

# Hyeonseo Cho

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## Research Interests

I am deeply passionate and broadly interested in Deep Learning, currently focusing on:

- Intelligent Agents that can Continually Learn & Adapt ([publication](#), [project](#))
- Reinforcement Learning for Robotics ([publication](#), [experience1](#), [experience2](#))
- Voice Processing ([project](#))

## Publications

### Slow and Steady Wins the Race: Maintaining Plasticity with Hare and Tortoise Networks

ICML '24

HOJOON LEE, **HYEONSEO CHO**, HYUNSEUNG KIM, DONGHU KIM, DUGKI MIN, JAEGUL CHOO, CLARE LYLE

- To maintain network plasticity, introduce Hare and Tortoise networks, imitating the hippocampus and neocortex of the brain. [\[code\]](#)

### Multiagent Reinforcement Learning Based on Fusion-Multiactor-Attention-Critic for

Energies '22

### Multiple-Unmanned-Aerial-Vehicle Navigation Control

SANGWOO JEON, HOEUN LEE, VISHNU KUMAR KALIAPPAN, TUAN ANH NGUYEN, HYUNGEUN JO, **HYEONSEO CHO**, DUGKI MIN

- Developed multi-agent RL model for energy-efficient UAV cooperative navigation.

## Education

### Konkuk University

Seoul, S.Korea

B.S. IN COMPUTER SCIENCE AND ENGINEERING (GPA: 4.42, RANK: 1/309) [\[TRANSCRIPT\]](#)

Mar. 2020 - Aug. 2024 (expected)

Related Coursework

- |                      |                              |                            |                           |
|----------------------|------------------------------|----------------------------|---------------------------|
| • Linear Algebra     | • Probability and Statistics | • Database                 | • Artificial Intelligence |
| • Calculus           | • Mathematical Statistics    | • Data Science             | • Machine Learning        |
| • Numerical Analysis | • Stochastic Processing      | • Digital Image Processing |                           |

## Experiences

### Robot Vision Lab Korea Institute of Science and Technology

Seoul, S.Korea

AI RESEARCH INTERN

Jan. 2023 - Jun. 2023

- Researched controlling robot manipulators with pixel-based RL.
- Developed simulation environment for Franka Robot using Isaac Sim.

### DMSLAB Konkuk University

Seoul, S.Korea

UNDERGRADUATE INTERN

Oct. 2021 - Dec. 2022

- Researched using RL to control UAVs for delivery and navigate autonomous vehicles in unknown areas.
- Developed a framework for drones at [Konkuk Aerospace Design-Airworthiness Institute](#), incorporating AirSim, PX4, and MAVLink.

## Projects

### Enhancing ASR in Multi-Speaker Settings with Target Speaker Filtering

Mar. 2024 - May. 2024

- Improved ASR accuracy in multi-speaker environments using filtering layers keyed to the target speaker's voice features. [\[pdf\]](#) [\[code\]](#)

### Revisiting the role of Global Average Pooling in Deep Continual Reinforcement Learning

Nov. 2023 - Dec. 2023

- Investigated the positive impact of global average pooling on network adaptability in continual reinforcement learning. [\[pdf\]](#)

## Scholarship & Awards

'22 - Curr. **National Science & Technology Scholarship**, Korea Government Full Scholarship.

Ministry of Science  
& ICT of Korea

'20 - '23 **Dean's List Award**, for Academic Excellence in Konkuk University CSE.

Konkuk University

'21 Spring **70% Scholarship**, for Academic Excellence in Konkuk University CSE.

Konkuk University

## Extracurricular Activities

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### TEACHING ASSISTANT

'23 Fall      **Software Architecture**  
'21 Spring    **Probability and Statistics**

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### LECTURES

**DL**      CS182, EECS 498-007, CS229  
**RL**      David Silver, Seungsang Oh, CS285  
**Math**    18.06, STAT110

## Technical-Skills

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**Proficient**    Python, Pytorch  
**Competent**    git, C/C++, Isaac Sim,  $\LaTeX$ , seaborn, wandb, tqdm, matplotlib, hydra-core  
**Novice**        Jax, Docker, SQL, gazebo, AirSim, ROS, einops

## Languages

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**English**      Sufficient for academic activities: TOEIC score 935 (LC 480, RC 455) (2022.02.22)  
**Korean**        Native