Seungwoo Yoo

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ACADEMIC INTERESTS

3D Machine Learning, Geometry Processing, Diffusion Models, Neural Rendering

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) Feb. 2025 -
Ph.D. in Computer Science Advisor: Minhyuk Sung

Korea Advanced Institute of Science and Technology (KAIST) Aug. 2023 - Feb. 2025
M.S. in Computer Science Advisor: Minhyuk Sung

Korea Advanced Institute of Science and Technology (KAIST) Feb. 2019 - Aug. 2023
B.S. in Computer Science (Major) & Electrical Engineering (Minor)
Summa Cum Laude (GPA: 4.01 / 4.3)

WORK EXPERIENCE

KAIST Visual AI Group, School of Computing, KAIST Jun. 2021 - Aug. 2023
Undergraduate Intern Advisor: Minhyuk Sung

PUBLICATIONS

1. **Proxy-Free Gaussian Splats Deformation with Splat-Based Surface Estimation**
   Jaeyeong Kim, **Seungwoo Yoo**, Minhyuk Sung
   3DV 2026

2. **Neural Green's Functions**
   Seungwoo Yoo, Kyeongmin Yeo, Jisung Hwang, Minhyuk Sung
   NeurIPS 2025

3. **Neural Pose Representation Learning for Generating and Transferring Non-Rigid Object Poses**
   Seungwoo Yoo, Juil Koo, Kyeongmin Yeo, Minhyuk Sung
   NeurIPS 2024

4. **As-Plausible-As-Possible: Plausibility-Aware Mesh Deformation Using 2D Diffusion Priors**
   Seungwoo Yoo*, Kunho Kim*, Vladimir G. Kim, Minhyuk Sung (* denotes equal contribution.)
   CVPR 2024

5. **SALAD: Part-Level Latent Diffusion for 3D Shape Generation and Manipulation**
   Juil Koo*, **Seungwoo Yoo***, Minh Hieu Nguyen*, Minhyuk Sung (* denotes equal contribution.)
   ICCV 2023

TEACHING EXPERIENCE

CS492(C): Diffusion and Flow Models School of Computing, KAIST
Course Assistant Fall 2025

CS479: Machine Learning for 3D Data School of Computing, KAIST
Course Assistant Spring 2025

CS492(D): Diffusion Models and Their Applications School of Computing, KAIST
Course Assistant Fall 2024

CS580: Computer Graphics School of Computing, KAIST

Course Assistant	Spring 2024
URP490: Undergraduate Research Participation Program	School of Computing, KAIST
Graduate Assistant	Spring 2024
CS479: Machine Learning for 3D Data	School of Computing, KAIST
Course Assistant	Fall 2023
CS380: Introduction to Computer Graphics	School of Computing, KAIST
Course Assistant	Spring 2023
CS492(A): Machine Learning for 3D Data	School of Computing, KAIST
Course Assistant	Spring 2022

Scholarships and Achievements

Graduate School National Presidential Science Scholarship	
Korea Student Aid Foundation (KOSAF)	2024
National Presidential Science Scholarship	
Korea Student Aid Foundation (KOSAF)	2019 - 2022
KAIST Global Leadership Award	
KAIST	2025
Outstanding TA Award	
School of Computing, KAIST	Spring 2024, Fall 2024, Spring 2025
Outstanding Thesis Award	
School of Computing, KAIST	2025
CoE Leadership Award	
College of Engineering, KAIST	Spring 2023
Grand Prix (1st place), Undergraduate Research Participation (URP) Program	
Associate Vice President of Research, KAIST	Winter/Spring 2022
Dean's List	
College of Engineering, KAIST	Spring 2020, Fall 2020, Fall 2021
Department Honors Scholarship	
College of Engineering, KAIST	Fall 2020

Academic Service

Pacific Graphics 2023	
Student Delegate	Fall 2023
Reviewer	
ICLR	2026
ICML	2025
NeurIPS	2025
SIGGRAPH	2025
SIGGRAPH Asia	2025
3DV	2026
Eurographics	2025
IEEE Transactions on Visualization and Computer Graphics (TVCG)	2025
IEEE Transactions on Multimedia	2024

Skills

Programming Languages	C, C++, Python
Deep Learning Frameworks	PyTorch
Languages	Korean (Native), English (Fluent)