

# 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; Graduated with highest honors (*Summa Cum Laude*)

Nominated for outstanding academic performance (*Dean's List*)

## International Publications (Selected)

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- First author of [Beyond Image Super-Resolution for Image Recognition with Task-Driven Perceptual Loss \(CVPR 2024\)](#), *A new paradigm of super-resolution that is helpful for image recognition.*
- Co-first author of [Recovering 3D Hand Mesh Sequence from a Single Blurry Image: A New Dataset and Temporal Unfolding \(CVPR 2023\)](#), *A new practical problem, 3D hand pose estimation under a blur.*
- Co-first author of [Toward Real-World Super-Resolution via Adaptive Downsampling Models \(TPAMI 2021\)](#), *Modeling image degradation with GANs for real-world super-resolution.*

## 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-driven restoration*, which is designed to enhance the performance of high-level vision 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, ICCV

2022 – Present

### Journal Reviewer

TPAMI

2022 – Present

## Skills

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Python, PyTorch, 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

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>