

# Seungjun Nah

## Contact Information

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## Research Interests

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I am interested in deep learning and low-level computer vision problems, especially visual quality enhancement and computational photography. My recent research topics include de-blurring, super-resolution, neural network compression and acceleration.

## Education

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March 2014 -	Seoul National University
August 2021	Ph.D. in School of Electrical and Computer Engineering Advisor: Kyoung Mu Lee
March 2010 -	Seoul National University
February 2014	B.S. in School of Electrical and Computer Engineering

## Experiences

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- Research Scientist, NVIDIA Corporation, Santa Clara, CA, USA, 01.2022 - current
- Postdoctoral Researcher, Seoul National University, Seoul, Korea, 09.2021 - 11.2021
- Guest Scientist, Max Planck Institute for Intelligent Systems, Tübingen, Baden-Württemberg, Germany, 04.2019 - 10.2019
- Research Intern, Microsoft Research, Redmond, WA, USA, 05.2017 - 08.2017

## Awards and Honors

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- KCCV Sang-Uk Lee Prize, 2022
- Outstanding Reviewer: CVPR 2021, ICCV 2019, 2021, ECCV 2020
- Distinguished Dissertation Award: Department of ECE, SNU, 2021
- CVPR 2021 Doctoral Consortium
- Highly Cited Paper Award: Department of ECE, SNU, 2018
- AWS Cloud Credits for Research, 2018
- Challenge Winner & Best Paper: NTIRE 2017 Challenge on Single Image Super-Resolution
- Microsoft Azure Research Award, 2017

## Scholarships

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- Youlchon AI Star Scholarship, Youlchon Foundation, 2020
- Ph. D. Scholarship, Max Planck Society, 04.2019 - 10.2019
- Electrical Engineering and Computer Science Graduate Student program, Korea Foundation for Advanced Studies, 2014 - 2018
- National Scholarship for Science & Engineering, Korea Student Aid Foundation, 2010 - 2013

## Community Activities

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- Conference reviewer: CVPR, ICCV, ECCV, WACV, SIGGRAPH, SIGGRAPH Asia, NeurIPS, AAAI, ICLR, ICML
- Journal reviewer: IEEE TPAMI, TIP, TNNLS, JSTSP, TMM, TCI, SPL. Springer IJCV, TVCJ, Elsevier CVIU
- Workshop reviewer: NTIRE 2019-2021. AIM 2019-2020, LCI 2021
- Workshop co-organizer: NTIRE 2019-2021. AIM 2019-2020, AI4CC 2022

## Publications (Selected)

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- Cheeun Hong, Sungyong Baik, Heewon Kim, **Seungjun Nah**, and Kyoung Mu Lee, “Content-Aware Dynamic Quantization for Image Super-Resolution,” ECCV 2022.
- Junghun Oh, Heewon Kim, **Seungjun Nah**, Cheeun Hong, Jonghyun Choi, and Kyoung Mu Lee, “Attentive Fine-Grained Structured Sparsity for Image Restoration,” CVPR 2022. [PDF](#)
- **Seungjun Nah**, Sanghyun Son, Jaerin Lee, and Kyoung Mu Lee, “Clean Images are Hard to Reblur: Exploiting the Ill-Posed Inverse Task for Dynamic Scene Deblurring,” ICLR 2022. [PDF](#)
- Joonkyu Park, **Seungjun Nah**, and Kyoung Mu Lee, “Recurrence-in-Recurrence Networks for Video Deblurring,” BMVC 2021. [PDF](#)
- **Seungjun Nah**, Sanghyun Son, Suyoung Lee, Radu Timofte and Kyoung Mu Lee *et al.*, “NTIRE 2021 Challenge on Image Deblurring,” CVPRW 2021. [PDF](#)
- Sanghyun Son, Jaerin Lee, **Seungjun Nah**, Radu Timofte and Kyoung Mu Lee *et al.*, “AIM 2020 Challenge on Video Temporal Super-Resolution,” ECCVW 2020. [PDF](#)
- **Seungjun Nah**, Sanghyun Son, Radu Timofte and Kyoung Mu Lee *et al.*, “NTIRE 2020 Challenge on Image and Video Deblurring,” CVPRW 2020. [PDF](#)
- **Seungjun Nah**, Sanghyun Son, Radu Timofte and Kyoung Mu Lee *et al.*, “AIM 2019 Challenge on Video Temporal Super-Resolution: Methods and Results,” ICCVW 2019. [PDF](#)
- **Seungjun Nah**, Sungyong Baik, Seokil Hong, Gyeongsik Moon, Sanghyun Son, Radu Timofte, and Kyoung Mu Lee, “NTIRE 2019 Challenge on Video Deblurring and Super-Resolution: Dataset and Study,” CVPRW 2019. [PDF](#)
- **Seungjun Nah**, Sanghyun Son, and Kyoung Mu Lee, “Recurrent Neural Networks with Intra-Frame Iterations for Video Deblurring,” CVPR 2019. [PDF](#)
- Sanghyun Son, **Seungjun Nah**, and Kyoung Mu Lee, “Clustering Convolutional Kernels to Compress Deep Neural Networks,” ECCV 2018. [PDF](#)
- Tae Hyun Kim, **Seungjun Nah**, and Kyoung Mu Lee, “Dynamic Video Deblurring using a Locally Adaptive Linear Blur Model,” IEEE TPAMI, 2018. [PDF](#)
- Bee Lim, Sanghyun Son, Heewon Kim, **Seungjun Nah**, and Kyoung Mu Lee, “Enhanced Deep Residual Networks for Single Image Super-Resolution,” CVPRW 2017. (**Challenge Winner, Workshop Best Paper**) [PDF](#)
- **Seungjun Nah**, Tae Hyun Kim, and Kyoung Mu Lee, “Deep Multi-scale Convolutional Neural Network for Dynamic Scene Deblurring,” CVPR 2017. (**Spotlight**) [PDF](#)

## References

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Ph.D. Advisor   Prof. Kyoung Mu Lee  
Professor at Seoul National University  
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<https://cv.snu.ac.kr>

Collaborator   Prof. Tae Hyun Kim  
Professor at Hanyang University  
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<https://sites.google.com/site/lliger9>