Curriculum Vitae

Xu Yu 许煜
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Education Background

09/2023 to -	**Ph.D. student**	**Hong Kong Baptist University**
09/2020 to 07/2021	**M.Sc.**	**Hong Kong Baptist University**
09/2013 to 07/2017	**B.Eng.**	**Beijing Normal University, Zhuhai**

Research Interest:

Computational biology, AI in drug discovery, Deep learning

Academic Position

08/2021 to 08/2023 **Department of Computer Science, Hong Kong Baptist University**
◆ **Senior Research Assistant**

Publications

1. **Xu, Y.**, Chen, J., Lyu, A., Cheung, W.K. and Zhang, L., 2022. dynDeepDRIM: a dynamic deep learning model to infer direct regulatory interactions using time-course single-cell gene expression data. *Briefings in Bioinformatics*, *23*(6), p.bbac424. **(IF:13.9)**
2. **Xu, Y**., Wang, C., Li, Z., Cai, Y., Young, O., Lyu, A. and Zhang, L., 2022, December. A machine learning model for disease risk prediction by integrating genetic and non-genetic factors. In *2022 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)* (pp. 868-871). IEEE Computer Society.

Research Projects

Research assistant, Hong Kong Baptist University
1. **Project name:** Machine Learning in Disease risk prediction
   - ✔ UK biobank data processing (phenotype & genotype data)
   - ✔ Model implementation
   - ✔ Result analysis
   - ✔ Oral presentation at the BIBM2022 conference (section: Cross-Cutting Computational Methods and Bioinformatics of Disease)
2. **Project name:** Deep Learning in gene regulatory network reconstruction
   - ✔ Model backbone design
   - ✔ Algorithm implementation in Tensorflow
   - ✔ Data collection in GEO (gene expression omnibus) and GO (gene ontology) & Raw data processing
   - ✔ Experiments design and implementation
   - ✔ Result analysis

Others:

IELTS: overall: 7.0 – Reading:7.5; Listening:7.5; Writing:6.0; Speaking:6.0.
National Computer Rank Examination Certificate Grade 2: C Programming Language
National Computer Rank Examination Certificate Grade 3: Embedded System Design
Merit Scholarship in MSc Advanced Information System, Sem 1 of 2020-2021
Merit Scholarship in MSc Advanced Information System, Sem 2 of 2020-2021