Curriculam Vitae
Minsu Park

Personal Information

Nationality: Republic of Korea

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Education

Mar, 2020 - Present	Ph.D. Student in Electrical Engineering and Computer Science Gwangju Institute of Science and Technology Supervisor: Prof. Hojung Nam
Mar, 2015 - Feb, 2019	B.S. in Chemistry Gwangju Institute of Science and Technology

Research Areas

✓ Bioinformatics
(Multi-omics-based AI-related fields, Big data analysis)

✓ Computational Methods for Accelerating Drug Discovery
(ADMET property prediction)

✓ Machine Learning and Deep Learning
(Statistical approaches, Graph neural networks, Transfer learning, Multi-task learning, etc.)

Publications (Peer Reviewed)

* Corresponding author(s)

Hyunho Kim, Minsu Park, Ingoo Lee, Hojung Nam*. "BayeshERG: a robust, reliable and interpretable deep learning model for predicting hERG channel blockers." *Briefings in Bioinformatics* 23.4 (2022): bbac211.

- 한빛사

Hyunho Kim, Eunyoung Kim, Ingoo Lee, Bongsung Bae, Minsu Park, Hojung Nam*, "Artificial Intelligence in Drug Discovery: A Comprehensive Review of Data-Driven and Machine Learning Approaches", *Biotechnology and Bioprocess Engineering*, 2020;25(6):895-930.

- The 2023 BBE Best Article Award

Projects

On-going	Mid-career researcher program, Ministry of Science and ICT <u>As a Student Researcher</u> *System Development of Predicting Drug Toxicity and Side-effects via Explainable Artificial Intelligence* Grant Period: Mar 2020 - Feb 2024 (4 years) Grant Budget: 800 M Won (200M Won per 1 year)
Closed	National R&D real challenge program, Korea Institute of Human Resources Development in Science and Technology <u>As a Student Researcher</u> *Development of AI-based Drug Discovery Accelerating System* Grant Period: May 2021 - Nov 2021 (6 months) Grant Budget: 21 M Won

Honor and Award

2023	Excellence Prize, 1st Drug discovery AI Competition, Jump AI 2023 **- KRICT Research Director Award**
2023	EECS Best Poster Award, GIST
2020-2023	Full Government Scholarship (Ph.D. program)

Technical Skills

Programming skills
- Python, Matlab

Machine learning and Deep learning skills
- PyTorch, Scikit-learn, PyG, DGL, etc.

Data-specific techniques
- RDkit, etc.

Last modified: Feb 2024