



Heeyang Jung

ROBOTICS · COMPUTER VISION · DEEP LEARNING

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"Opportunity did not knock until I built a door."

Summary

This is Heeyang Jung, who is enthusiastic about 3D Computer Vision & Robot Vision. Recently, I am interested in visual localization, SfM (Structure of Motion), and deep learning. I want to be an engineer who combines theory and practice. I want to be beneficial to people by exploring how the knowledge I learned can be used in the field or how it can be used.

Research Interests

Computer Vision Robot vision, Structure of Motion
Deep Learning generative model, unsupervised learning
SLAM Visual SLAM, VIO

Education

KwangWoon University

B.S. IN SCHOOL OF ROBOTICS

Seoul, Korea

Mar. 2020 - Feb. 2024 (Expected)

- **Current GPA:** 4.34/4.50, **Current Major GPA:** 4.28/4.50
- **Club:** BARAM Robotics (Robotics Academic Group) [2022 Staff], Mar. 2021 - Present

Work Experience

Ubiquitous Lab @ KwangWoon Univ

UNDERGRADUATE LAB INTERN (ADVISOR: PROF. YONGHOON CHOI)

Seoul, Korea

Jan. 2022 - Jun. 2022

- Solving algorithm problems (BOJ, Programmers)
- Design deep Learning pipeline

Petnow Inc

UNDERGRADUATE R&D DIVISION INTERN (ADVISOR: CTO. DAEHYUN PAK)

Seoul, Korea

Jun. 2022 - Present

- Improve biometric model named DNNet (Dog Nose Network)
- Improve backbone of DNNet
- Apply suitable loss function to DNNet

Skills

Programming Python, C/C++, Matlab
Framework Pytorch, Tensorflow
DevOps Ros, Git
Languages Korean, English

Extracurricular Activity

Neural Radiance Generative Adversarial Network for Photorealistic Space Design

Kwangwoon University

CAPSTONE

Mar. 2023 - Jul. 2023

- Using [instant-NGP] [CycleGAN]
- Extended style transfer from 2D images to 3D objects
- The source code related to this toy project is on my [Github repository] (README.md will be made)

Door Lock System using deep metric learning

Baram robotics

PERSONAL TOY PROJECT

Sep. 2022 - Dec. 2022

- Improving original ResNet (Pytorch) / revising downsampling architecture [Github repository] (README.md will be made)

Reinforcement learning-based robot arm

Baram robotics

PERSONAL TOY PROJECT

Apr. 2022 - Jul. 2022

- Implementing the environment using gym(from openAI)
- Connecting the agent program to the Robot arm in ROS
- The source code related to this toy project is on my [\[Github repository\]](#)

Game learning agent based reinforcement learning

Baram robotics

PERSONAL TOY PROJECT

Sep. 2021 - Oct. 2021

- Implementing the environment required for reinforcement learning
- Apply DQN algorithm to agent
- The source code related to this toy project is on my [\[Github repository\]](#)

First Runner Project

TresC3(Venture Inc),Korea Univ

1ST STUDENT

Oct. 2021 - Feb. 2022

- Studying Autonomous racing(F1tenth)
- Making AEB(automatic emergency braking) code
- Making wall following code

Educational Activities

AI Genius Academy Mentoring

Organized by Micro School, TresC3

TEACHING ASSISTANT

Nov. 2021

- Project Assistant with Arduino and Raspberry Pi
- Support students to experience AI and proceed with the project through a Teachable Machine

Samsung Electronics App Development Mentoring

Organized by Micro School, TresC3

TEACHING ASSISTANT

Jan. 2022

- MIT App Inventor training and Project Assistant