

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)	
<i>Summa Cum Laude</i> (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

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

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, Fall 2024

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

ICML

2025

SIGGRAPH

2025

Eurographics

2025

IEEE Transactions on Multimedia

2024

SKILLS

Programming Languages C, C++, Python

Deep Learning Frameworks PyTorch

Languages Korean (Native), English (Fluent)