

Dongki Kim

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RESEARCH INTERESTS

My research interest is mainly on developing deep learning models for understanding graph-structured data and generating graph topology and geometry. I have been working on representation learning and generative model for graph with the application in the molecular graph.

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 Life Chemistry	Seoul, South Korea <i>Mar. 2014 – Feb. 2021</i> <i>Mar. 2014 – Feb. 2021</i>

PUBLICATION

Graph Generation with Destination-Predicting Diffusion Mixture
Jaehyeong Jo*, [Dongki Kim](#)*, Sung Ju Hwang
Preprint, arXiv:2302.03596

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.	<i>Mar. 2021 – Present</i>
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Kim Lab, University of Toronto Visiting Student (Host: Prof. Philip M. Kim) • Conducting research on protein generation using diffusion models.	<i>Feb. 2023 – Feb. 2023</i>
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TALK

Generation of Graph-Structured Data with Diffusion Models at University of Toronto	<i>Feb. 2023</i>
Graph Self-supervised Learning with Accurate Discrepancy Learning at KAIST	<i>Nov. 2022</i>

ACADEMIC SERVICE

Conference Reviewer

- 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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