# Seungwoo Yoo

 DveloperY0115 |  Seungwoo Yoo |  Website |  dreamy1534@gmail.com

## ACADEMIC INTERESTS

3D Machine Learning, Diffusion Models, Neural Rendering, Physically Based 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

**Geometric AI Lab, School of Computing, KAIST**　　　　　　　　　　Jun 2021 - Aug 2023
Undergraduate Intern　　　　　　　　　　　　　　　　　　　　　Advisor: Minhyuk Sung

## PUBLICATIONS

1. As-Plausible-As-Possible: Semantic-Aware Shape Deformation using 2D Diffusion Priors
   **Seungwoo Yoo**\*, Kunho Kim\*, Vladimir G. Kim, Minhyuk Sung (\* denotes equal contribution.)
   *arXiv 2023*

2. 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

**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

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

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

## Skills

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