github.io/>

## Education

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**Integrated Ph.D. program in Department of ECE** Sep. 2019 – Present  
Seoul National University (SNU), Seoul, Korea  
Advisor: Kyoung Mu Lee  
GPA 4.27 / 4.30

**B.S. in Department of EE** Mar. 2015 – Feb. 2019  
Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea  
GPA 4.10 / 4.30 (*Summa Cum Laude, Dean's List*)

## International Publications (Selected)

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- **Jaeha Kim**, Junghun Oh, and Kyoung Mu Lee, "Beyond Image Super-Resolution for Image Recognition with Task-Driven Perceptual Loss," In Proc. Computer Vision and Pattern Recognition (**CVPR**), 2024.
- Yeonguk Oh\*, Joonkyu Park\*, **Jaeha Kim\*** (equal contribution), Gyeongsik Moon, and Kyoung Mu Lee, "Recovering 3D Hand Mesh Sequence from a Single Blurry Image: A New Dataset and Temporal Unfolding," In Proc. Computer Vision and Pattern Recognition (**CVPR**), 2023.
- Sanghyun Son\*, **Jaeha Kim\*** (equal contribution), Wei-Sheng Lai, Ming-Hsuan Yang, and Kyoung Mu Lee, "Toward Real-World Super-Resolution via Adaptive Downsampling Models," IEEE Trans. Pattern Analysis and Machine Intelligence (**TPAMI**),

## Research Interests

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I am interested in low-level image restoration challenges utilizing deep learning approaches, including super-resolution, deblurring, and denoising. My specific focus is on the development of image restoration techniques at the application level. This involves: "real-world restoration," which aims to reconstruct high-resolution images from real-world inputs, and "task-aware restoration," which is designed to enhance the performance of subsequent high-level tasks. Additionally, I am also interested in generative models, such as Generative Adversarial Networks (GANs) and diffusion models, within the context of image processing.

## Research Projects

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**Image Restoration for Improving Barcode Detection Performance** Dec, 2021 – Nov. 2022  
Hanwha Techwin

**Efficient Vision Transformer for Image Super-Resolution** May, 2021 – May. 2022  
Naver

**Object Re-Identification and Tracking on Drone Images** Mar, 2019 – July. 2019  
Artificial Intelligence Grand Challenge

## Service

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### Conference Reviewer

CVPR, ECCV

2022 – Present

## Skills

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PyTorch, PyTorch-Lightning, Python, MATLAB, C++, L<sup>A</sup>T<sub>E</sub>X

## Teaching Assistant

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EE729.003: Advanced Issues in Computer Vision

Sep. 2021 – Dec. 2021

Seoul National University, Seoul, Korea

## Scholarships

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National Science & Technology Scholarship, Korea Student Aid Foundation

2015 – 2019

## Certifications

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Test of English Proficiency (**TEPS**): 458/600

Sep. 2020 – Expired

Level 1, Near-Native Level of English Proficiency

## Reference

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Advisor Kyoung Mu Lee

Professor

Seoul National University

kyoungmu(at)snu.ac.kr

<https://cv.snu.ac.kr/index.php/kmlee>