

# Seungwoo Yoo

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## ACADEMIC INTERESTS

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3D Machine Learning, Geometry Processing, Diffusion Models, Neural Rendering

## EDUCATION

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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

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KAIST Visual AI Group, School of Computing, KAIST Jun 2021 - Aug 2023  
Undergraduate Intern Advisor: [Minhyuk Sung](#)

## PUBLICATIONS

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- [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

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CS479: Machine Learning for 3D Data Course Assistant	School of Computing, KAIST Spring 2025
CS492(D): Diffusion Models and Their Applications Course Assistant	School of Computing, KAIST Fall 2024
CS580: Computer Graphics Course Assistant	School of Computing, KAIST Spring 2024
URP490: Undergraduate Research Participation Program Graduate Assistant	School of Computing, KAIST Spring 2024
CS479: Machine Learning for 3D Data Course Assistant	School of Computing, KAIST Fall 2023
CS380: Introduction to Computer Graphics Course Assistant	School of Computing, KAIST Spring 2023
CS492(A): Machine Learning for 3D Data Course Assistant	School of Computing, KAIST Spring 2022

## SCHOLARSHIPS AND ACHIEVEMENTS

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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)