

# 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

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

## Experience

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

## Publications

\* Equal contribution    † Corresponding author

<b>Generative Densification: Learning to Densify Gaussians for High-Fidelity Generalizable 3D Reconstruction</b> <a href="#">Link</a> <a href="#">🔗</a>	<i>CVPR (Highlight), 2025</i>
Seungtae Nam*, Xiangyu Sun*, <b>Gyeongjin Kang</b> , Younggeun Lee*, Seungjun Oh, Eunbyung Park†	
<b>SelfSplat: Pose-Free and 3D Prior-Free Generalizable 3D Gaussian Splatting</b> <a href="#">Link</a> <a href="#">🔗</a>	<i>CVPR, 2025</i>
<b>Gyeongjin Kang*</b> , Jisang Yoo*, Jihyeon Park, Seungtae Nam, Hyeonsoo Im, Sangheon Shin, Sangpil Kim, Eunbyung Park†	
<b>CodecNeRF: Toward Fast Encoding and Decoding, Compact, and High-quality Novel-view Synthesis</b> <a href="#">Link</a> <a href="#">🔗</a>	<i>AAAI, 2025</i>
<b>Gyeongjin Kang*</b> , Younggeun Lee*, Seungjun Oh, Eunbyung Park†	

## Preprints

\* Equal contribution    † Corresponding author

<b>OpenMonoGS-SLAM: Monocular Gaussian Splatting SLAM with Open-set Semantics</b> <a href="#">Link</a> <a href="#">🔗</a>	<i>arXiv, 2025</i>
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Jisang Yoo, *Gyeongjin Kang*, Hyunkyu Ko, Eunbyung Park<sup>†</sup>

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

*arXiv*, 2025

*Gyeongjin Kang*<sup>\*</sup>, Seungkwon Yang<sup>\*</sup>, Seungtae Nam, Younggeun Lee, Jungwoo Kim, Eunbyung Park<sup>†</sup>

**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<sup>†</sup>

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

*arXiv*, 2025

Xiangyu Sun<sup>\*</sup>, Haoyi Jiang<sup>\*</sup>, Liu Liu, Seungtae Nam, *Gyeongjin Kang*, Xinjie Wang, Wei Sui, Zhizhong Su, Wenyu Liu, Xinggang Wang, Eunbyung Park<sup>†</sup>

**iLRM: An Iterative Large 3D Reconstruction Model** [Link](#) [🔗](#)

*arXiv*, 2025

*Gyeongjin Kang*, Seungtae Nam, Xiangyu Sun, Sameh Khamis, Abdelrahman Mohamed, Eunbyung Park<sup>†</sup>

## Honers and Awards

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### 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

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### 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

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

**Languages:** Korean, English