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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.**, Venice, 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
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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
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PUBLICATIONS

- S. Nam, M. A. Brubaker, and M. S. Brown. Neural Image Representations for Multi-Image Fusion and Layer Separation. In *Proceedings of the European Conference on Computer Vision (ECCV)*, 2022.
- Y. H. Kim, S. Nam, and S. J. Kim. 2PESNet: Towards Online Processing of Temporal Action Localization. *Pattern Recognition (PR)* 131 (2022): 108871.
- S. Nam, A. Punnappurath, M. A. Brubaker and M. S. Brown. Learning sRGB-to-Raw-RGB De-rendering with Content-Aware Metadata. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022.
- 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**)

¹Equal contribution

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

SKILLS	Languages	
	Python, C/C++, Matlab, Java, C#, HTML, PHP	
	Deep Learning Libraries	
	PyTorch, TensorFlow, Caffe, Keras	
	ETC	
	OpenCV, Android SDK	
