Sangwoo Shin

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EDUCATION

| Mar. 2015~ | Sungkyunkwan University | Suwon, South Korea |
| Mar. 2022 | B.S in Mathematics *(Summa Cum Laude, GPA: 3.83 / 4.00)* | |

Mar. 2022 ~	Sungkyunkwan University	Suwon, South Korea
Feb. 2024	M.S in Computer Science and Engineering	
	Advisor: Honguk Woo	

PUBLICATIONS

<u>I changed my name from Sangwoo Cho to Sangwoo Shin.</u>

*: Equal Contribution

1. LLM-Based Offline Learning for Embodied Agents via Consistency-Guided Reward Ensemble

   Yujeong Lee*, **Sangwoo Shin***, Wei-Jin Park, Honguk Woo

   Empirical Methods in Natural Language Processing (EMNLP) Findings, 2024

2. Semantic Skill Grounding for Embodied Instruction-Following in Cross-Domain Environments

   Sangwoo Shin*, SeungHyun Kim*, Youngsoo Jang, Moontae Lee, Honguk Woo

   Association for Computational Linguistics (ACL) Findings, 2024

3. SemTra: A Semantic Skill Translator for Cross-domain Zero-shot Policy Adaptation

   Sangwoo Shin, Minjong Yoo, Jeongwoo Lee, Honguk Woo

   AAAI Conference on Artificial Intelligence (AAAI), 2024

4. One-shot Imitation in a Non-Stationary Environment via Multi-Modal Skill

   Sangwoo Shin, Daehee Lee, Minjong Yoo, Woo Kyung Kim, Honguk Woo

   International Conference on Machine Learning (ICML), 2023

5. Skills Regularized Task Decomposition for Multi-task Offline Reinforcement Learning

   Minjong Yoo, **Sangwoo Cho**, Honguk Woo

   Neural Information Processing Systems (NeurIPS), 2022 <u>(Oral Presentation)</u>

6. An Efficient Combinatorial Optimization Model Using Learning-to-Rank Distillation

   Hyunsung Lee*, **Sangwoo Cho***, Honguk Woo

   AAAI Conference on Artificial Intelligence (AAAI), 2022 <u>(Oral Presentation)</u>

7. Differentiable Ranking Metric Using Relaxed Sorting for Top-K Recommendation

   Hyunsung Lee, **Sangwoo Cho**, Yeongjae Jang, Jaekwang Kim, Honguk Woo

   IEEE Access, 2021

8. A Global DAG Task Scheduler Using Deep Reinforcement Learning and Graph Convolution Network

   Hyunsung Lee, **Sangwoo Cho**, Yeongjae Jang, Jinkyu Lee , Honguk Woo

   IEEE Access, 2021

WORK EXPERIENCES

1. LG AI Research Intern
   Advisor: Moontae Lee, Youngsoo Jang   Oct. 2023 ~ Jan. 2024
   - Controllable LLMs with Multi-Objective RLHF

RESEARCH EXPERIENCES

1. Undergraduate Research Students   Aug. 2020 ~ Dec.2020
   Understanding of Algebraic Geometry | Advisor: Sukmoon Huh
   Topics: Zariski topology, Tensor, Riemann mapping theorem, etc.
2. Undergraduate Research Students
   Partial Differential Equations and Artificial Intelligence | Advisor: Seok-Bae Yun   Dec.2020 ~ Mar.2021
   Topics: Cybenko's universal approximation theorem, etc.

AWARDS

1. First Prize, Outstanding Research Award, Sungkyunkwan University   2023 Fall
2. First Prize, Outstanding Research Award, Sungkyunkwan University   2024 Spring

TEACHING

3. Tutoring (Linear Algebra)   Jan. 2020 ~ Jun. 2020
   Topics: Module theory, Jordan canonical form, Diagonalization, Duality, Similarity of operators, etc
4. Tutoring (Algebraic Topology)   Jan. 2021 ~ Jun. 2021
   Topics: Fundamental group, Homotopy, Homology, etc

ACADEMIC SERVICES

2025   ICLR Reviewer

SCHOLARSHIPS

2024   BK Scholarship

2022 ~ 2023   Full-Funded Scholarship

2021   Han-Gill Scholarship

2019   National Academic Excellence Scholarship

LEADERSHIP EXPERIENCE

2016~2018   Military Service at Demilitarized Zone General Outpost, Republic of Korea Army