

# Hyun Kang

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## — PROFILE

### Understanding Why, Innovating How

As a Master's student, I specialize in 3D vision/graphics and diffusion models. Driven by a deep curiosity to understand the 'why' behind complex problems, my self-motivation fuels my pursuit of innovative AI solutions that push technological boundaries.

## — EDUCATION

### Yonsei University | MEng in Computer Science

Mar 2022 - July 2024 | Seoul, Korea

- Cumulative GPA: 4.11 / 4.50
- Advisor: Dr. In-Kwon Lee
- Research Areas: 3D Vision, Physical Simulation, Diffusion Models

### Yonsei University | BEng in Computer Science

Mar 2018 - Feb 2022 | Seoul, Korea

- Cumulative GPA: 3.86 / 4.50

## — SKILLS

### Technical Skills

- Main Language: Python (NumPy, PyTorch, Open3D)
- Web Development: React framework (Next.js)
- Miscellaneous: Linux Commands, Git, Shell Scripting, LaTeX

### Soft Skills

- Effective Communication, Critical Thinking, Self-Motivation, Time Management
- Language: Korean (native), English (Proficient; TEPS: 474/600)

## — PUBLICATIONS

- Hyun Kang, Dohae Lee, Myungjin Shin, In-Kwon Lee. 2023. "Semantic Guidance Tuning for Text-To-Image Diffusion Models." arXiv preprint arXiv:2312.15964 (2023).
- Dohae Lee, **Hyun Kang**, and In-Kwon Lee. "ClothCombo: Modeling Inter-Cloth Interaction for Draping Multi-Layered Clothes." ACM Transactions on Graphics (TOG) 42.6 (2023): 1-13.

## — PROJECTS

### Designing and Prototyping a Full-Body 3D Scanner

Dec 2021 - Mar 2022 | Solo Project

- (Hardware) Built a 3D scanner with extremely low budget (\$2,000)
- (Software) Develop a pipeline for an automated 3D reconstruction and 3D segmentation for clothes

## — HONORS & AWARDS

### Grand Prize | Yonsei Graduate Student Startup Competition

Sep 2023 | Project Lead (VBody)

- Developed AI based 3D Body Shape Measurement Tool

### Yonsei University Graduate School Scholarship

- Spring 2022, Fall 2022, Spring 2023, Fall 2023

## — INTERESTS

- Fashion & Art
- Reading Books