

# Jaewoo Jung

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## Research Interests

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My research goal is to break down complex computer vision and machine learning problems into practical and efficient solutions. Recently, I am interested in the problem of:

- 3D & 4D Reconstruction
- 3D Feature Representation
- 3D & 4D Diffusion Models

## Education

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**M.S / Ph.D Integrated Course in Artificial Intelligence** October 2024 – Present  
Korea Advanced Institute of Science and Technology (KAIST) Advisor: Seungryong Kim

**M.S in Computer Science and Engineering** March 2023 – August 2024  
Korea University Advisor: Seungryong Kim

- Degree incomplete: Transferred to KAIST with advisor.

**B.S in Computer Science and Engineering** March 2019 – February 2023  
Korea University

- GPA: 4.2 / 4.5 (Graduated *Magna Cum Laude*)
- Interdisciplinary major in Artificial Intelligence.

## Publications

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\*: Equal Contribution, †: Corresponding Author

### International Conference

**[C2] Domain Generalization Using Large Pretrained Models with Mixture-of-Adapters** [Paper](#) | [Project Page](#) | [Code](#)

Gyuseong Lee\*, Wooseok Jang\*, Jinhyeon Kim, **Jaewoo Jung**, Seungryong Kim†  
*Winter Conference on Applications of Computer Vision (WACV 2025)*

**[C1] Unifying Correspondence, Pose and NeRF for Generalized Pose-Free Novel View Synthesis** [Paper](#) | [Project Page](#) | [Code](#)

Sunghwan Hong, **Jaewoo Jung**, Heeseong Shin, Jiaolong Yang†, Seungryong Kim†, Chong Luo†  
*Computer Vision and Pattern Recognition (CVPR 2024)* ([Highlight](#))

### Preprints

**[P5] Cross-View Completion Models are Zero-shot Correspondence Estimators** [Paper](#) | [Project Page](#) | [Code](#)

Honggyu An\*, Jinhyeon Kim\*, Seonghoon Park, **Jaewoo Jung**,  
Jisang Han, Sunghwan Hong, Seungryong Kim†

**[P4] Video Camera Trajectory Editing with Generative Rendering from Estimated Geometry** [Paper](#) | [Project Page](#) | [Code](#)

Junyeong Seo\*, Jisang Han\*, **Jaewoo Jung**\*, Siyoon Jin, Joungbin Lee,  
Takuya Narihira, Kazumi Fukuda, Takashi Shibuya, Donghoon Ahn,  
Shoukang Hu, Seungryong Kim†, Yuki Mitsufuji†

**[P3] PF3plat: Pose-Free Feed-Forward 3D Gaussian Splatting** [Paper](#) | [Project Page](#) | [Code](#)

Sunghwan Hong\*, **Jaewoo Jung**\*, Heeseong Shin, Jisang Han,  
Jiaolong Yang†, Chong Luo†, Seungryong Kim†

## [P2] Relaxing Accurate Initialization Constraint for 3D Gaussian Splatting

[Paper](#) | [Project Page](#) | [Code](#)

[Jaewoo Jung](#)<sup>\*</sup>, Jisang Han<sup>\*</sup>, Honggyu An<sup>\*</sup>, Seonghoon Park<sup>\*</sup>, Jiwon Kang<sup>\*</sup>, Seungryong Kim<sup>†</sup>

Featured on Github (300+ Stars)

## [P1] Self-Evolving Neural Radiance Fields

[Paper](#) | [Project Page](#) | [Code](#)

[Jaewoo Jung](#)<sup>\*</sup>, Jisang Han, Jiwon Kang, Seongchan Kim, Seungryong Kim<sup>†</sup>

Workshop on Image Processing and Image Understanding (IPIU 2024) (Outstanding Paper Silver Award)

## Honors

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Outstanding Paper Silver Award, IPIU 2024

2024

- Paper: Self-Evolving Neural Radiance Fields

1st Place, Seoul Asan Hospital 2021 HeLP Challenge: Stroke DWI Segmentation

2021

## Academic Services

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### Conference Reviewers

- International Conference on Learning Representations (ICLR), 2024
- Winter Conference on Applications of Computer Vision (WACV), 2024
- Association of Computing Machinery annual conference on Multi-Media (ACM MM), 2024

## Teaching Experience

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- Teaching Assistant, Introduction to Computer Vision and its Applications (DATA 302), Korea University Spring, 2024
- Teaching Assistant, Computer Vision Learning Course, Samsung Electronics September, 2023
- Teaching Assistant, Visual Question Answering, Samsung Electronics September, 2023
- Teaching Assistant, Introduction to Computer Vision and its Applications (DATA 302), Korea University Fall, 2023