

# Namhyuk Ahn

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homepage: nmhkahn.github.io

## RESEARCH INTEREST

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- Image restoration and enhancement
- Image generation including synthesis, translation, or manipulation

## WORK EXPERIENCE

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- Researcher**, Webtoon AI, NAVER WEBTOON Corp. *Aug. 2021 - Present*  
· W AI Creation team
- Visiting Researcher**, Clova AI Research, NAVER Corp. *Sep. 2019 - Oct. 2020*  
· Mentor: Dr. Jaejun Yoo, Dr. Youngjung Uh and Yunjey Choi
- Intern**, Clova AI, NAVER Corp. *June 2018 - Aug. 2018*  
· Mentor: Kwangjin Oh

## EDUCATION

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- Ajou University** *Mar. 2016 - Aug. 2021*  
Ph.D. Student in the Department of Artificial Intelligence  
Advisor: Prof. Kyung-Ah Sohn  
Thesis: Toward an Efficient Deep Image Restoration Method
- Ajou University** *Mar. 2012 - Feb. 2016*  
Bachelor of Media in Digital Media

## PUBLICATIONS

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- [9] Jaejun Yoo\*, **Namhyuk Ahn\***, Kyung-Ah Sohn. Data Augmentation for Low-Level Vision: Cut-Blur and Mixture-of-Augmentation. Submitted to IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**) 2021.
- [8] Junekyu Park, Jeong-Hyeon Moon, **Namhyuk Ahn**, Kyung-Ah Sohn. What is Wrong with One-Class Anomaly Detection?. International Conference on Learning Representations Workshops (**ICLRW**), 2021.
- [7] Sijin Kim\*, **Namhyuk Ahn\***, Kyung-Ah Sohn. Restoring Spatially-Heterogeneous Distortions using Mixture of Experts Network. Asian Conference on Computer Vision (**ACCV**), 2020.
- [6] Jaejun Yoo\*, **Namhyuk Ahn\***, Kyung-Ah Sohn. Rethinking Data Augmentation for Image Super-resolution: A Comprehensive Analysis and a New Strategy. IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2020.
- [5] **Namhyuk Ahn\***, Jaejun Yoo\*, Kyung-Ah Sohn. SimUSR: A Simple but Strong Baseline for Unsupervised Image Super-resolution. IEEE Conference on Computer Vision and Pattern Recognition Workshops (**CVPRW**), 2020.
- [4] **Namhyuk Ahn**, Byungkoon Kang, Kyung-Ah Sohn. Efficient Deep Neural Network for Photo-realistic Image Super-Resolution. Submitted to Pattern Recognition (**PR**), 2019 (under minor revision)

- [3] **Namhyuk Ahn**, Byungkun Kang, Kyung-Ah Sohn. Fast, Accurate, and Lightweight Super-Resolution with Cascading Residual Network. European Conference on Computer Vision (**ECCV**), 2018.
- [2] **Namhyuk Ahn**, Byungkun Kang, Kyung-Ah Sohn. Image Super-resolution via Progressive Cascading Residual Network. IEEE Conference on Computer Vision and Pattern Recognition Workshops (**CVPRW**), 2018.
- [1] **Namhyuk Ahn**, Byungkun Kang, Kyung-Ah Sohn. Image Distortion Detection using Convolutional Neural Network. Asian Conference on Pattern Recognition (**ACPR**), 2017.
- (\* indicates equal contribution)

## AWARDS

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- Honorable Mention Award**, NTIRE 2018 Challenge *June 2018*  
· Single image super-resolution challenge (track 1) on NTIRE workshop in CVPR 2018.

## TEACHING EXPERIENCE

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- Lecture Instructor**, Fastcampus *Aug. 2017*  
· Lecture material: [https://github.com/nmhkahn/deep\\_learning\\_tutorial](https://github.com/nmhkahn/deep_learning_tutorial)

## PROFESSIONAL SERVICE

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- Reviewer**  
· Journal: TPAMI, TIP, TMM, TCSVT