

# Curriculum Vitae

## Hyunho Kim

### Personal Information

Nationality: Republic of Korea  
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### Educations

Mar, 2018 - Present	Ph.D. Student in Electrical Engineering and Computer Science (GPA: 4.45/4.5) at Gwangju Institute of Science and Technology ( <a href="#">GIST</a> ) Gwangju, Republic of Korea
Mar, 2010 - Feb, 2017	B.S. in Computer Science and Electrical Engineering (GPA: 4.0/4.5, Cum Laude) at <a href="#">Handong Global University</a> , Pohang, Republic of Korea

### Work Experiences

April, 2022 - Present	Visiting graduate student at University of California, San Diego ( <a href="#">UCSD</a> )
Jul, 2012 - Jan, 2015	Computer Teacher* at Kabutare TSS, Rwanda Korea International Cooperation Agency ( <a href="#">KOICA</a> ) *Alternative military service

### Research Areas

- Bioinformatics and cheminformatics
- AI-based computational methods for drug discovery (ADMET property prediction and optimization, etc.)
- Machine learning and deep learning.

### Publications (Peer Reviewed)

[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 2022 Jun 17;bbac211. doi: 10.1093/bib/bbac211.

[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.

Hyunho Kim, Hojung Nam, "hERG-Att: Self-Attention-Based Deep Neural Network for Predicting hERG Blockers", Computational Biology and Chemistry, 2020 May 19;87:107286.

## Conferences/Presentations

2022	<u>Hyunho Kim</u> , Minsu Park, Hojung Nam, "BayeshERG: A Robust, Reliable, and Interpretable Deep Learning Model for Predicting hERG Channel Blockers", RECOMB 2022, La Jolla, U.S., May 22-25, 2022 (Poster presentation)
2020	<u>Hyunho Kim</u> , Hojung Nam, "hERG-Att: Self-Attention-Based Deep Neural Network for Predicting hERG Blockers", APBC 2020, Seoul, Republic of Korea, Aug 18-20, 2020 (Oral Presentation)
2019	<u>Hyunho Kim</u> , Hojung Nam, "hERG-Att: Self-Attention-Based Deep Neural Network for Predicting hERG Blockers", 3 <sup>rd</sup> Global Pharma R&D informatics & AI Congress, London, United of Kingdom, Oct 28-29, 2019 (Poster presentation)

## Projects

May, 2021 - Nov 2021	National R&D Real Challenge Program (Team leader) Project name: Development of AI-based Drug Discovery Accelerating System
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## Honors and Awards

2018-2022	Full Government Scholarship (Ph.D. program)
Dec 2019	EECS Best Poster Award, GIST
Dec 2020	Outstanding Ph.D. Student RA Scholarship, GIST

## Technical Skills

Programming skills (Matlab, Python)

Machine learning and Deep learning skills (Keras, Tensorflow, PyTorch, Scikit-learn, etc.)

Chemical data processing (RDkit)

## Languages

Korean: Native

English: Proficient

*Last modified: June 23, 2022*