Minkyung Kwon

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Research Interest

My research interests lie at the intersection of computer vision, 3D reconstruction (NeRF and 3DGS), and generative modeling, with a focus on geometry-aware representation learning and efficient novel view synthesis.

Education

Korea Advanced Institute of Science and Technology (KAIST) 2025.03 – Present
M.S. student, Kim Jaechul Graduate School of AI *Seoul, South Korea*
PI: Prof. Seungryong Kim

Pohang University of Science and Technology (POSTECH) 2021.02 – 2025.01
B.S. at Computer Science and Engineering *Pohang, South Korea*
Graduated Cum Laude

Xi'an Hanova International School 2016.04 – 2020.05
International Baccalaureate, awarded Bilingual Diploma *Xi'an, China*
Elected Head Girl

Work Experience

CVLAB, KAIST 2024.08 - 2025.02
Research Intern, Supervised by Prof. Seungryong Kim

Lee Optimization Group, POSTECH 2024.01 - 2024.07
Research Intern, Supervised by Prof. Namhoon Lee

Innowireless 2023.06 – 2023.08
Summer Research Intern. Explored acceleration and compression techniques for Neural Radiance Fields (NeRF) to enable real-time applications. Implemented and evaluated TensoRF for lightweight 3D scene representation, and benchmarked speed–accuracy trade-offs on multi-view datasets.

International Student and Scholar Office, POSTECH 2022 – 2023
Assisted international students in adapting to life in Pohang by providing guidance and support. Planned and organized cultural festivals, local trips, and sports events to promote community engagement.

Publications

Under Review

- **Minkyung Kwon***, Jinhyeok Choi*, Jiho Park*, Seonghu Jeon, Jinhyuk Jang, Min-Seop Kwak, Junyoung Seo, Seungryong Kim†. "CAMEO: Correspondence-Attention Alignment for Multi-View Diffusion Models" (ICLR 2026, under review)
- Min-Seop Kwak*, **Minkyung Kwon***, Jinhyeok Choi*, Jiho Park, Seungryong Kim†. "ReNoV: Feature Warping-and-Conditioning for Representation-Guided Novel View Synthesis." (ICLR 2026, under review)

Honours and Awards

- **Jigok Scholarship**, POSTECH 2021–2025
  Full tuition support
- **Best Paper Award**, Department of Humanities and Social Sciences, POSTECH Aug. 2023
  Awarded for an outstanding course paper in the History of Science lecture
- **CES 2024 Travel Award**, POSTECH Jan. 2024
  Travel grant of 3,000,000 KRW

Skills

Languages: Korean (native), English (fluent), Chinese (elementary)

Technical Skills:

- Programming: Python, C, C++
- Frameworks: PyTorch