

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 <i>MS in Electrical and Computer Engineering</i>	<i>Mar 2024 – Feb 2026 (Expected)</i>
◦ GPA: 4.42/4.5	
Sungkyunkwan University <i>BEng in Electronic and Electrical Engineering</i>	<i>Mar 2017 – Feb 2024</i>
◦ GPA: 4.17/4.5 (Major GPA: 4.32/4.5)	

Experience

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

Publications

* Equal contribution † Corresponding author

Generative Densification: Learning to Densify Gaussians for High-Fidelity Generalizable 3D Reconstruction Link ↗	<i>CVPR (Highlight), 2025</i>
Seungtae Nam*, Xiangyu Sun*, Gyeongjin Kang , Younggeun Lee*, Seungjun Oh, Eunbyung Park†	
SelfSplat: Pose-Free and 3D Prior-Free Generalizable 3D Gaussian Splatting Link ↗	<i>CVPR, 2025</i>
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 ↗	<i>AAAI, 2025</i>
Gyeongjin Kang* , Younggeun Lee*, Seungjun Oh, Eunbyung Park†	

Preprints

* Equal contribution † Corresponding author

OpenMonoGS-SLAM: Monocular Gaussian Splatting SLAM with Open-set Semantics Link ↗	<i>arXiv, 2025</i>
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Jisang Yoo, **Gyeongjin Kang**, Hyunkyu Ko, Eunbyung Park[†]

Multi-view Pyramid Transformer: Look Coarser to See Broader [Link ↗](#)

arXiv, 2025

Gyeongjin Kang*, Seungkwon Yang*, Seungtae Nam, Younggeun Lee, Jungwoo Kim, 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[†]

Uni3R: Unified 3D Reconstruction and Semantic Understanding via Generalizable Gaussian Splatting from Unposed Multi-View Images [Link ↗](#)

arXiv, 2025

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 ↗](#)

arXiv, 2025

Gyeongjin Kang, Seungtae Nam, Xiangyu Sun, Sameh Khamis, Abdelrahman Mohamed, Eunbyung Park[†]

Honors 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