

Jiwoo Shin

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Education

Korea Advanced Institute of Science and Technology , Daejeon, South Korea B.S. in Industrial and Systems Engineering & Computer Science (Double Major)	03/2019 – Present
<ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• Exchange Student, Department of Computer Science	08/2025 – 12/2025

Research Experience

University of Chicago , Remote <ul style="list-style-type: none">• Advisor: Prof. Jooyoung Sohn• Research Topics: Improving Treatment Planning and Delivery in HDR-IORT	10/2025 - Present
KAIST AAILab , Daejeon, South Korea <ul style="list-style-type: none">• Advisor: Prof. Il-Chul Moon• Research Topics: Training-Free Safe Image Generation in Text-to-Image Diffusion Models• Collaboration with NAVER Corp.	03/2025 - 07/2025
KAIST AAILab , Daejeon, South Korea <ul style="list-style-type: none">• Advisor: Prof. Il-Chul Moon• Research Topics: Retrieval-Augmented Generation (RAG)	09/2024 - 12/2024
KAIST AAILab , Daejeon, South Korea <ul style="list-style-type: none">• Advisor: Prof. Il-Chul Moon, Ph.D. Mingi Ji• Research Topics: Knowledge Distillation, Class Imbalance	03/2022 - 08/2022
KAIST AAILab , Daejeon, South Korea <ul style="list-style-type: none">• Advisor: Prof. Il-Chul Moon• Research Topics: Probabilistic Deep Generative Model, NLP	12/2021 - 02/2022
KAIST Financial Engineering Lab , Daejeon, South Korea <ul style="list-style-type: none">• Advisor: Prof. Woo Chang Kim• Research Topics: High Frequency Trading, Reinforcement Learning	06/2021 - 08/2021

Industry Experience

Spiercore Inc. , Daejeon, South Korea <ul style="list-style-type: none">• AI Research Engineer Intern• Task: Predicting ADMET properties of molecules through GNN models pretrained in a multimodal setting with molecular text information	12/2024 - 02/2025
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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, IPESK	Sep 2025
Dean's List (Top 3%), KAIST ISE	Fall 2024
Honor Graduate (Rank #3 among over 1,500 trainees), ROK Air Force Basic Military Training (Class 842)	Dec 2022
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), 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	2020 - 2021
• Vice President (2021)	
• Vice Representative (2020)	