

# Gyeongjin Kang

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## Research Interest

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I have broad interests in Computer Vision, particularly in geometric representation and perception learning that enables robust scene understanding across diverse and complex real-world environments. My work has centered on self-supervised geometric learning and efficient architectural design of multi-view transformers. Currently, I am interested in:

- **Scalable Geometric Perception Learning**
  - Self-supervised pre-training for 3D/4D foundation models leveraging large-scale video data.
  - Self-improving geometric perception system with reward signals and knowledge distillation.
- **Vision-centric Multimodal Learning**
  - Cross-modal reasoning with vision as the primary perceptual signal.

## Education

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- 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

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- Research Experience** (Advisor: Eunbyung Park) *South Korea*  
*V-Lab, Yonsei University* *Sep 2023 – Feb 2026*
  - 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

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\* 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†

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## Preprints

\* Equal contribution    † Corresponding author

**2XPlat: Two Experts Are Better Than One Generalist** [Link](#) [↗](#) *arXiv, 2026*  
Hwasik Jeong \*, Seungryong Lee\*, *Gyeongjin Kang*, Seungkwon Yang, Xiangyu Sun, Seungtae Nam, Eunbyung Park†

**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†

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## Honers and Awards

### AI Champion Competition

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

### Academic Excellence Scholarship

- Fall 2021, Spring 2023, Spring 2024, Fall 2024, Spring 2025, Fall 2025

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## 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

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## Misc

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

**Languages:** Korean, English