

Sunnyvale, CA, USA

snam@fb.com

Website : <http://snam.ml>

LinkedIn: <https://www.linkedin.com/in/seonghyeonnamm>

GoogleScholar: <https://scholar.google.co.kr/citations?user=Gnly5EQAAAAAJ>

Github : <https://github.com/woozu>

Seonghyeon Nam

PH.D., COMPUTER SCIENCE

RESEARCH INTERESTS

Computer Vision, Machine Learning

computational photography, deep generative models, learning with minimal supervision

EXPERIENCE

Meta (Facebook), Sunnyvale, California, United States

Research Scientist

Feb' 22 - Present

York University, Toronto, Ontario, Canada

Postdoctoral Fellow

Jan' 21 - Jan' 22

- Supervisor: Prof. Michael S. Brown

- Worked on multi-image fusion and layer separation using coordinate-based neural representations.

Samsung AI Center, Toronto, Ontario, Canada

Postdoctoral Intern

Aug' 21 - Nov' 21

- Supervisor: Prof. Michael S. Brown

- Worked on a raw image reconstruction based on metadata.

Snap Inc., Los Angeles, California, 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.

Yonsei University, Seoul, South Korea

Research Assistant

Mar' 14 - Aug' 20

- Advisor: Prof. Seon Joo Kim

EDUCATION

Yonsei University, Seoul, South Korea

Ph.D., Computer Science,

Mar' 14 - Aug' 20

Advisor: Prof. Seon Joo Kim

GPA: 4.10/4.3

Yonsei University, Seoul, South Korea

B.S., Computer Science,

Mar' 09 - Feb' 14

GPA: 3.69/4.3

PUBLICATIONS

D. Kim, J. W. Kim, **S. Nam**, D. Lee, Y. Lee, N. Kang, H.-E. Lee, B. Yoo, J.-J. Han, and S. J. Kim. Large Scale Multi-Illuminant (LSMI) Dataset for Developing White Balance Algorithm under Mixed Illumination. In *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*, 2021.

Y. H. Kim, **S. Nam**, and S. J. Kim. Temporally Smooth Online Action Detection using Cycle-consistent Future Anticipation. *Pattern Recognition (PR)* 116 (2021): 107954.

S. Jeon, **S. Nam**, S. W. Oh, and S. J. Kim. Cross-Identity Motion Transfer for Arbitrary Objects through Pose-Attentive Video Reassembling. In *Proceedings of the European Conference on Computer Vision (ECCV)*, 2020.

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

Registration

Method and Apparatus for Generating Video Based on Keypoints. **Korea Patent No. 10-2231391**

Apparatus and method for generating manipulated image based on natural language and system using the same. **Korea Patent No. 10-2192015**

Method and apparatus for image adjustment based on semantics-aware. **Korea Patent No. 10-2192016**

ACADEMIC SERVICE

Conference Reviewer

IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**) 2018 - Present

IEEE International Conference on Computer Vision (**ICCV**) 2019 - Present

European Conference on Computer Vision (**ECCV**) 2020

Advances in Neural Information Processing Systems (**NeurIPS**) 2020 - Present

International Conference on Learning Representations (**ICLR**) 2021

AAAI Conference on Artificial Intelligence (**AAAI**) 2020

Asian Conference on Computer Vision (**ACCV**) 2018

Winter Conference on Applications of Computer Vision (**WACV**) 2017, 2018

Journal Reviewer

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

Computer Vision and Image Understanding (**CVIU**)

TALKS

Invited Talk, Samsung AI Center Toronto 2021

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

Outstanding Reviewer, ICCV 2021 2021

VISTA Postdoctoral Fellowship, \$55,000CAD/year, York University 2021

¹Equal contribution

Postdoctoral Fellowship , \$39,000/year, National Research Foundation of Korea	<i>2021</i>
NAVER Fellowship , \$4,300, NAVER Corp.	<i>2017</i>
Excellent Paper Award , Dept. of Computer Science, Yonsei University	<i>2016</i>
Bronze Prize , \$4,300, 22 nd Samsung HumanTech Paper Award	<i>2016</i>
Global Ph.D. Fellowship , \$26,000/year, National Research Foundation of Korea	<i>2015 - 2019</i>

SKILLS

Languages

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

Deep Learning Libraries

PyTorch, TensorFlow, Caffe, Keras

ETC

OpenCV, Android SDK
