

# Curriculum Vitae

## Jueon Park Ph.D. Candidate

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## EDUCATION

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2023 ~ Present      **M.S / Ph.D.** Department of Computer Science and Engineering  
Korea University, Seoul, Korea

2016 ~ 2022      **B.S.** Department of Biotechnology  
Yonsei University, Seoul, Korea

## RESEARCH INTERESTS

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- AI-Driven Drug Discovery
- Computational toxicology
- Toxicity Prediction via LLM
- Molecule Representation
- Molecule Generation

## RESEARCH EXPERIENCES

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- Researcher at SKpucore, Korea (Sep. 2023 ~ Sep. 2025) / SMARTUS AI System Maintenance - Prediction for Material Properties
- Research Student at Big data scientist training team (host: Prof. Jaewoo Kang), Industry-Academia Collaboration Foundation, Korea Univ., Korea (Sep. 2022 ~ Feb. 2023) / Conducted data analysis and machine learning for drug discovery

## AWARDS AND HONORS

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- 2025 KU Junior Fellow-Research Grant [2025 ~2026]
- 3 Excellence Award in CURE-Bench Challenge(NeurIPS 2025) [Dec. 2025]
- 1st place in BioASQ 13B Challenge(CLEF 2025) [Sep. 2025]

## PUBLICATIONS

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(\*; first author, †; corresponding author)

- 2026 **Park, J.\***, Jang, W., Kim, C., Park, Y., & Kang, J.† (2026). ToxReason: A Benchmark for Mechanistic Chemical Toxicity Reasoning via Adverse Outcome Pathway. *ACL 2026 Findings*
- 2026 Kim, H.\*, Lee, E., Chung, S., **Park, J.**, Baek, S., & Kang, J.† (2026). ATTNSOM: Learning Cross-Isoform Attention for Cytochrome P450 Site-of-Metabolism. *ISMB 2026*
- 2025 **Park, J.\***, Park, Y., Song, M., Park, S., Lee, D., Baek, S., & Kang, J.† (2025, December). CoTox: Chain-of-Thought-Based Molecular Toxicity Reasoning and Prediction. In *2025 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)* (pp. 4002-4007). IEEE.
- 2025 Baek, S.\*, Park, S.\*, Chok, Y. T., Lee, J., **Park, J.**, Gim, M.†, & Kang, J.† (2025, April). Cradle-VAE: enhancing single-cell gene perturbation modeling with counterfactual reasoning-based artifact disentanglement. In *Proceedings of the AAAI Conference on Artificial Intelligence* (Vol. 39, No. 15, pp. 15445-15452).
- 2024 Gim, M.\*, **Park, J.\***, Park, S., Lee, S., Baek, S., Lee, J., ... & Kang, J.† (2024). MolPLA: a molecular pretraining framework for learning cores, R-groups and their linker joints. *Bioinformatics*, 40(Supplement\_1), i369-i380.
- 2023 Gim, M.\*, Choe, J., Baek, S., **Park, J.**, Lee, C., Ju, M., ... & Kang, J.† (2023). ArkDTA: attention regularization guided by non-covalent interactions for explainable drug target binding affinity prediction. *Bioinformatics*, 39(Supplement\_1), i448-i457.

## CERTIFICATE

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- 2025 Toxicology Specialized Training Program - Organized by the Korean Society of Toxicology (KSOT) and the Korean Environmental Mutagen Society (KEMS), South Korea Completed on August 22, 2025
- SKT FLY AI Challenger 1st Cohort, June-September, 2022, Team Leader (Passionate Group 2), Excellence Award Winner

## PATENTS

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1. Mogan Gim, Junseok Choe, Seungheun Baek, **Jueon Park**, Chaeun Lee, Minjae Ju, Sumin Lee, Jaewoo Kang, "METHOD AND APPARATUS FOR BINDING AFFINITY PREDICTION BASED ON NON-COVALENT INTERACTION", KR-Registration No. 10-2617957-0000