

JIYUN JANG

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EDUCATION

Computer Science & Engineering, Korea University

March 2021 - Current

Major GPA : 4.18 / 4.5, GPA: 4.12 / 4.5

SKILLS

Programming Languages Python (advanced), C (advanced), C++ (intermediate)

Tools PyTorch (advanced), TensorFlow (intermediate), Git (intermediate)

Soft Skills Self-motivated, Proactive, Teamwork, Communication, Leadership

INTERESTS

Robotics & Robot Learning

- Robotic Reinforcement Learning
- Imitation Learning
- Vision-Language-Action Model

Machine Learning & Deep Learning

- Robot Foundation Model
- Computer Vision in Autonomous Vehicle and Robot

RESEARCH EXPERIENCE

Vision and AI Lab, Korea University

July 2023 - Current

- Undergraduate Researcher (*Advisor: Prof. Jinkyu Kim*)
- Researching on Vision-Language-Action Model
- Researching on Preference-based RL in humanoid-bench(*RSS 2024*) benchmark
- Researching on Domain Adaptation in 3D Object Detection
- Leader for Domain Adaptation project with HYUNDAI Motor Autonomous Driving team
- Publication:
 - Finetuning Pre-trained Model with Limited Data In 3D Object Detection by Bridging Domain Gaps
 - Author: *Jiyun Jang, Mincheol Chang, and Jinkyu Kim (IROS 2024)*

Robust Intelligence and Robotics Lab, KAIST

July 2024 - August 2024

- Undergraduate Researcher (*Advisor: Prof. Daehyung Park*)
- Researching on Deformable Object Manipulation with Robotic RL

Machine Learning and Vision Lab, Korea University

July 2022 - August 2022

- Undergraduate Researcher (*Advisor: Prof. Hyunwoo J. Kim*)
- Studying on Machine Learning and Graph Neural Network

PROJECTS

Heuristic 3D Human Detection

- Vision and AI Lab Challenge, 3D Human Detection in Yeouido Hangang Park
- *2nd place* by Heuristic Clustering Algorithm (2,000,000 KRW)

Virtual AI Assistant

- Team Leader
- Application for Weather asking, Screen recording, GPT query by Voice Activity Detection
- TTS Finetuning & AI Application Optimization
- *Excellence award* in AIKU Winter Conference 2023

Fake Image Detection

- Team Leader
- Application that can capture an image and quickly determine if it was created by a diffusion model or a GAN model
- Implementation “On The Detection of Synthetic Images Generated by Diffusion Models” (*ICASSP 2023*)

EXTRA-CURRICULAR ACTIVITIES

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| • Korea University Silicon Valley Program | <i>June 2024 - July 2024</i> |
| • Korea University AI club (AIKU) member | <i>January 2023 - December 2023</i> |
| • Student President of Korea University College of Informatics | <i>November 2021 - November 2022</i> |