

Minkwan Kim

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Research Interests

3D reconstruction and scene understanding — developing representations and algorithms for accurate, robust, and scalable understanding of complex 3D environments from visual data. Previously worked on computational imaging, novel optical systems, and 3D display technologies.

Education

Seoul National University (SNU) <i>Ph.D. Student, Electrical and Computer Engineering</i> Advisor: Prof. Young Min Kim (3D Vision Lab)	2023 – Present
Seoul National University (SNU) <i>Ph.D. Student, Electrical and Computer Engineering</i> Advisor: Prof. Byoung-ho Lee (OEQELAB)	2021 – 2023
Seoul National University (SNU) <i>B.S., Electrical and Computer Engineering</i> GPA: 3.8 / 4.3	2017 – 2021

Publications

- [1] LTGS: Long-Term Gaussian Scene Chronology from Sparse View Updates
Minkwan Kim, Junho Kim, Seungmin Lee, Young Min Kim
[CVPR 2026, Findings](#)
- [2] Geometry-Aware Scene Configurations for Novel View Synthesis
Minkwan Kim, Changwoon Choi, Young Min Kim
[IEEE Transactions on Visualization and Computer Graphics 2026 \(TVCG 2026, Poster presentation at VR 2026\)](#)
- [3] Humans as a Calibration Pattern: Dynamic 3D Scene Reconstruction from Unsynchronized and Uncalibrated Videos
Changwoon Choi, Jeongjun Kim, Geonho Cha, **Minkwan Kim**, Dongyoon Wee, Young Min Kim
[ICCV 2025](#)
- [4] Dynamic Motion Recovery from Partial Point Cloud Sequence
Hojun Jang, **Minkwan Kim**, Jinseok Bae, Young Min Kim
[ICCV 2023](#)
- [5] Multi-Illumination 3D Holographic Display using a Binary Mask
Youngjin Jo, Dongheon Yoo, Dukho Lee, **Minkwan Kim**, Byoung-ho Lee
[Optics Letters 2022](#)
- [6] Compact Tomographic Near-Eye Display using a MEMS Scanning Mirror
Minkwan Kim, Seungjae Lee, Youngjin Jo, Siwoo Lee, Byoung-ho Lee
[Optics Letters 2021](#)

Research Experience

Optical Engineering and Quantum Electronics Lab, SNU <i>Research Intern · Advisor: Prof. Byoung-ho Lee</i>	2020 – 2021
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Technical Skills

Programming: Python, MATLAB, C++

Frameworks & Tools: PyTorch, OpenCV, Open3D, 3D Gaussian Splatting, NeRF, Git

Research Areas: 3D Reconstruction, Novel View Synthesis, 3D Scene Understanding, Computational Imaging, Optical Systems

Languages: Korean (Native), English (Upper-Intermediate)