

Seonghyeon Nam

PH.D. CANDIDATE, COMPUTER SCIENCE

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RESEARCH INTERESTS **Computer Vision, Machine Learning**
computational photography, deep generative models, learning with minimal supervision

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 - Feb' 14*
GPA: 3.69/4.3

RESEARCH EXPERIENCE

Adobe, San Jose, United States (Remote Collaboration)
Research Assistant *Jun' 19 - Jan' 20*
- Advisor: Dr. Ning Xu
- Worked 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

S. Jeon, **S. Nam**, S. W. Oh, and S. J. Kim. Cross-Identity Motion Transfer for Arbitrary Objects through Pose-Attentive Video Reassembling. To appear 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

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**

ACADEMIC SERVICE

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

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

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

¹Equal contribution

SKILLS

Languages

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

Deep Learning Libraries

PyTorch, TensorFlow, Caffe, Keras

ETC

OpenCV, Android SDK

REFERENCES

References are provided upon request.
