


# KUKJIN KIM

-  Blog
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-  kukjin-kim-rl

## SUMMARY

I'm interested in Deep Reinforcement Learning and Neural Networks. Currently, I'm working on Multi-Environment Reinforcement Learning for the foundation model of the RL agent. My goal is to develop an agent that can control robots and embedded systems. Furthermore, I want to make them versatile for multiple tasks.

## SKILLS

**Development:** Python, C++, Linux, Git, Docker, Yocto, CMake, GCP, AWS

**RL related:** PyTorch, TorchRL, Tensorflow, Jax, Ray, RLLib, Unity, Hydra

## EDUCATION

- 3/2022 - 2/2024 **Korea University** GPA: 4.12/4.3  
M.S., Computer Science  
SUPERVISOR: PROF. CHANGHEE JOO
- 3/2016 - 2/2022 **Kyunghee University** GPA: 3.87/4.3  
B.S., Industrial Management Systems Engineering and Software Convergence (Double Major)

## PUBLICATIONS

- W1 **Agnostic Architecture for Heterogeneous Multi-Environment Reinforcement Learning** NeurIPS 2023  
Foundation Models for Decision Making Workshop  
Kukjin Kim, Changhee Joo. [\[Link\]](#)

## WORK EXPERIENCE

- 2/2024 - Current **LG Electronics, Research Engineer**
  - Developing an AI-based fault-detection algorithm.
- 8/2021 - 02/2022 **MODULABS, Lecturer**
  - Taught basics of deep learning, Python, Pytorch, and Tensorflow.

## RESEARCH EXPERIENCE

- 4/2022 - 12/2023 **DIYA Study Group Leader (Do It Yourself AI)** Academic Club
  - Studied structured state-space sequence model and Jax. [\[Link\]](#)
  - Studied RL papers and multi-task and meta-reinforcement learning course (CS330)
- 6/2022 - 8/2022 **MODULABS**
  - Studied state-of-the-art text-to-speech models. [\[Link\]](#)
- 3/2020 - 2/2021 **Undergraduate Research Student**  
KYUNGHEE UNIVERSITY SMARTFACTORY LAB (PROF. JUMYUNG UM)
  - Researched on reinforcement learning for the robotic gripper.

## PROJECTS

- 3/2023 - 12/2023 **LG Industry-Academia Collaboration Project**  
Developed an anomaly detection model for the refrigerant compression dataset.
- 3/2023 - 12/2023 **ETRI Satellite Simulation Project**  
Developed an interactive web application for satellite frequency sharing analysis.
- 2021 **RL Algorithm, Minecraft RL Agent**  
Implemented A3C Algorithm and Minecraft RL Agent with DQN, ApeX+DQFD [\[Link\]](#)

## TEACHING EXPERIENCE

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2022 Spring  
2023 Fall

### Teaching Assistant

- *Korea University*
- Course: Reinforcement Learning.

2023 Winter

### Teaching Assistant

- *LG Electronics AI Camp*
- Course: Reinforcement Learning.

11/2022

### Invited Talk

- *Korea Atomic Energy Research Institute*
- Introduction to Reinforcement Learning. [\[Link\]](#)

3/2022 - 8/2022

### Lecturer

- *Korea University Computer Club*
- Course: Python, Deep Learning.

## SCHOLARSHIPS

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2023

### LG Industry-Academic Scholarship Student

Received scholarships for one year of graduate school,

2016-2022

### National Scholarship for Excellence in Science and Technology, KOSAF

Received scholarships for all four years of college