

Songyeon Lee

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Education

- Mar. 2020 ~ Present Ph.D. Student in School of Electrical Engineering and Computer Science,
Gwangju Institute of Science and Technology
Gwangju, Korea
- Mar. 2018 ~ Feb. 2020 M.S. in School of Electrical Engineering and Computer Science,
Gwangju Institute of Science and Technology
Gwangju, Korea
Thesis: Breast Cancer Biomarker Identification via Metabolomics Data
- Mar. 2014 ~ Feb. 2018 B.S. in Division of ICT Convergence Engineering,
Sookmyung Women's University
Seoul, Korea
Thesis: Implementation of Linux Apache Web Server Attack Detection Program
through Real-time Log Analysis

Research Interests

- Bioinformatics
- Cancer Target and Biomarker Identification
- Multi-omics Analysis
- Machine Learning and Deep Learning

Publications (Peer Reviewed)

Songyeon Lee, Byung-Joon Seung, In Seok Yang, Jueun Lee, Taewoong Ha, Hee-Myung Park, Jae-Ho Cheong, Sangwoo Kim, Jung-Hyang Sur, Geum-Sook Hwang*, Hojung Nam*, "1H NMR based urinary metabolites profiling dataset of canine mammary tumor", Scientific Data. volume 9, Article number: 132 (2022).

Hansol Lee, Songyeon Lee, Ingoon Lee, Hojung Nam*, "AMP-BERT: Prediction of Antimicrobial Peptide Function Based on a BERT Model." Protein Science (2022): e4529.

Honors and Awards

2018 ~ 2022 Full Government Scholarship (Ph.D. program)
2022 Student Research Scholarship

Technical Skills

Programming language (Python, R)

Machine Learning and Deep Learning