

Dongki Kim

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RESEARCH INTERESTS	My research primarily focuses on deep learning models to enhance our understanding of molecules and aid in molecular design. I have been working on diffusion models and representation learning for graph structures, particularly with applications to biomolecules.	
EDUCATION	KAIST	Deajeon, South Korea
	Ph.D. in Artificial Intelligence M.S. in Artificial Intelligence • Advisor: Prof. Sung Ju Hwang	Sep. 2023 – Present Sep. 2021 – Aug. 2023
	Seoul National University (SNU)	Seoul, South Korea
	B.S. in Compute Science and Engineering B.S. in Applied Life Chemistry	Mar. 2014 – Feb. 2021 Mar. 2014 – Feb. 2021
PUBLICATION	Graph Generation with Diffusion Mixture Jaeheyong Jo*, Dongki Kim *, Sung Ju Hwang International Conference on Machine Learning (ICML), 2024 Machine Learning for Drug Discovery Workshop at ICLR (MLDD @ ICLR), 2023 (Spotlight)	
	Protein Representation Learning by Capturing Protein Sequence-Structure-Function Relationship Eunji Ko*, Seul Lee*, Minseon Kim*, Dongki Kim , Sung Ju Hwang Machine Learning for Genomics Explorations Workshop at ICLR (MLGenX @ ICLR), 2024 (Spotlight)	
	Antibody-SGM: Antigen-Specific Joint Design of Antibody Sequence and Structure using Diffusion Models Xuezhi Xie, Jin Sub Lee, Dongki Kim , Jaehyeong Jo, Jisun Kim, Philip M. Kim Computational Biology Workshop at ICML (CompBio @ ICML), 2023	
	Graph Self-supervised Learning with Accurate Discrepancy Learning Dongki Kim *, Jinheon Baek*, Sung Ju Hwang Conference on Neural Information Processing Systems (NeurIPS), 2022	
	Edge Representation Learning with Hypergraphs Jaehyeong Jo*, Jinheon Baek*, Seul Lee*, Dongki Kim , Minki Kang, Sung Ju Hwang Conference on Neural Information Processing Systems (NeurIPS), 2021	
	* denotes equal contribution	
RESEACRH EXPERIENCE	MLAI Lab, KAIST	Mar. 2021 – Present
	Research Assistant (Advisor: Prof. Sung Ju Hwang) • Conducting research on graph-structured data for representation learning and generation with the application to the molecular and general graphs.	
	Kim Lab, University of Toronto	Feb. 2023 – Feb. 2023
	Visiting Student (Host: Prof. Philip M. Kim) • Conducting research on protein generation using diffusion models.	
TALK	Generation of Graph-Structured Data with Diffusion Models at University of Toronto	Feb. 2023
	Graph Self-supervised Learning with Accurate Discrepancy Learning at KAIST	Nov. 2022

**ACADEMIC
SERVICE**

Conference Reviewer

- International Conference on Learning Representations (**ICLR**), 2025
- Conference on Neural Information Processing Systems (**NeurIPS**), 2024
- International Conference on Machine Learning (**ICML**), 2024
- International Conference on Learning Representations (**ICLR**), 2024
- Conference on Neural Information Processing Systems (**NeurIPS**), 2023
- International Conference on Machine Learning (**ICML**), 2023
- Conference on Neural Information Processing Systems (**NeurIPS**), 2022
- International Conference on Machine Learning (**ICML**), 2022

REFERENCE

- [Prof. Sung Ju Hwang](#), Endowed Chair Professor, KAIST
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