

Gyeongjin Kang

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Research Interest

I have broad interests in Computer Vision and Graphics, particularly in 3D/4D representation and reconstruction learning that enables robust scene understanding across diverse and complex real-world environments. In particular, I am interested in **efficient architectural design for feed-forward geometric models**, **self-supervised geometry learning**, and **world modeling with geometric representations**.

Education

- Sungkyunkwan University** *Mar 2024 – Feb 2026*
MS in Electrical and Computer Engineering
- GPA: 4.42/4.5
- Sungkyunkwan University** *Mar 2017 – Feb 2024*
BEng in Electronic and Electrical Engineering
- GPA: 4.17/4.5 (Major GPA: 4.32/4.5)

Experience

- Research Experience** (Advisor: Eunbyung Park) *South Korea*
V-Lab, Yonsei University *Sep 2023 – Now*
- Self-supervised 3D representation learning
 - Efficient feed-forward 3D reconstruction learning
- Engineer Intern** *South Korea*
Samsung Electronics *Mar 2022 – June 2022*
- Automated evaluation and analysis systems for semiconductor production.
 - Data analysis on semiconductor manufacturing metrics.
- Military Service** *Mar 2018 – Nov 2019*
- Republic of Korea Army.

Publications

* Equal contribution † Corresponding author

- Multi-view Pyramid Transformer: Look Coarser to See Broader** [Link](#) [↗](#) *CVPR, 2026*
Gyeongjin Kang^{*}, Seungkwon Yang^{*}, Seungtae Nam, Younggeun Lee, Jungwoo Kim, Eunbyung Park[†]
- Uni3R: Unified 3D Reconstruction and Semantic Understanding via Generalizable Gaussian Splatting from Unposed Multi-View Images** [Link](#) [↗](#) *CVPR, 2026*
Xiangyu Sun^{*}, Haoyi Jiang^{*}, Liu Liu, Seungtae Nam, *Gyeongjin Kang*, Xinjie Wang, Wei Sui, Zhizhong Su, Wenyu Liu, Xinggang Wang, Eunbyung Park[†]
- iLRM: An Iterative Large 3D Reconstruction Model** [Link](#) [↗](#) *CVPR, 2026*
Gyeongjin Kang, Seungtae Nam, Xiangyu Sun, Sameh Khamis, Abdelrahman Mohamed, Eunbyung Park[†]
- Generative Densification: Learning to Densify Gaussians for High-Fidelity Generalizable 3D Reconstruction** [Link](#) [↗](#) *CVPR (Highlight), 2025*
Seungtae Nam^{*}, Xiangyu Sun^{*}, *Gyeongjin Kang*, Younggeun Lee^{*}, Seungjun Oh, Eunbyung Park[†]
- SelfSplat: Pose-Free and 3D Prior-Free Generalizable 3D Gaussian Splatting** [Link](#) [↗](#) *CVPR, 2025*

Gyeongjin Kang^{*}, Jisang Yoo^{*}, Jihyeon Park, Seungtae Nam, Hyeonsoo Im, Sangheon Shin, Sangpil Kim, Eunbyung Park[†]

CodecNeRF: Toward Fast Encoding and Decoding, Compact, and High-quality Novel-view Synthesis [Link](#) [↗](#)

AAAI, 2025

Gyeongjin Kang^{*}, Younggeun Lee^{*}, Seungjun Oh, Eunbyung Park[†]

Preprints

* Equal contribution † Corresponding author

OpenMonoGS-SLAM: Monocular Gaussian Splatting SLAM with Open-set Semantics [Link](#) [↗](#)

arXiv, 2025

Jisang Yoo, *Gyeongjin Kang*, Hyunkyu Ko, Eunbyung Park[†]

Gather-Scatter Mamba: Accelerating Propagation with Efficient State Space Model [Link](#) [↗](#)

arXiv, 2025

Hyunkyu Ko, Youbin Kim, Jihyeon Park, Dongheok Park, *Gyeongjin Kang*, Wonjin Cho, Hyung Yi, Eunbyung Park[†]

Honers and Awards

AI Champion Competition

- High-performance, high-efficiency large-scale 3D reconstruction model
- 9th place, Ministry of Science and ICT (South Korea)

Graduate Excellence Scholarship

- Spring 2024, Fall 2024, Spring 2025, Fall 2025

Academic Excellence Scholarship

- Fall 2021, Spring 2023

Teaching experience

Teaching Assistant

- Image Processing (Fall 2025)
- Foundations of Machine Learning (Spring 2025)
- Introduction to Machine Learning (Spring 2024)
- Autonomous driving capstone design (Fall 2023, Fall 2024)
 - [Video Link](#) [↗](#)

Research Mentoring

- Undergraduate research program (Fall 2024)
 - Animatable human avatar

Misc

Programming: PyTorch, Python, C++, CUDA, Linux

Languages: Korean, English