# Seonghyeon Nam

Ph.D. Candidate, Computer Science

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## Research Interests

**Computer Vision, Machine Learning**
generative models for image/video, vision and language, image enhancement

## Education

**Yonsei University**, Seoul, Republic of Korea
*Ph.D.*, Computer Science, *Mar' 14 - Feb' 20 (Expected)*
Advisor: Seon Joo Kim
**GPA: 4.10/4.3**

**Yonsei University**, Seoul, Republic of Korea
*B.S.*, Computer Science, *Mar' 09 - Jeb' 14*
**GPA: 3.69/4.3**

## Experience

**Adobe**, San Jose, United States
*Research Collaborator* *Jun' 19 - Present*
- Supervisor: Ning Xu

**Snap Inc.**, Los Angeles, United States
*Research Intern* *May' 18 - Aug' 18*
- Supervisor: Chongyang Ma
- Worked on the problem of synthesizing time-lapse videos from a single image.

**ClasseStudio, Inc.**, Seoul, South Korea
*Software Engineer* *Mar' 12 - Dec' 13*
- Developed Android applications with RESTful back-end service.

**Sorf, Inc.**, Seoul, South Korea
*Software Engineer* *Jul' 10 - Jan' 12*
- Developed Android applications with RESTful back-end service.

## Publications

Yunji Kim, **S. Nam**, In Jo, and S. J. Kim. Unsupervised Keypoint Learning for Guiding Class-conditional Video Prediction. To appear in *Advances in Neural Information Processing Systems* **(NeurIPS)**, 2019.

**S. Nam**, C. Ma, M. Chai, W. Brendel, N. Xu, and S. J. Kim. End-to-End Time-Lapse Video Synthesis from a Single Outdoor Image. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* **(CVPR)**, 2019.

**S. Nam**, Y. Kim, and S. J. Kim. Text-Adaptive Generative Adversarial Networks: Manipulating Images with Natural Language. In *Advances in Neural Information Processing Systems* **(NeurIPS)**, 2018 **(Spotlight)**.

**S. Nam** and S. J. Kim. Modelling the Scene Dependent Imaging in Cameras with a Deep Neural Network. In *Proceedings of the IEEE International Conference on Computer Vision* **(ICCV)**, 2017.

**S. Nam***[1], Y. Hwang*, Y. Matsushita, and S. J. Kim. A Holistic Approach to Cross-Channel

[1]Equal contribution

Image Noise Modeling and its Application to Image Denoising. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (**CVPR**), 2016 (**Spotlight**).

## Patent

**Application**
Apparatus and method for generating manipulated image based on natural language and system using the same. **Korea Patent No. 10-2019-0003634**
Method and apparatus for image adjustment based on semantics-aware. **Korea Patent No. 10-2019-0003662**

## Program Committee

**Conference Reviewer**

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|---|---|
| IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**) | *2018, 2019* |
| IEEE International Conference on Computer Vision (**ICCV**) | *2019* |
| AAAI Conference on Artificial Intelligence (**AAAI**) | *2020* |
| Asian Conference on Computer Vision (**ACCV**) | *2018* |
| Winter Conference on Computer Vision (**WACV**) | *2017, 2018* |

**Journal Reviewer**
IEEE Transactions on Image Processing (**TIP**)

## Talks

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| **Doctoral Colloquium**, Korean Conference on Computer Vision (**KCCV**) | *2019* |
| **Tech Talk**, NAVER Corp. | *2017, 2018* |

## Honors & Awards

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| **NAVER Fellowship**, NAVER Corp. | *2017* |
| **Excellence Award**, Dept. of Computer Science, Yonsei University | *2016* |
| **Bronze Prize**, 22$^{nd}$ Samsung HumanTech Paper Award | *2016* |
| **Global Ph.D. Fellowship**, National Research Foundation of Korea (NRF) | *2015 - Present* |

## Skills

**Languages**
**Python**, **C/C++**, **Matlab**, Java, C#, HTML, PHP

**Deep Learning Libraries**
**PyTorch**, TensorFlow, Caffe, Keras

**ETC**
OpenCV, Android SDK