

# 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*
- 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] **Namhyuk Ahn**, Patrick Kwon, Jihye Back, Kibeom Hong, Seungkwon Kim. Interactive Cartoonization with Controllable Perceptual Factors. **CVPR** 2023
- [11] Jihye Back\*, Seungkwon Kim\*, **Namhyuk 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**, Byungkong Kang, Kyung-Ah Sohn. Fast, Accurate, and Lightweight Super-Resolution with Cascading Residual Network. **ECCV** 2018
- [2] **Namhyuk Ahn**, Byungkong Kang, Kyung-Ah Sohn. Image Super-resolution via Progressive Cascading Residual Network. **CVPRW** 2018
- [1] **Namhyuk Ahn**, Byungkong Kang, Kyung-Ah Sohn. Image Distortion Detection using Convolutional Neural Network. **ACPR** 2017

## PROFESSIONAL SERVICE

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### Reviewer

- Conference: CVPR (2023), ICCV (2023)
- Journal: TPAMI, TIP, TMM, TCSVT, Signal Processing: Image Communication
- Workshops: NTIRE (@ CVPR 2022)

### Guest Editor

- Mathematical Biosciences and Engineering

## MISCELLANEOUS

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### Press

- “日本のマンガを脅かす韓「ウェブトゥン」AI等の活用で急追”, Korea world times *Dec. 15, 2022*
- “내 얼굴이 웹툰 캐릭터로 변했다”, Digital daily *Jan. 4, 2023*
- “미국·유럽·일본도 '감탄'...웹툰 AI 시대 열어야죠”, TechM *Feb. 8, 2023*

### Teaching

- Lecture Instructor, Fastcampus *Aug. 2017*

### Awards

- Honorable Mention Award, SR challenge on NTIRE workshop @ CVPR 2018 *June 2018*