

Younghyun Jo

CONTACT INFORMATION

Website: <https://yhjo09.github.io>
Google Scholar: <https://scholar.google.com/citations?user=35DEuQEAAAAJ>
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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

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

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

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**