Hansol Lee

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Education

Gwangju Institute of Science and Technology — Gwangju, South Korea
Ph.D. Electrical Engineering and Computer Science — Mar 2019 - Present
Advisor: Prof. Hojung Nam

University of California, Los Angeles — Los Angeles, CA, USA
Bachelor of Science in Statistics — Sep 2014 – Jun 2018

Work Experience

UCLA Recreation — Los Angeles, CA, USA
Operations and Events Assistant — Jun 2017 – Jun 2018

- Conducted maintenance and event equipment planning of Pauley Pavilion, a basketball arena with 12,829 capacity, Drake Stadium, a track-and-field stadium with 11,700 capacity, and LA Tennis Center with 5,800 capacity (~5 events per week)

Priman English Institute — Daejeon, South Korea
English Instructor — Jun 2015 – Sep 2015

- Educated basic and TOEFL-level listening and comprehension skills to middle/high school students at an average of 25 lessons a week

Publications (Peer Reviewed)

Hansol Lee, Songyeon Lee, Ingoo Lee, Hojung Nam, "AMP-BERT: Prediction of Antimicrobial Peptide Function Based on a BERT Model." *Protein Science* (2023): e4529.

Posters and Presentations

Hansol Lee, Songyeon Lee, Ingoo Lee, Hojung Nam. "AMP-BERT: Prediction of Antimicrobial Peptide Function Based on a BERT Model." BIOINFO 2023, Yeosu, South Korea, Nov 13-15, 2023 (poster)

Patents

- 인공지능을 이용한 항균 펩타이드 활성 예측 장치 및 그 방법, 남호정, 이한솔, 10-2023-0034820, 과기정통부 개인연구지원사업(중견연구): *applied for South Korea, 2023*
- APPARATUS AND METHOD FOR PREDICTING ANTIMICROBIAL PEPTIDE FUNCTION USING ARTIFICIAL INTELLIGENCE, 18/424776: *applied for the U.S., 2024*

Honors and Awards

- Ph.D. Research Assistant Scholarship for Outstanding Research, GIST EECS: *2023*
- Full Government Scholarship for Ph.D. program, GIST: *2019-2024*

Research Areas

- Bioinformatics
- Antimicrobial peptide identification and generation using deep learning
- Large language modeling with protein data
    - Physicochemical property prediction
    - *De novo* sequence generation

Skills

Programming/computing

- Proficiency in: Python (statistical analysis, machine/deep learning), R
- Basic knowledge in: C++, Microsoft Word, Microsoft PowerPoint

Languages

- Fluent in Korean, English

Last updated: Feb 2024