

Dongki Kim

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SUMMARY	I am a third-year PhD student advised by Sung Ju Hwang. I have been working on the intersections of AI and life science, bridging their gap by modeling biomolecules and their complex system via representation learning, generative models, and LLMs.	
EDUCATION	KAIST Ph.D. in Artificial Intelligence M.S. in Artificial Intelligence • Advisor: Prof. Sung Ju Hwang	Deajeon, South Korea <i>Sep. 2023 – Present</i> <i>Sep. 2021 – Aug. 2023</i>
	Seoul National University (SNU) B.S. in Compute Science and Engineering B.S. in Applied Biology and Chemistry	Seoul, South Korea <i>Mar. 2014 – Feb. 2021</i> <i>Mar. 2014 – Feb. 2021</i>
PUBLICATION	Mol-LLaMA: Towards General Understanding of Molecules in Large Molecular Language Model Dongki Kim , Wonbin Lee, Sung Ju Hwang Conference on Neural Information Processing Systems (NeurIPS), 2025 AI for Science Workshop at NeurIPS (AI4Science @ NeurIPS), 2025 Graph Generation with Diffusion Mixture Jaehyeong Jo*, Dongki Kim *, Sung Ju Hwang International Conference on Machine Learning (ICML), 2024 ML 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 ML 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 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 Visiting Student (Host: Prof. Philip M. Kim) • Conducting research on protein generation using diffusion models.	<i>Mar. 2021 – Present</i> <i>Feb. 2023 – Feb. 2023</i>

TALK	Towards General Understanding of Molecules in Large Molecular Language Model at KAIST	May. 2025
	Explainable PK/Tox Prediction: Molecular-Protein-Language Tri-modality Foundation Model at Korea Machine Learning Ledger Orchestration for Drug Discovery	March. 2025
	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	
	• Conference on Neural Information Processing Systems (NeurIPS), 2025	
	• International Conference on Machine Learning (ICML), 2025	
	• Transactions on Machine Learning Research (PMLR), 2025	
	• International Conference on Learning Representations (ICLR), 2025	
	• Generative and Experimental Perspectives for Biomolecular Design Workshop at ICLR (GEM @ ICLR), 2025	
	• Conference on Neural Information Processing Systems (NeurIPS), 2024	
	• International Conference on Machine Learning (ICML), 2024	
	• International Conference on Learning Representations (ICLR), 2024	
	• Generative and Experimental Perspectives for Biomolecular Design Workshop at ICLR (GEM @ 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 E-mail: sungju.hwang@kaist.ac.kr	