# Namhyuk Ahn

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## RESEARCH INTEREST

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

## WORK EXPERIENCE

**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

**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

(* indicates equal contribution)

[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**, Byungkon 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**, Byungkon Kang, Kyung-Ah Sohn. Fast, Accurate, and Lightweight Super-Resolution with Cascading Residual Network. **ECCV** 2018.

[2] **Namhyuk Ahn**, Byungkon Kang, Kyung-Ah Sohn. Image Super-resolution via Progressive Cascading Residual Network. **CVPRW** 2018.

[1] **Namhyuk Ahn**, Byungkon Kang, Kyung-Ah Sohn. Image Distortion Detection using Convolutional Neural Network. **ACPR** 2017.

## AWARDS

**Honorable Mention Award,** NTIRE 2018 Challenge *June 2018*

· Single image super-resolution challenge (track 1) on NTIRE workshop @ CVPR 2018.

## TEACHING EXPERIENCE

**Lecture Instructor,** Fastcampus *Aug. 2017*

· Lecture material: `https://github.com/nmhkahn/deep_learning_tutorial`

## PROFESSIONAL SERVICE

**Reviewer**

· Journal: TPAMI, TIP, TMM, TCSVT, Signal Processing: Image Communication

· Workshops: NTIRE (@ CVPR 2022)

Last updated: 19 October, 2022