Jiwoo Shin

Contact: `natu33@kaist.ac.kr`   Personal Website: **jiwooshin-kr.github.io**

Education

Korea Advanced Institute of Science and Technology, Daejeon, South Korea   03/2019 – Present
B.S. in Industrial and Systems Engineering & Computer Science (Double Major)
- GPA: 3.85/4.3, **Major GPA: 4.02/4.3**
- 2 years leave of absence for mandatory military service (10/2022 - 07/2024)

University of Portland (UP), Portland, OR   08/2025 – 12/2025
- Exchange Student, Department of Computer Science

Chungnam Science High School, Gongju, South Korea   03/2017 – 02/2019
- Early Graduation

Research Experience

University of Chicago, Remote   10/2025 - Present
- Advisor: Prof. Jooyoung Sohn
- Research Topics: Improving Treatment Planning and Delivery in HDR-IORT

KAIST AAILab, Daejeon, South Korea   03/2025 - 07/2025
- Advisor: Prof. Il-Chul Moon
- Research Topics: Training-Free Safe Image Generation in Text-to-Image Diffusion Models
- Collaboration with **NAVER Corp.**

KAIST AAILab, Daejeon, South Korea   09/2024 - 12/2024
- Advisor: Prof. Il-Chul Moon
- Research Topics: Retrieval-Augmented Generation (RAG)

KAIST AAILab, Daejeon, South Korea   03/2022 - 08/2022
- Advisor: Prof. Il-Chul Moon, Ph.D. Mingi Ji
- Research Topics: Knowledge Distillation, Class Imbalance

KAIST AAILab, Daejeon, South Korea   12/2021 - 02/2022
- Advisor: Prof. Il-Chul Moon
- Research Topics: Probabilistic Deep Generative Model, NLP

KAIST Financial Engineering Lab, Daejeon, South Korea   06/2021 - 08/2021
- Advisor: Prof. Woo Chang Kim
- Research Topics: High Frequency Trading, Reinforcement Learning

Publications

[2] **Prompt-Based Safety Guidance Is Ineffective for Unlearned Text-to-Image Diffusion Models**
Jiwoo Shin, Byeonghu Na, Mina Kang, Wonhyeok Choi, Il-chul Moon
NeurIPS 2025 Workshop on Generative and Protective AI for Content Creation.

[1] **Training-Free Safe Text Embedding Guidance for Text-to-Image Diffusion Models**
Byeonghu Na, Mina Kang, Jiseok Kwak, Minsang Park, **Jiwoo Shin**, SeJoon Jun, Gayoung Lee, Jin-Hwa Kim,
Il-Chul Moon
*Neural Information Processing Systems **(NeurIPS), 2025.***

Industry Experience

Spiercore Inc., Daejeon, South Korea   12/2024 - 02/2025
- AI Research Engineer Intern
- Task: Predicting ADMET properties of molecules through GNN models pretrained in a multimodal setting with molecular text information

Awards

Next-Generation Engineer, IPESK   Sep 2025

Dean's List (Top 3%), KAIST ISE   Fall 2024

Honor Graduate (Rank #3 among over 1,500 trainees),   Dec 2022
ROK Air Force Basic Military Training (Class 842)

KAIST IE Frontier Encouragement Award   Nov 2022

Dean's List (Top 3%), KAIST ISE   Fall 2020

Scholarships

Korea–U.S. Advanced Technology Youth Exchange Program (9,000 USD),   Fall 2025
Minister of Trade, Industry and Energy

Department Honors Scholarship (Rank #2), KAIST ISE   Spring 2022

Department Honors Scholarship (Rank #1), KAIST ISE   Fall 2020

Activities

KAIST Buddy Program, International Exchange Student Assistant   Fall 2024

Student Council, KAIST ISE   2020 - 2021
- Vice President (2021)
- Vice Representative (2020)