

# Namhyuk Ahn

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## 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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(\* indicates equal contribution)

- [12] **Namhuuk Ahn**, Patrick Kwon, Jihye Back, Kibeom Hong, Seungkwon Kim. Interactive Cartoonization with Controllable Perceptual Factors. *preprint* 2022.
- [11] Jihye Back\*, Seungkwon Kim\*, **Namhuuk Ahn**. WebtoonMe: A Data-Centric Approach for Full-Body Portrait Stylization. **SIGGRAPH Asia** 2022. (Technical Communications)
- [10] Seungkwon Kim, Chaeheon Gwak, Dohyun Kim, Kwangho Lee, Jihye Back, **Namhyuk Ahn\***, Daesik Kim\*. Cross-Domain Style Mixing for Face Cartoonization. **CVPRW** 2022.
- [9] Wooksu Shin, **Namhyuk Ahn**, Jeong-Hyeon Moon, Kyung-Ah Sohn. Exploiting Distortion Information for Multi-degraded Image Restoration. **CVPRW** 2022.
- [8] **Namhyuk Ahn**, Byungkun Kang, Kyung-Ah Sohn. Efficient Deep Neural Network for Photo-realistic Image Super-Resolution. Pattern Recognition (**PR**), 2022 (IF=**7.740**).
- [7] Junekyu Park, Jeong-Hyeon Moon, **Namhyuk Ahn**, Kyung-Ah Sohn. What is Wrong with One-Class Anomaly Detection?. **ICLRW** 2021.

- [6] Sijin Kim\*, **Namhyuk Ahn\***, Kyung-Ah Sohn. Restoring Spatially-Heterogeneous Distortions using Mixture of Experts Network. **ACCV** 2020.
- [5] Jaejun Yoo\*, **Namhyuk Ahn\***, Kyung-Ah Sohn. Rethinking Data Augmentation for Image Super-resolution: A Comprehensive Analysis and a New Strategy. **CVPR** 2020.
- [4] **Namhyuk Ahn\***, Jaejun Yoo\*, Kyung-Ah Sohn. SimUSR: A Simple but Strong Baseline for Unsupervised Image Super-resolution. **CVPRW** 2020.
- [3] **Namhyuk Ahn**, Byungkun Kang, Kyung-Ah Sohn. Fast, Accurate, and Lightweight Super-Resolution with Cascading Residual Network. **ECCV** 2018.
- [2] **Namhyuk Ahn**, Byungkun Kang, Kyung-Ah Sohn. Image Super-resolution via Progressive Cascading Residual Network. **CVPRW** 2018.
- [1] **Namhyuk Ahn**, Byungkun Kang, Kyung-Ah Sohn. Image Distortion Detection using Convolutional Neural Network. **ACPR** 2017.

## AWARDS

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**Honorable Mention Award**, NTIRE 2018 Challenge *June 2018*  
 · Single image super-resolution challenge (track 1) on NTIRE workshop @ 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, Signal Processing: Image Communication  
 · Workshops: NTIRE (@ CVPR 2022)