

Education

Undergraduate in Biomedical Engineering, Integrated Major in Artificial Intelligence

Korea University, Seoul, 3/2018~2/2024 (expected to graduate)

- Cumulative GPA 4.13
- Member, KUBIG(Korea University Data Science Society) | 1/2022 – 5/2023
- Member, BEAT(Biomedical Engineering Academic Team) | 6/2021 – 2021/12

Experience

Team Joo Internship, Korea University, Seoul

Research Intern, 2022.3 ~ 2022.12

- Research on bioinformatics datasets and preprocessing
- GeneBert project: data preprocessing (2d expression matrix) with Synapse and UKB omics data by using PrediXcan weights

KUBIG, Korea University, Seoul

Member 2022.1 ~ 2023.5

- Project: predicting UV level and frequency of cardiovascular disease with weather data
- Project: Predicting opening and closing of hospital with accounting data
- Project: classify topic of News title (NLP, Roberta and Koelectra)
- Project: Image Super Resolution project (CV, EDSR, SwinIR and RRDB+)
- Study group activity: Graph Neural Network
- Study group activity: Tableau Visualization

Inc. Curigin, Seoul

Research Intern, 2021.6.16 ~ 2022.3.11

- Project: Gene expression pathway analysis automatization using web crawling
- Project: siRNA database preprocessing and annotation mapping
- Project: Scoring efficiency bi-specific siRNA using machine learning regression model

Scientific and/or Technical Expertise

- Programming skills using python(High), Matlab(High), C++(Intermediate), and Linux(Intermediate)
- Analysis experience using bioinformatics tools (PLINK, Samtools)
- Machine Learning and Deep learning end to end modeling using python
- Tableau Visualization
- SAS studio

Research Interests

- Data Mining, Data Analysis
- Precision Medicine with Machine learning and Deep learning
- Computational Biology
- Prediction diseases using artificial intelligence models with omics data

Awards and Honors

- 1st Prize, Pandemic Block-Chain Ideaton, Korea University, 2020
- 3rd Prize, Artificial intelligence idea contest with Cancer Big Data, National Cancer Center, 2020