

Sangwoo Shin

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EDUCATION

03/2015~ 08/2022	Sungkyunkwan University B.S in Mathematics (<i>Summa Cum Laude</i>) Selected courses: Probability Theory(A+), Advanced Linear Algebra(A+), Real analysis(A+), Algebraic Topology(A+), Differential Geometry(A+)	Suwon, South Korea
08/2022 ~ 08/2024	Sungkyunkwan University M.S in Computer Science and Engineering Advisor: Honguk Woo	Suwon, South Korea

PUBLICATIONS

I changed my name from Sangwoo Cho to Sangwoo Shin.

*: Equal Contribution

1. 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
2. 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
3. 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
4. Skills Regularized Task Decomposition for Multi-task Offline Reinforcement Learning
Minjong Yoo, **Sangwoo Cho**, Honguk Woo
Neural Information Processing Systems (NeurIPS), 2022 (*Oral Presentation*)
5. An Efficient Combinatorial Optimization Model Using Learning-to-Rank Distillation
Hyunsung Lee*, **Sangwoo Cho***, Honguk Woo
AAAI Conference on Artificial Intelligence (AAAI), 2022 (*Oral Presentation*)
6. Differentiable Ranking Metric Using Relaxed Sorting for Top-K Recommendation
Hyunsung Lee, **Sangwoo Cho**, Yeongjae Jang, Jaekwang Kim, Honguk Woo
IEEE Access, 2021
7. 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
Advisor: Moontae Lee
Oct. 2023 ~ Current
 - Controllable LLMs with Multi-Objective RLHF

RESEARCH EXPERIENCES

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

TEACHING

1. Private Tutoring
Linear Algebra (Textbook: Linear Algebra Done Right – Sheldon Axler)
Topics: Nil-potent, Jordan canonical form, Diagonalization, Similarity of linear operators, etc.
Jan. 2020 ~ June. 2020

SCHOLARSHIPS

2022 ~ 2023	Full-Funded Scholarship
2021	Han-Gill Scholarship
2019 Fall	National Academic Excellence Scholarship