

YEDA SONG

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RESEARCH INTERESTS

My research interest lies in deep reinforcement learning (RL), particularly in devising intelligent agents that can adapt to novel tasks and environments. I believe such a goal can be achieved by learning proper abstractions, utilizing language models, and taking model-based approaches.

PUBLICATIONS

Conferences

- Jaewoo Ahn, **Yeda Song**, Sangdoon Yun and Gunhee Kim. “MPCHAT: Towards Multimodal Persona-Grounded Conversation.” *ACL*, 2023

Ongoing Projects

- **Yeda Song***, Dongwook Lee* and Gunhee Kim. “Compositional Conservatism: A Transductive Approach in Offline Reinforcement Learning.” *Under Review*, 2023

EDUCATION

Seoul National University *Mar. 2022 - Present*

Master's Student in Artificial Intelligence

Vision & Learning Lab (Advisor: Prof. Gunhee Kim)

Seoul National University *Mar. 2017 - Feb. 2022*

B.S. in Statistics

B.S. in Artificial Intelligence

Thesis title: Image Augmentation-based Uncertainty Estimation for a Wildfire Detection Model

GPA: 3.88/4.3 (Overall), 3.90/4.3 (Major)

Hong Kong University of Science and Technology *Fall 2019*

Exchange Student

Seoul Science High School *Mar. 2014 - Feb. 2017*

EXPERIENCE

Anomaly Analysis Lab, Alchera Inc. *Jun. 2021 - Aug. 2021*

Machine Learning Researcher

Designed an uncertainty measure based on the robustness over image augmentation for a wildfire detection model, which powers real-time detection systems for multiple customers including Sonoma County, California

Multiscale Methods in Statistics Lab, Seoul National University *Mar. 2021 - Jun. 2021*

Research Intern

Studied potential directions for expanding the definition of the geometric median on Riemannian manifolds

Bioinformatics and Biostatistics Lab, Seoul National University *Jan. 2020 - Jun. 2020*

Research Intern

Compared and evaluated batch correction methods for a metabolomics data

HONORS AND AWARDS

AI Fellowship

Mar. 2022 - Feb. 2024

- Funded by the Graduate School of Artificial Intelligence at Seoul National University
- Full tuition for four consecutive semesters

Presidential Science Scholarship

Mar. 2017 - Feb. 2021

- Funded by Korea Student Aid Foundation
- Full tuition and living expenses during undergraduate years

Excellence Scholarship for Freshmen (Dept. of Statistics)

Spring 2017

- Funded by Seoul National University
- Scholarship for the top 10% of Freshmen

Hanseong Nobel Scholarship (Sector: Mathematics)

Mar. 2015 - Feb. 2017

- Funded by Hanseong Sonjaehan Scholarship Foundation
- Scholarship for high school students that are prospective in mathematics and science

TEACHING ASSISTANCE AT SEOUL NATIONAL UNIVERSITY

Theory and Lab of IoT, AI, and Big Data (M2177.004900) TA

Fall 2023

Computer Vision (M1522.001000) TA

Fall 2022

Concepts and Applications in Probability (326.211 001) Peer Tutor

Spring 2021

EXTRA-CURRICULAR ACTIVITIES

Neuromatch Academy 2022

Summer 2022

- Completed a three-week Computational Neuroscience summer program at Neuromatch Academy