# Seonghyeon Nam

Ph.D. Candidate, Computer Science

Seoul, Republic of Korea
shnnam@yonsei.ac.kr
Website : http://snam.ml
LinkedIn: https://www.linkedin.com/in/seonghyeonnam
GoogleScholar: https://scholar.google.co.kr/citations?user=Gnly5EQAAAAJ
Github : https://github.com/woozzu
+82-10-4031-2012


## 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 - Aug' 20 (Expected)*
Advisor: Prof. 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**

## Research Experience

**Adobe**, San Jose, United States
*Research Assistant* *Jun' 19 - Jan' 20*
- Advisor: Dr. Ning Xu
- Worked remotely on the problem of natural language based image editing.

**Snap Inc.**, Los Angeles, United States
*Research Intern* *May' 18 - Aug' 18*
- Advisor: Dr. Chongyang Ma
- Worked on the problem of synthesizing time-lapse videos from a single image.
- Developed a deep generative model for hallucinating outdoor illumination without reference.
- Took the lead on publishing a paper at CVPR 2019.

**Yonsei University**, Seoul, South Korea
*Research Assistant* *Mar' 14 - Present*
- Advisor: Prof. Seon Joo Kim

## Engineering Experience

**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

Y. Kim, **S. Nam**, I. Cho, and S. J. Kim. Unsupervised Keypoint Learning for Guiding Class-Conditional Video Prediction. 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 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**
Method and Apparatus for Generating Video Based on Keypoints. **Korea Patent No. 10-2019-0172877**
Method for Enhancing Motion Transfer using Multiple Sources and Cycle Training **Korea Patent No. 10-2019-0175557**
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**

| | |
|---|---|
| IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**) | *2018, 2019, 2020* |
| IEEE International Conference on Computer Vision (**ICCV**) | *2019* |
| European Conference on Computer Vision (**ECCV**) | *2020* |
| Advances in Neural Information Processing Systems (**NeurIPS**) | *2020* |
| 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**)
Computer Vision and Image Understanding (**CVIU**)

## Talks

| | |
|---|---|
| **Doctoral Colloquium**, Korean Conference on Computer Vision (**KCCV**) | *2019* |
| **Spotlight**, Conference on Neural Information Processing Systems (**NeurIPS**) | *2018* |
| **Tech Talk**, NAVER Corp. | *2017, 2018* |
| **Spotlight**, IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**) | *2016* |

## Honors & Awards

| | |
|---|---|
| **NAVER Fellowship**, NAVER Corp. | *2017* |
| **Excellence Award**, Dept. of Computer Science, Yonsei University | *2016* |
| **Bronze Prize**, 22nd Samsung HumanTech Paper Award | *2016* |
| **Global Ph.D. Fellowship**, National Research Foundation of Korea (NRF) | *2015 - 2019* |

## Skills

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

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

[1] Equal contribution

**ETC**
OpenCV, Android SDK