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
   arXiv 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

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 Presidential Science Scholarship
Korea Student Aid Foundation (KOSAF) — 2024 - Present

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

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
  IEEE Transactions on Multimedia

Skills

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