Byeongjun **Park**

Ph.D. Candidate @ KAIST · Computer Vision

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Education

KAIST (Korea Advanced Institute of Science and Technology) *Daejeon, Korea*

Ph.D. in School of Electrical Engineering *Mar. 2020 - Aug. 2025*

- Advisor: Changick Kim
- GPA: 4.05/4.3

KAIST (Korea Advanced Institute of Science and Technology) *Daejeon, Korea*

B.S. in School of Electrical Engineering *Mar. 2015 - Feb. 2020*

- Got a National Academic Excellence Scholarship (Science and Engineering, Korea)
- GPA: 3.75/4.3 - Graduated Cum Laude

Research Interest

Diffusion Architecture Reimagine diffusion training as multi-task learning and synergize multiple denoising tasks. **[C4] [C6] [C7]**

One-Image-to-3D Solve practical problems in generating 3D scenes or objects from a single image. **[J1] [C5]**

Text-to-3D Scene Currently, I am interested in the direct generation of 3D Gaussian Splatting only from text prompts. **[P2]**

Publication

(C: conference, J: journal, P: preprint, *: Equal Contribution)

Journal

[J1] Bridging Implicit and Explicit Geometric Transformation for Single-Image View Synthesis *2024*

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)

Byeongjun Park*, Hyojun Go*, Changick Kim

Conference

[C7] Diffusion Model Patching via Mixture-of-Prompts *2025*

AAAI Conference on Artificial Intelligence (AAAI)

Seokil Ham*, Sangmin Woo*, Jin-Young Kim, Hyojun Go, **Byeongjun Park**, Changick Kim

[C6] Switch Diffusion Transformer: Synergizing Denoising Tasks with Sparse Mixture-of-Experts *2024*

European Conference on Computer Vision (ECCV)

Byeongjun Park, Hyojun Go, Jinyoung Kim, Sangmin Woo, Seokil Ham, Changick Kim

[C5] HarmonyView: Harmonizing Consistency and Diversity in One-Image-to-3D *2024*

IEEE/CVF Computer Vision and Pattern Recognition Conference (CVPR)

Sangmin Woo*, **Byeongjun Park***, Hyojun Go, Jinyoung Kim, Changick Kim

[C4] Denoising Task Routing for Diffusion Models *2024*

International Conference on Learning Representations (ICLR)

Byeongjun Park*, Sangmin Woo*, Hyojun Go*, Jinyoung Kim*, Changick Kim

[C3] Point-DynRF: Point-based Dynamic Radiance Fields from a Monocular Video *2024*

IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)

Byeongjun Park, Changick Kim

[C2] Temporal Flow Mask Attention for Open-Set Long-Tailed Recognition of Wild Animals in Camera-Trap Images *2022*

IEEE International Conference on Image Processing (ICIP)

Jeongsoo Kim, Sangmin Woo, **Byeongjun Park**, Changick Kim

[C1] Fine-Grained Multi-Class Object Counting *2021*

IEEE International Conference on Image Processing (ICIP)

Hyojun Go, Junyoung Byun, **Byeongjun Park**, Myung-Ae Choi, Seunghwa Yoo, Changick Kim

Preprint

[P2] SplatFlow: Multi-View Rectified Flow Model for 3D Gaussian Splatting Synthesis *2024*

arXiv

Hyojun Go*, **Byeongjun Park***, Jiho Jang, Jin-Young Kim, Soonwoo Kwon, Changick Kim

[P1] DiffRef3D: A Diffusion-based Proposal Refinement Framework for 3D Object Detection *2023*

arXiv

Se-Ho Kim*, Inyong Koo*, Inyoung Lee, **Byeongjun Park**, Changick Kim

Patents

Method and apparatus with scene flow estimation *2022*

US Patent *US20220301190A1*

Youngjun Kwak, Taekyung Kim, Changick Kim, **Byeongjun Park**, Changbeom Park

Work Experience

Koh Young Technology *Seoul, Korea*

AI Research Intern *Mar. 2018 - aug. 2018*

- I was a member of the research team working on an AI-based solution for optimizing the process of mounting chips on PCB boards.

Honors & Awards

2021 **Best Paper**, Samsung Best Paper Award in IEIE Autumn Annual Conference *Korea*

2024 **Invited Talk**, Recent Trends in 3D Content Creation (ETRI) *Korea*

2024 **Finalist**, Qualcomm Innovation Fellowship *Korea*