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Seonghyeon Nam

Ph.D., Computer Science

Research Interests

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

Experience

Meta (Facebook), Burlingame, California, United States
Research Scientist — *Feb' 22 - Present*

York University, Toronto, Ontario, Canada
Postdoctoral Fellow — *Jan' 21 - Jan' 22*
- Superviser: Prof. Michael S. Brown

Samsung AI Center, Toronto, Ontario, Canada
Postdoctoral Intern — *Aug' 21 - Nov' 21*
- Superviser: Prof. Michael S. Brown

Snap Inc., Venice, California, United States
Research Intern — *May' 18 - Aug' 18*
- Advisor: Dr. Chongyang Ma

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 - Jeb' 14*
GPA: 3.69/4.3

Publications

H. Jung, **S. Nam**, N. Sarafianos, S. Yoo, A. Sorkine-Hornung, and R. Ranjan. Geometry Transfer for Stylizing Radiance Fields. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* **(CVPR)** 2024.

Z. Wan, C. Richardt, A. Bozic, C. Li, V. Rengarajan, **S. Nam**, X. Xiang, T. Li, B. Zhu, R. Ranjan, and J. Liao. Learning Neural Duplex Radiance Fields for Real-Time View Synthesis. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* **(CVPR)**, 2023.

S. Yang, S. Jeon, **S. Nam**, and S. J. Kim. Dense Interspecies Face Embedding. In *Advances in Neural Information Processing Systems* **(NeurIPS)**, 2022.

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 Derendering 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*

[1] Equal contribution

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 Pattern Recognition and Machine Intelligence (**TPAMI**)
IEEE Transactions on Image Processing (**TIP**)
Computer Vision and Image Understanding (**CVIU**)

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, 22nd 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