Seungwoo Yoo

DveloperY0115 | Seungwoo Yoo | Website | dreamy1534@gmail.com

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

KAIST Visual 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

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

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

Academic Service

Pacific Graphics 2023
Student Delegate Fall 2023

Skills

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