

# 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)

Ph.D. in Computer Science

Feb. 2025 -

Advisor: [Minhyuk Sung](#)

Korea Advanced Institute of Science and Technology (KAIST)

M.S. in Computer Science

Aug. 2023 - Feb. 2025

Advisor: [Minhyuk Sung](#)

Korea Advanced Institute of Science and Technology (KAIST)

B.S. in Computer Science (Major) & Electrical Engineering (Minor)

Feb. 2019 - Aug. 2023

*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 Green's Functions

**Seungwoo Yoo**, Kyeongmin Yeo, Jisung Hwang, Minhyuk Sung

*NeurIPS 2025*

### 2. Neural Pose Representation Learning for Generating and Transferring Non-Rigid Object Poses

**Seungwoo Yoo**, Juil Koo, Kyeongmin Yeo, Minhyuk Sung

*NeurIPS 2024*

### 3. 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*

### 4. 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(C): Diffusion and Flow Models

School of Computing, KAIST

Course Assistant

Fall 2025

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
Course Assistant	Spring 2022

## SCHOLARSHIPS AND ACHIEVEMENTS

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Graduate School National Presidential Science Scholarship	
Korea Student Aid Foundation (KOSAF)	2024
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, Spring 2025
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

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Pacific Graphics 2023	
Student Delegate	Fall 2023
Reviewer	
ICLR	2026
ICML	2025
NeurIPS	2025
SIGGRAPH	2025
SIGGRAPH Asia	2025
3DV	2026
Eurographics	2025
IEEE Transactions on Visualization and Computer Graphics (TVCG)	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)

Last updated: November 4, 2025