

Qingyu Yin

Zhejiang University, ZJU-HIC Institute for Intelligent Bio/Chem Manufacturing

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Education

Zhejiang University

2022.9-2024.6 (expected)

Bachelor, School of International Study / School of Computer Science

Overall GPA: **3.81** | **82.7**

Research Interests

- ✧ Natural Language Processing / Computational Linguistics
- ✧ Bioinformatics / Genetics
- ✧ Graph Neural Network / Knowledge Graph

Publications & Awards

MIKU-RWKV: RWKV with Modularized Instruction-Knowledge Units (working)

Qingyu Yin, Qiang Zhang, Xifeng Xue

GaaW: Gene as a Word to efficiently evaluate genetic information (working)

Qingyu Yin, Qiang Zhang

Diffusion-based graph generative methods (under review)

Hong Chen*, Can Xu*, Lingyu Zhen, Qiang Zhang, **Qingyu Yin**

Best Class Reward, Zhejiang University, 2023

NOIP Shandong Province Second Prized (top 10%)

CSP Shandong Province Second Prized (top 20%)

NOIP Zibo First Prize (ranked 4th)

Research Experience

ZJU-HIC, Qiang Zhang Lab

2023.3 – Present

NLP/Genetics: I mainly working hard research the applications of large language models in human genomics and bioinformatics. By pretraining on human genomic sequences and utilizing efficient fine-tuning techniques, it becomes possible to achieve automated analysis and autoregressive generation of the genome.

Tutor: Qiang Zhang (ZJU-HIC)

Zhejiang University, Program Design

2023.3 – 2023.6

LightC Programmer: A light IDE designed for cuda, c, and other scientific calculations, based on libgraphics and GUI from ZJU Graph Lab

Collaborated with Ronghao Zhang, Ziyang Xu

Tutor: Shaoyong Xiao (ZJU), Dianbing Xi (ZJU)

Shandong University, Taishan School

2023.2 – 2023.4

Inter oneAPI competition: We designed an efficient matrix multiplication acceleration algorithm and neural network infrastructure based on Intel's oneAPI. Using our architecture, we have implemented quality detection for red wine.

Collaborated with Shaojun Si (SDU)

Shandong University, Taishan School

2023.2 – 2023.4

MiniChatGPT: We designed a web-based ChatGPT interface program using Python, JavaScript, and MySQL. It includes features such as hotword search and data storage. Our project has successfully passed the course's evaluation.

Collaborated with Shaojun Si (SDU)

Service

Research Assistant in ZJU-HIC, Zhangqiang Lab
cofounder of StarsGallery, an open research group
member of Guitar Association, ZJU

Skills

Tools and Computer Languages

- Python, C/C++, JavaScript, LaTeX, Git, Linux

Deep Learning Research

- Pytorch, Pytorch Lightning, deepspeed, wandb, matplotlib, Numpy

Other Skills

- excellent electronic guitar player and soccer player