Yufan Liu

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Education

The University of Hong Kong, Ph.D. Candidate in Computer Science — Mar 2025 – Present
- **Supervisor:** Prof. Zhenqin Wu

KAUST, Ph.D. Candidate in Computer Science — Aug 2023 – Jan 2005
- **Supervisors:** Prof. Xin Gao and Dr. Chencheng Xu

Tsinghua University, M.S. in Biology — Aug 2019 – Jun 2023
- **Supervisor:** Prof. Boxue Tian and Prof. Guangshuo Ou

Huazhong Agricultural University, B.S. in Biotechnology — Aug 2015 – Jun 2019
- **Supervisor:** Prof. Guangshuo Ou

Experience

Machine Learning Researcher, Guang'anmen Hospital, China Academy of Chinese Medical Sciences – Beijing — Oct 2024 – Present
- **Advisor:** Prof. Kuiwu Yao
- Machine learning methods for cardiovascular diseases

Artificial Intelligence Developer, Bestzyme Bio-engineering CO., LTD. - Nanjing — Mar 2024 – Jan 2025
- Properties optimization of Glucoamylase

Machine Learning Intern, Tong Ren Hospital, Capital Medical University - Beijing — May 2021 – Sep 2021
- **Advisor:** Prof. Lihui Huang
- Machine learning methods for newborn deafness diagnosis

Undergraduate Research Intern, School of Life Sciences, Tsinghua University - Beijing — Jul 2018 – Sep 2018
- **Advisor:** Prof. Xiao Liu
- Bioinformatics analysis for Next-generation Sequencing (NGS) data

Undergraduate Research Intern, College of Informatics, Huazhong Agricultural University - Wuhan — Mar 2018 – Nov 2018
- **Advisor:** Prof. Jingbo Xia
- Bioinformatics for bioarray data and biomedical NLP

Selected Publications

Protein-small molecule binding site prediction based on a pre-trained protein language model with contrastive learning — Journal of Cheminformatics 2024
Jue Wang#, *Yufan Liu#*, Boxue Tian*

Protein-DNA binding sites prediction based on pre-trained protein language model and contrastive learning — Briefings in Bioinformatics 2024
Yufan Liu and Boxue Tian*

RNA editing restricts hyperactive ciliary kinases — Science 2021
Dongdong Li, *Yufan Liu*, Peishan Yi, et al., and Guangshuo Ou*

Research Skills

Computer Science: Python, C++, R, PyTorch, and commonly-used machine learning libraries

Bioinformatics: NGS data analysis, Medical Image Analysis, PyMol, Biopython, and commonly-used bioinformatics tools