

Younghyun Jo

CONTACT INFORMATION	Computational Intelligence and Photography Lab Dept. of Computer Science Yonsei University Seoul, Korea	<i>E-mail:</i> yh.jo@yonsei.ac.kr <i>Tel:</i> +82 2-2123-7758 <i>Website:</i> https://yhjo09.github.io
RESEARCH INTERESTS	<i>Computer Vision / Computational Photography / Machine Learning</i> Image/Video super-resolution, video generation/synthesis, and deep learning for computer vision.	
EDUCATION	Yonsei University , Seoul, Korea M.S./Ph.D. Student, Computer Science Sep 2015 - Present <ul style="list-style-type: none">• Advisor: Seon Joo Kim• GPA: 4.17/4.3 Yonsei University , Seoul, Korea B.S., Computer Science and Engineering Mar 2009 - Aug 2015 <ul style="list-style-type: none">• GPA: 3.72/4.3	
WORK EXPERIENCE	Yonsei University , Seoul, Korea Sep 2015 - Current (<i>Research Assistant</i>) <ul style="list-style-type: none">• Deep learning based image/video super-resolution. Sep 2017 - Current• Deep learning based image super-resolution. Sep 2016 - Aug 2017• Light field image analysis for super-resolution and depth estimation. Sep 2015 - Aug 2016 Mintech , Seoul, Korea Jan 2013 - Feb 2013 (<i>Android Developer Intern</i>)	
TEACHING EXPERIENCE	Samsung Electronics , Gyeonggi, Korea Aug 2017 (<i>Teaching Assistant</i>) <ul style="list-style-type: none">• Deep Learning (20 hours of lecture and lab) Yonsei University , Seoul, Korea Spring 2016 (<i>Teaching Assistant</i>) <ul style="list-style-type: none">• Computer Programming (Undergrad).	
PUBLICATIONS	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 Conference on Computer Vision and Pattern Recognition (CVPR), 2018. 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 (CVPRW) 2020. 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.	
ACADEMIC SERVICE	Conference Reviewer <ul style="list-style-type: none">• Asian Conference on Computer Vision (ACCV) 2018	

Journal Reviewer

- Journal of Electronic Imaging (JEI)

HONORS & SCHOLARSHIPS

Naver Corporation, Gyeonggi, Korea

- Naver Ph.D. fellowship.

2018

Samsung Electronics, Gyeonggi, Korea

- Bronze prize, 24th Samsung Humantech Paper Award.

2018

Yonsei University, Seoul, Korea

- Graduate Scholarship for Excellent Students.

Sep 2015 - Aug 2017

PROJECTS

Institute of Information & Communications Technology Planning & Evaluation (IITP), Korea **2018 - Current**

- Image/Video super-resolution for predictive visual intelligence technology.

Samsung Research, Seoul, Korea

2017 - 2018

- Generative spatio-temporal video super-resolution. **2018**
- Deep learning based DTV video quality improvement. **2017**

Korea Aerospace Research Institute (KARI), Korea

2015 - 2016

- Study on 6U-class satellite-mounted optical cameras and image super-resolution techniques.

SK Telecom, Seoul, Korea

2015

- Development of next generation imaging solution (light field imaging).

SKILLS

Programming Languages

- Python, Matlab, C/C++, Java

Tools

- Computer vision libraries (OpenCV)
- Deep learning libraries (Pytorch, Tensorflow)