

# Seungwoo Yoo

 DeveloperY0115 |  Seungwoo Yoo |  Website |  dreamy1534@gmail.com

## 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)	2025 -
Ph.D. in Computer Science	Advisor: Minhyuk Sung
Korea Advanced Institute of Science and Technology (KAIST)	2023 - 2025
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)	
<i>Summa Cum Laude</i> (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	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

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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, Fall 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

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### Pacific Graphics 2023

Student Delegate

Fall 2023

### Reviewer

ICML

2025

SIGGRAPH

2025

Eurographics

2025

IEEE Transactions on Multimedia

2024

## SKILLS

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### Programming Languages

C, C++, Python

### Deep Learning Frameworks

PyTorch

### Languages

Korean (Native), English (Fluent)