

# MIN-SEOP KWAK

minseop.kwak@kaist.ac.kr, Homepage

## 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)** Aug. 2024 - Present  
Integrated M.S./Ph.D. in Computer Science and Engineering *Seoul, Korea*

**Korea University** Mar. 2015 - Feb. 2022  
B.S. in Mechanical Engineering *Seoul, Korea*

## EXPERIENCE

---

**University of Michigan** Aug. 2025 - Current  
*Visiting Researcher, Short-term Scholar*  
Supervised by Prof. Jeong Joon Park *Ann Arbor, United States*

**Naver Cloud** Jul. 2024 - Jan. 2025  
*Research Intern @ Generation Research*  
Supervised by Jin-Hwa Kim *Seoul, Korea*

**CVLAB, Korea University** Sep. 2020 - Feb. 2022  
*Research Intern*  
Supervised by Prof. Seungryong Kim *Seoul, Korea*

## 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, Jinhyeok 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

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

HONORS

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

TEACHING EXPERIENCE

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

TECHNICAL STRENGTHS

<b>DL, ML</b>	PyTorch, Numpy, JAX
<b>Programming</b>	Python, C++