Sangwoo Shin

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EDUCATION

03/2015~ 08/2022	**Sungkyunkwan University** B.S in Mathematics Selected courses: Probability Theory(A+), Advanced Linear Algebra(A+), Real analysis(A+), Algebraic Topology(A+), Differential Geometry(A+) | GPA: 3.61 / 4.0	Suwon, South Korea
08/2022 ~ present	**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. SemTra: A Semantic Skill Translator for Cross-domain Zero-shot Policy Adaptation *(to appear)*

   Sangwoo Shin, Minjong Yoo, Jeongwoo Lee, Honguk Woo

   AAAI Conference on Artificial Intelligence (AAAI), 2024

2. 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

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

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

   Neural Information Processing Systems (NeurIPS), 2022 (Oral Presentation)

4. 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)

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

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

   IEEE Access, 2021

6. 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   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.

TEACHING

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

SCHOLARSHIPS

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