

# YUNHUI JANG

[uni5510@postech.ac.kr](mailto:uni5510@postech.ac.kr)  $\diamond$  [yunhuijang.github.io](https://yunhuijang.github.io)  $\diamond$  [process-mining.tistory.com](https://process-mining.tistory.com) (in Korean)

## 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

---

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

## EDUCATION

---

<b>POSTECH</b> , M.S./Ph.D. in AI Graduate School (advisor: Prof. Sungsoo Ahn)	Sep 2022 - present
<b>RWTH</b> , Exchange student in Computer Science	Mar 2019 - Feb 2020
<b>POSTECH</b> , 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

[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*  
[Bronze Prize in 30th Samsung Humantech Paper Awards](#)  
[Winner in 2024 Qualcomm Innovation Fellowship Korea](#)

TEACHING

Teaching Assistant, POSTECH, CSED105: Introduction to AI	Sep 2023 - Dec 2023
Teaching Assistant, LAIDD, Introduction to Geometric deep learning	Oct 2023 - Nov 2023
Teaching Assistant, POSTECH, CSED490B: Introduction to machine learning	Sep 2022 - Dec 2022
Teaching Assistant, Hyundai Steel, AI expert course	Oct 2022 - Nov 2022

HONORS & AWARDS

Winner in Qualcomm Innovation Fellowship Korea, Qualcomm (\$3,000)	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