

Hyun Kang

(+82)10-2546-9947
hyun.kang@hotmail.com
<https://korguy.github.io>

PROFILE

Understanding Foundations, Building Futures

My approach is rooted in first-principles thinking, seeking to understand the fundamental 'why' behind complex problems. My expertise lies in 3D vision/graphics and diffusion models. I am currently exploring the potential of AI agents and their application to automation.

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
- Thesis: "Diffusion Guidance Tuning with Semantic Decomposition"

Yonsei University | BEng in Computer Science

Mar 2018 - Feb 2022 | Seoul, Korea

- Cumulative GPA: 3.86 / 4.50

SKILLS

Technical Skills

- Main Language: Python (PyTorch, Open3D, Langchain)
- 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

Tradinsight: Automated Crypto Trading Agent

Jan 2025 - Feb 2025 | Solo Project

- Develop an automated crypto trading agent that uses technical analysis and sentiment analysis to make trading decisions.

AI Agent for Medication and Supplements Safeguards

Dec 2024 - Jan 2025 | Solo Project

- Develop an AI agent app that can easily manage medications, check interactions, and ensure safety, especially for seniors

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

Part-Aware 3D Reconstruction of a Clothed Avatar from a Single Image

Jun 2021- Dec 2021 | Project Lead

- Develop a pipeline for 3D avatar reconstruction from a single view image and auto-rigging for animation

Detecting and Captioning Web Components

Jan 2021- Jun 2021 | Project Member

- Build a dataset and train an AI model to detect web components (such as banners, images, sidebar)
- Develop a web extension for detecting and captioning web components for better UX of blind people.

Sizeyourself: Virtual Fitting Solution

Mar 2021- May 2021 | Project Lead

- Build a web app providing user size data for improved online retail experiences.

HONORS & AWARDS

Grand Prize | FastCampus AI Ideathon

Jan 2025 | Project Lead

CLO PAPER AWARD | KCGS 2024

Jun 2024 | Project Member

Grand Prize | Yonsei Graduate Student Startup Competition

Sep 2023 | Project Lead

- Developed AI based 3D Body Shape Measurement Tool as a team "VBody"

Yonsei University Graduate School Scholarship

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

Grand Prize | Dept. of Computer Science Capstone Project

Spring 2021, Fall 2021 | Project Lead

MISC.

TA of "OOP" & "Understanding AI and Using AI"

- Spring 2022, Fall 2023

YAI (Yonsei Artificial Intelligence)

Dec 2021 - Jun 2022 | Research Member

Virtual Fitting Start-up "Metown"

Mar 2022 - Feb 2024 | Research Member

- Research and summarize new virtual fitting technologies

YBL (Yonsei Blockchain Lab)

Jun 2018 - Dec 2019 | Research Member

- IMAGURU blockchain hackathon
- Klaytn blockchain hackathon
- Ministry of Science and ICT blockchain report

INTERESTS

- Fashion & Art
- Reading Books