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) 2023 -
M.S. in Computer Science Advisor: Minhyuk Sung

Korea Advanced Institute of Science and Technology (KAIST) 2019 - 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. Neural Pose Representation Learning for Generating and Transferring Non-Rigid Object Poses
   Seungwoo Yoo, Juil Koo, Kyeongmin Yeo, Minhyuk Sung
   NeurIPS 2024

2. 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

3. 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

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 - Present
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
Outstanding Thesis Award	
School of Computing, KAIST	2025
Outstanding TA Award	
School of Computing, KAIST	Spring 2024
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	
SIGGRAPH	2025
Eurographics	2025
IEEE Transactions on Multimedia	2024

Skills

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