

YUNHUI JANG

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RESEARCH INTEREST

My research goal is to build generative models for structured data. Specifically, I focus on graph generative models, molecular generative models, AI4Science, etc. My previous research focused on

- AI4Science: C1, C2, C3, C4, W1, P1
- Generative models for structural data: C1, C2, C4, W1, P1
- Large language models for science: W1, P1

WORK EXPERIENCE

PuzzleData, Intern, Process mining & data analysis projects, Seoul, South Korea / May 2020 - Aug 2020
Netmarble, Research intern, RNN-based anomaly detection, Seoul, South Korea / Jul 2018 - Aug 2018
JoyCity, Intern, Data analysis on marketing KPIs, Seoul, South Korea / Jun 2017 - Aug 2017

EDUCATION

POSTECH, M.S./Ph.D. in AI Graduate School (advisor: Prof. Sungsoo Ahn) Sep 2022 - present
RWTH, Exchange student in Computer Science Mar 2019 - Feb 2020
POSTECH, B.S. in Industrial & Management Engineering - cum laude Mar 2015 - Aug 2020

PUBLICATIONS

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

- [P1] Can LLMs Generate Diverse Molecules? Towards Alignment with Structural Diversity
Hyosoon Jang, [Yunhui Jang](#), Jaehyung Kim, Sungsoo Ahn
Under review, 2024
- [W1] Chain-of-thoughts for molecular understanding
[Yunhui Jang](#), Jaehyung Kim, Sungsoo Ahn
NeurIPS AIDrugX Workshop, 2024
- [C4] Pessimistic Backward Policy for GFlowNets
Hyosoon Jang, [Yunhui Jang](#), Minsu Kim, Jinkyoo Park, Sungsoo Ahn
Conference on Neural Information Processing Systems (NeurIPS), 2024
- [C3] Hybrid neural representations for spherical data
Hyomin Kim, [Yunhui Jang](#), Jaeho Lee, Sungsoo Ahn
International Conference on Machine Learning (ICML), 2024
- [C2] A simple and scalable representation for graph generation
[Yunhui Jang](#), Seul Lee, Sungsoo Ahn
International Conference on Learning Representations (ICLR), 2024
NeurIPS GLFrontiers Workshop, 2023
- [C1] Graph generation with K^2 -trees
[Yunhui Jang](#), Dongwoo Kim, Sungsoo Ahn
International Conference on Learning Representations (ICLR), 2024
ICML Structured Probabilistic Inference & Generative Modeling Workshop, 2023

TEACHING

Teaching Assistant, POSTECH, CS210: Introduction to AI Sep 2023 - Dec 2023
Teaching Assistant, LAIDD, Introduction to Geometric deep learning Oct 2023 - Nov 2023
Teaching Assistant, POSTECH, CS210B: Introduction to machine learning Sep 2022 - Dec 2022
Teaching Assistant, Hyundai Steel, AI expert course Oct 2022 - Nov 2022

HONORS & AWARDS

Finalist in Qualcomm Innovation Fellowship Korea , Qualcomm	2024
Presidential Science Scholarship , South Korea, (\$70,000)	2024-present
Travel Award , ICLR (\$1,500)	2024
Bronze Prize in 30th Samsung Humantech Paper Awards , Samsung, (\$4,000)	2023
POSTECHIAN Fellowship , POSTECH, (\$3,000)	2022, 2023
RWTH Aachen University Exchange Scholarship , RWTH Aachen, (\$3,900)	2019
Realize Your Dream Scholarship , Blizzard Entertainment, (\$2,500)	2018
Presidential Science Scholarship , South Korea, (\$16,000)	2015-2020

SERVICES

Conference Reviewer: NeurIPS 2023-2024, ICLR 2024-2025, ICML 2024, AAAI 2025