

# Younghyun Jo

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## CONTACT INFORMATION

*Website:* <https://yhjo09.github.io>  
*Google Scholar:* <https://scholar.google.com/citations?user=35DEuQEAAAAJ>  
*E-Mail:* [yh0.jo@samsung.com](mailto:yh0.jo@samsung.com)

## RESEARCH INTERESTS

*Computer Vision / Machine Learning / Computational Photography*  
Especially, Image/Video Restoration, Image Signal Processing, and Image Quality Assessment.

## EDUCATION

**Yonsei University**, Seoul, Korea

M.S./Ph.D. Integrated Course, Computer Science **Sep 2015 - Feb 2022**  
• Advisor: Seon Joo Kim (Computational Intelligence & Photography Lab)  
B.S., Computer Science and Engineering **Mar 2009 - Aug 2015**

## WORK EXPERIENCE

**SAIT (Samsung Advanced Institute of Technology)**, Suwon-si, Gyeonggi-do, Korea

Staff Engineer **Mar 2022 - Current**

**Mintech**, Seoul, Korea

Internship (Android Developer) **Jan 2013 - Feb 2013**

## PATENT

“Apparatus for Training Super-Resolution Network and Method of the Same”, **KR 102534657**, 2023.

“Apparatus for Super-Resolution Image Processing Using Look-Up Table and Method of the Same”, **KR 102498617**, 2023.

## PUBLICATIONS

Jinho Jeong, Jinwoo Kim, **Younghyun Jo**, Seon Joo Kim, “Accelerating Large Image Super-Resolution Networks with Pixel-Level Classification”, In Proc. of the European Conference on Computer Vision (**ECCV**) 2024.

Daekyu Kwon, Dongyoung Kim, Sehwan Ki, **Younghyun Jo**, Hyong-Euk Lee, Seon Joo Kim, “CLIP-Guided Attribute Aware Pretraining for Generalizable Image Quality Assessment”, **arXiv**, 2024.

**Younghyun Jo**, Seon Joo Kim, “Practical Single-Image Super-Resolution Using Look-Up Table”, In Proc. of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021.

**Younghyun Jo**, Seoung Wug Oh, Peter Vajda, Seon Joo Kim, “Tackling the Ill-Posedness of Super-Resolution through Adaptive Target Generation”, In Proc. of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021.

**Younghyun Jo**, Sejong Yang, Seon Joo Kim, “SRFlow-DA: Super-Resolution Using Normalizing Flow with Deep Convolutional Block”, In Proc. of the IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (**CVPR Workshops**) 2021.

Jaeyeon Kang, **Younghyun Jo**, Seoung Wug Oh, Peter Vajda, Seon Joo Kim, “Deep Space-Time Video Upsampling Networks”, In Proc. of the European Conference on Computer Vision (**ECCV**) 2020.

**Younghyun Jo**, Sejong Yang, Seon Joo Kim, “Investigating loss functions for extreme super-resolution”, In Proc. of the IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (**CVPR Workshops**) 2020.

**Younghyun Jo**, Jaeyeon Kang, Seoung Wug Oh, Seonghyeon Nam, Peter Vajda, Seon Joo Kim, “Learning Task-Specific Loss Networks for Image and Video Restoration”, **arXiv**, 2020.

**Younghyun Jo**, Seoung Wug Oh, Jaeyeon Kang, Seon Joo Kim, “Deep Video Super-Resolution Network Using Dynamic Upsampling Filters Without Explicit Motion Compensation”, In Proc. of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018.

ACADEMIC  
SERVICE

**Conference Reviewer**

CVPR (2021 - Current), ICCV (2021 - Current), ECCV (2022 - Current), NeurIPS (2023 - Current), ICLR (2024), ICML (2024), *etc.*

**Journal Reviewer**

Int J Comput Vision, IEEE T Image Process, Pattern Recogn, IEEE T Circ Syst Vid, ACM T Embed Comput S, *etc.*

AWARDS &  
SCHOLARSHIPS

**New Trends in Image Restoration and Enhancement (NTIRE)**, CVPR Workshops

Runner-Up Award, NTIRE 2021 Challenge on Learning the Super-Resolution Space. **2021**

2nd Place Award, NTIRE 2020 Challenge on Perceptual Extreme Super-Resolution. **2020**

**Samsung Electronics**, Gyeonggi-do, Korea

Bronze Prize, 24th Samsung Humantech Paper Award. **2018**

**Naver Corporation**, Gyeonggi-do, Korea

Naver Ph.D. Fellowship. **2018**

**Yonsei University**, Seoul, Korea

Best Paper Award, Graduate School Innovation Excellent Thesis Competition. **Jul 2022**

Graduate Scholarship for Excellent Students. **Sep 2015 - Aug 2017**

TEACHING  
EXPERIENCE

**Samsung Electronics**, Gyeonggi-do, Korea

Teaching Assistant (Introduction to Deep Learning) **Aug 2017**

**Yonsei University**, Seoul, Korea

Teaching Assistant (Computer Programming) **Spring 2016**