

# SEOJIN KIM

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## RESEARCH INTEREST

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My main research goal is to efficiently adapt large language models for domain-specific applications, e.g., drug discovery(ICML'24, NeurIPSW'24), accelerated inference(ICMLW'25), and visual image generation([P1]).

- **Domain-Specific Large Language Models**

ICML'24, NeurIPSW'24, ICMLW'25, [P1]

- **AI for drug discovery**

TMLR'24, ICML'24, NeurIPSW'24

- **Robust AI system**

AAAI'23, TMLR'24

## EDUCATION

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**Seoul National University**, J.D. in School of Law

Mar. 2025 - Present

**KAIST**, M.S. in Artificial Intelligence (completed Ph.D. coursework without completing a dissertation) - Advisor: Prof. Jinwoo Shin

Sep. 2021 - Feb. 2025

**KAIST**, B.S. in Chemistry (major) & Mathematics (double major) & Computer Science (double major) - Ranked 1st Overall in the Chemistry Department, Summa Cum Laude (GPA: 4.08/4.3)

Mar. 2016 - Aug. 2021

## PUBLICATIONS

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C: conference, J: journal, W: workshop, P: preprint / \* equal contribution

[P1] FontAdapter: Instant Font Adaptation in Visual Text Generation

Myungkyu Koo, Subin Kim, Sangkyung Kwak, Jaehyun Nam, Seojin Kim, Jinwoo Shin  
Preprint, 2025

[C2] Data-Efficient Molecular Generation with Hierarchical Textual Inversion

Seojin Kim, Jaehyun Nam, Sihyun Yu, Jinwoo Shin  
International Conference on Machine Learning (ICML), 2024

[C1] Confidence-aware Training of Smoothed Classifiers for Certified Robustness

Jongheon Jeong\*, Seojin Kim\*, Jinwoo Shin  
AAAI Conference on Artificial Intelligence (AAAI), 2023 - oral presentation

[J2] Confidence-aware Denoised Fine-tuning of Off-the-shelf Models for Certified Robustness

Suhyeok Jang\*, Seojin Kim\*, Jinwoo Shin, Jongheon Jeong  
Transactions on Machine Learning Research (TMLR), 2024

[J1] Holistic Molecular Representation Learning via Multi-view Fragmentation

Seojin Kim\*, Jaehyun Nam\*, Junsu Kim, Hankook Lee, Sungsoo Ahn, Jinwoo Shin  
Transactions on Machine Learning Research (TMLR), 2024

[W2] Mamba Drafters for Speculative Decoding

Daewon Choi, Seunghyuk Oh, Saket Dingliwal, Jihoon Tack, Kyuyoung Kim, Woomin Song, Seojin Kim, Insu Han, Jinwoo Shin, Aram Galstyan, Shubham Katiyar, Sravan Babu Bodapati  
ICML Workshop on Efficient Systems for Foundation Models (ICML ES-FoMo), 2025

[W1] An Efficient Tokenization for Molecular Language Models

Seojin Kim, Jaehyun Nam, Jinwoo Shin  
NeurIPS Workshop for New Drug Modalities (NeurIPS AIDrugX), 2024

## HONORS & AWARDS

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Dean's List in the School of Freshman, Fall 2016

Dean's List in the Department of Chemistry, Spring 2017 and Fall 2017

KAIST Presidential Fellowship (KPF), 2018

Dean's List in the College of Natural Science, 2019  
ICML Google Travel Grant (\$1,500), 2024

## EXPERIENCES

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**Internship:** Institute for Basic Science (IBS), 2017

**Internship:** SK Hynix HARC Etch Team, 2019

**Visiting student:** Technische Universität München (Technical University of Munich), 2019

**Research project:** "Neural Differential Equation for Stock Data Prediction" (advisor: Prof. Jinwoo Shin), 2021

**Invited talk:** "AI-based Molecular Representation Learning & Generation" in POSTECH, 2023

**Domestic patent:** "Training Method and Apparatus for Adversarial Robustness of Neural Network Model", 2024

**Conference reviewer:** ICML (2023, 2024, 2025), NeurIPS (2023, 2024), ICLR (2024, 2025), AISTATS (2023)

**Journal reviewer:** TMLR (2024)