Seungwoo Yoo

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ACADEMIC INTERESTS

3D Machine Learning, Diffusion Models, Neural Rendering, Physically Based 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

Geometric AI Lab, School of Computing, KAIST — Jun 2021 - Aug 2023
Undergraduate Intern — Advisor: Minhyuk Sung

PUBLICATIONS

1. As-Plausible-As-Possible: Semantic-Aware Shape Deformation using 2D Diffusion Priors
   Seungwoo Yoo*, Kunho Kim*, Vladimir G. Kim, Minhyuk Sung (* denotes equal contribution.)
   arXiv 2023

2. 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 — 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

Presidential Science Scholarship
Korea Student Aid Foundation (KOSAF) — 2019 - 2022

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

SKILLS

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