Jiwoo Shin

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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
- GPA: 4.0/4.0 (Dean's List)

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

Research Experience

University of Chicago, Remote　　10/2025 - 12/2025
- 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

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

Publications

[3] **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.

[2] **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**.*

[1] **Nodes-in-Cluster Significance Score(NCSS): Keyword Extraction with Redefined TW-IDF using Stock News Text Data**
Junhyeok Jung*, Kwanghyeon Lee*, **Jiwoo Shin***, Jieun Han*
Korea Computer Congress (KCC 2022, poster)

Awards

Next-Generation Engineer (Grand Prize), IPESK	Sep 2025
Dean's List (Top 3%), KAIST ISE	Fall 2024
Honor Graduate (Rank #3), ROK Air Force Basic Military Training (Class 842)	Dec 2022
IE Frontier Encouragement Award, KAIST ISE	Nov 2022
Dean's List (Top 3%), KAIST ISE	Fall 2020

Scholarships

Korea–U.S. Advanced Technology Youth Exchange Program (9,000 USD), Minister of Trade, Industry and Energy	Fall 2025
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
- Vice President — 2021
- Vice Representative — 2020