

# Jiho Park

qkrwlgh0314@yonsei.ac.kr | GitHub

## EDUCATION

---

### Yonsei University

*B.S. of Electrical and Electronics Engineering  
(1.5 years of absence due to military service)*

Seoul, Korea

Mar 2019 – Present

GPA: 4.10/4.30

### The University of Texas at Austin

*Exchange Student in Electrical and Computer Engineering*

Texas, USA

Fall 2024 (expected)

## RESEARCH INTEREST

---

Previously, my intrigue was centered on the research field exploring the understanding of the 4D (dynamic 3D) world. Now, I'm deeply interested in how we can use this perception to make informed decisions and take meaningful actions. Consequently, I am refining my research area within Robot Learning, aiming to integrate perception with actionable insights.

## RESEARCH EXPERIENCE

---

### MLCS(Machine Learning and Control Systems) Lab, Yonsei University

Apr 2024 - Present

*Undergraduate Intern*

- Conducting research on the topic of Coarse-to-fine Behavior Cloning with Action Sequence Quantization
- Developed a ROS-based system for robotic manipulation, incorporating the Kinova-Jaco arm, three RGBD cameras, and an AI model

### MIR(Multimodal AI) Lab, Yonsei University

Aug 2023 - Jan 2024

*Undergraduate Intern*

- Studied extensively in the field of 3D Vision, covering 3D Representations, Static & Dynamic 3D Scene Reconstruction
- Developed a large-scale 3D Talking Head Dataset for speech-driven face generation

## WORK EXPERIENCE

---

### RebuilderAI

Jul 2023 - Sep 2023

*Part-time Research Assistant*

- Background image generation for commercial product; built dataset and fine-tuned diffusion model
- Saliency-aware product segmentation

### Uaround

May 2022 - Jun 2022

*Part-time Intern*

- Face similarity modeling for virtual human

## PROJECTS

---

### Coarse-to-fine Behavior Transformer with Action Sequence Quantization

Apr. 2024 - Aug. 2024

- By leveraging the representation power of coarse-to-fine vector quantization, we are expecting our model to achieve strong imitation learning performance and superior inference speed compared to diffusion policy.

### 4D Avatars with Deformable Gaussian Splatting (*github*)

Oct 2023 - Nov 2023

- Applied deformable 3D Gaussian Splatting methods along with facial expression prior for better facial reconstruction and controllability
- Awarded 1st place in 3rd YAICON(Yonsei AI Club Conference)

### OOD Detection Research Project (*report*)

Jun 2023

- Exploring the properties of Generative Model for OOD Detection, with Hierarchical Self-Conditioned AutoEncoder
- Achieved 1st place in the DeepLearningLab(EEE4423) course; invited by the TA to co-author a paper

### Camera Pose Estimation for Tensor Radiance Fields (*report*)

Sep 2023 - Nov 2023

<b>Diffusion Model Web Application Project</b> ( <i>github</i> )	Apr 2023 - May 2023
<ul style="list-style-type: none"> <li>• Sketch &amp; Prompt to Image using ControlNet; fine-tuned the model and applied to the web</li> <li>• Awarded 1st place in 2nd YAICON</li> </ul>	
<b>Virtual Hand Drawing Simulator</b> ( <i>github</i> )	Nov 2022 - Dec 2022

---

## EXTRACURRICULAR

<b>Yonsei AI (YAI)</b>	Jan 2023 - Present
<i>Academic Team Leader(Jan 2024 - Present)</i>	
<ul style="list-style-type: none"> <li>• An AI study club that facilitates the collective pursuit of knowledge among students, fostering collaboration and project development centered on deep learning research.</li> <li>• Presentation Materials: <i>3D Gaussian Splatting, Diffusion Model, SE(3)-DiffusionFields, NeRF for Robotics</i></li> </ul>	
<b>Electrical &amp; Electronics Honor Society, Yonsei</b>	Jul 2022 - Jun 2023
<b>Data Science Lab, Yonsei</b>	Jan 2022 - Dec 2022

---

## SCHOLARSHIPS

<b>Korea-U.S. Advanced Technology Youth Exchange Scholarship</b>	Fall 2024
<i>by Korea Institute for Advancement of Technology(KIAT)</i>	
<ul style="list-style-type: none"> <li>• approx. 9,000 USD for single semester in University of Texas at Austin</li> </ul>	
<b>Yonsei Veritas(High-academic Performers) Scholarship</b>	
<ul style="list-style-type: none"> <li>• Honors: Spring 2022, Fall 2022</li> <li>• High Honors: Spring 2023, Fall 2023</li> </ul>	
<b>Hanseong Son Jae Han Nobel Scholarship</b>	2017 - 2018
<ul style="list-style-type: none"> <li>• approx. 9,000 USD</li> </ul>	

---

## MILITARY SERVICE

<b>Republic of Korea Army Sergeant, Honorably Discharged</b>	Sep 2020 - Mar 2022
<i>Heavy Vehicle and Commander Driver</i>	

---

## SKILLS

<b>Languages:</b>	Python, C/C++, C#(Unity), Verilog
<b>Languages:</b>	Korean (Native), English (Proficient, TOEFL: 105)