

Suyoung Lee

Curriculum Vitae

Contact Information

Affiliation: Department of ECE, ASRI, Seoul National University, Seoul, Korea
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Research Interests

I am interested in deep learning applications for computer vision problems. At an early stage of my research, I was interested in low-level vision, such as image restoration and video frame interpolation. Now, I am interested in accurate and high-quality 3D reconstruction and scene generation. In particular, I am working on holistic scene reconstruction problems utilizing omnidirectional images such as ODGS and OmniSplat.

Education

Seoul National University (SNU), Seoul, Korea Mar. 2019 - Present
Integrated M.Sc./Ph.D. course in Electric and Computer Engineering
GPA: 4.27 / 4.30 (60 credits in Ph.D. Course of Electrical and Computer Engineering)
Advisor: Prof. Kyoung Mu Lee

Seoul National University (SNU), Seoul, Korea Mar. 2013 - Feb. 2019
B.Sc. in Electric and Computer Engineering
Summa cum laude, GPA: 4.18/4.30 (136 credits in Electrical and Computer Engineering)
Leave for military service (Korea Airforce): Mar. 2015 - Mar. 2017 (24 months)

Gyeonggi Science High School, Suwon, Korea Mar. 2010 - Feb. 2013

Publications

- **Suyoung Lee***, Jaeyoung Chung*, Kihoon Kim, Jaeyoo Huh, Gunhee Lee, Minsoo Lee, and Kyoung Mu Lee, “OmniSplat: Taming Feed-Forward 3D Gaussian Splatting for Omnidirectional Images with Editable Capabilities,” *arXiv preprint*, arXiv:2412.16604, 2024. ¹
- **Suyoung Lee***, Jaeyoung Chung*, Jaeyoo Huh, and Kyoung Mu Lee, “ODGS: 3D Scene Reconstruction from Omnidirectional Images with 3D Gaussian Splatting,” in Proceedings of Neural Information Processing Systems (**NeurIPS**), 2024.

¹* indicates equal contribution

- Jaeyoung Chung*, **Suyoung Lee***, Hyeongjin Nam, Jaerin Lee, and Kyoung Mu Lee, “LucidDreamer: Domain-free Generation of 3D Gaussian Splatting Scenes,” *arXiv preprint*, arXiv:2311.13384, 2023.
- Myungsub Choi, **Suyoung Lee**, Heewon Kim, and Kyoung Mu Lee, “Motion-aware dynamic architecture for efficient frame interpolation,” in Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV), 2021.
- Sanghyun Son, **Suyoung Lee**, Seungjun Nah, Radu Timofte, and Kyoung Mu Lee, “NTIRE 2021 challenge on video super-resolution,” in Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshop, 2021.
- Seungjun Nah, Sanghyun Son, **Suyoung Lee**, Radu Timofte, and Kyoung Mu Lee, “NTIRE 2021 challenge on image deblurring,” in Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshop, 2021.
- **Suyoung Lee**, Myungsub Choi, and Kyoung Mu Lee, “DynaVSR: Dynamic Adaptive Blind Video Super-Resolution,” in Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2021.

Service

- **Workshop Challenge Co-organizer @ CVPR 2021** Jun. 2021
NTIRE 2021 Challenge on Image Deblurring and Video Super-Resolution
- **Conference Reviewer**
CVPR 2025, ECCV 2024, CVPR 2024, ICCV 2023, CVPR 2023, WACV 2023.

Scholarships

- **Electrical Engineering and Computer Science** 2019-2023
Graduate Student program,
Korea Foundation for Advanced Studies
- **National Scholarship for Science & Engineering** 2013-2018
Korea Student Aid Foundation

Skills

PyTorch, Python, C++, MATLAB, L^AT_EX

References

Advisor Kyoung Mu Lee
 Distinguished Professor
 Seoul National University
 kyoungmu@snu.ac.kr
 <https://cv.snu.ac.kr/index.php/kmlee>