

MIN-SEOP KWAK

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RESEARCH INTEREST

Computer Vision, Neural Radiance Fields, Diffusion Models, 3D Reconstruction, Text-to-3D Generation, Image-to-3D Generation

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST AI) Integrated M.S./Ph.D. in Computer Science and Engineering	Aug. 2024 - Present <i>Seoul, Korea</i>
Korea University B.S. in Mechanical Engineering	Mar. 2015 - Feb. 2022 <i>Seoul, Korea</i>

EXPERIENCE

University of Michigan <i>Visiting Researcher, Short-term Scholar</i> Supervised by Prof. Jeong Joon Park	Aug. 2025 - Current <i>Ann Arbor, United States</i>
Naver Cloud <i>Research Intern @ Generation Research</i> Supervised by Jin-Hwa Kim	Jul. 2024 - Jan. 2025 <i>Seoul, Korea</i>
CVLAB, Korea University <i>Research Intern</i> Supervised by Prof. Seungryong Kim	Sep. 2020 - Feb. 2022 <i>Seoul, Korea</i>

PUBLICATION

International Conference

Min-Seop Kwak, Junho Kim, Sangdoo Yun, Dongyoon Han, Taekyoung Kim, Seungryong Kim, Jin-Hwa Kim, “Aligned Novel View Image and Geometry Synthesis via Cross-modal Attention Instillation”, *International Conference on Learning Representations (ICLR)*, 2026.

Jaewoo Jung*, Jisang Han*, Jiwon Kang*, Seongchan Kim, **Min-Seop Kwak**, and Seungryong Kim, “Self-Evolving Neural Radiance Fields”, *ICCV 2025 Workshop on Wild 3D: 3D Modeling, Reconstruction, and Generation in the Wild*, 2025.

Junyoung Seo*, Susung Hong*, Wooseok Jang*, Inès Hyeonsu Kim, **Min-Seop Kwak**, Doyup Lee, and Seungryong Kim, “Retrieval-Augmented Score Distillation for Text-to-3D Generation”, *International Conference on Machine Learning (ICML)*, 2024.

Junyoung Seo*, Wooseok Jang*, **Min-Seop Kwak***, Jaehoon Ko, Hyeonsu Kim, Junho Kim, Jin-Hwa Kim, Jiyoung Lee, and Seungryong Kim, “Let 2D Diffusion Model Know 3D-Consistency for Robust Text-to-3D Generation”, *International Conference on Learning Representations (ICLR)*, 2024.

Jiuhn Song*, Seonghoon Park*, Honggyu An*, Seokju Cho, **Min-Seop Kwak**, Sungjin Cho, and Seungryong Kim, “DäRF: Boosting Radiance Fields from Sparse Inputs with Monocular Depth Adaptation”, *Neural Information Processing Systems (NeurIPS)*, 2023.

Min-Seop Kwak*, Jiuhn Song*, and Seungryong Kim, “GeCoNeRF: Few-shot Neural Radiance Fields via Geometric Consistency”, *International Conference on Machine Learning (ICML)*, 2023.

Preprint

Minkyung Kwon, Jinyeok Choi, Jiho Park, Seonghu Jeon, Jinhyuk Jang, Junyoung Seo, **Minseop Kwak**, Jin-Hwa Kim, Seungryong Kim , “CAMEO: Correspondence-Attention Alignment for Multi-View Diffusion Models”, *arXiv*, 2025.

Min-Seop Kwak, Donghoon Ahn, Hyeonsu Kim, Jin-hwa Kim, and Seungryong Kim, “Geometry-Aware Score Distillation via 3D Consistent Noising and Gradient Consistency Modeling”, *arXiv*, 2024.

RESEARCH PROJECTS

Prior-based NeRF for Multi-object 3D Reconstruction <i>Microsoft Research Asia</i> Supervised by Dr. Chong Luo	Jun. 2022 - Feb. 2023
Neural RGB-D Acceleration with Instant-NGP <i>Samsung SDS</i>	Oct. 2022 - Dec. 2022

HONORS

Award for Academic Excellence (1st Semester, 2020) <i>Korea University, Korea</i>	Jul. 2020
Outstanding Poster Presentation Award <i>2023 Workshop of Image Processing and Image Understanding (IPIU)</i>	Jan. 2023

TEACHING EXPERIENCE

Samsung Display - Computer Vision Lectures <i>Teaching Assistant, Text-to-3D Generation Section</i>	Dec. 2023
Samsung - AI Expert Program <i>Teaching Assistant, Text-to-3D Generation Section</i>	Sept. 2023
LG Electronics - Korea University AI Workshop <i>Teaching Assistant, Neural Radiance Field Section</i>	Feb. 2022

TECHNICAL STRENGTHS

DL, ML Programming	PyTorch, Numpy, JAX Python, C++
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