Hanyu Shou

UNDERGRADUATE STUDENT · BIOMEDICAL INFORMATICS

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ZJU-UoE Institute
浙江大学爱丁堡大学联合学院

Education

ZJU(Zhejiang University)   *Haining, P.R.China*

B.S. IN BIOMEDICAL INFORMATICS   *Sep. 2024 - Jun. 2028 (Expected)*

- GPA: 3.31/4.0, Rank: 14/62 in first semester of year 1
- Relevant Coursework: Intergrative Biomedical Science, Cellular and Molecular Biology, Introduction to Biomedical Informatics

Research Experience

Zhu lab / INSTITUTION OF ADVANCED BIOTECHNOLOGY   *SUSTech / Shenzhen, P.R.China*

INTERNSHIP   *Jun. 2025 - Aug. 2025*

- Project1: AI-assisted development of small DNA nickase
- Project2: Phage display high-throughput screening
- Assisted in SF01 PAMless variant engineering

Skills

Programming   Python(Main), R, Latex

Languages   Chinese(First language), English(Experienced)

Learning Experience

Introduction to Biomedical Informatics (IBI) 1 Group Project   *Haining, P.R.China*

MAIN PROGRAMMER & GROUP LEADER   *Mar. 2025 - Apr. 2025*

- Worked with 3 group mates.
- Developed programs to count the most frequent codon(s) in the given DNA sequences, interpret the codon(s) into amino acid(s), and calculate amino acid frequencies.
- Extended the program functionality to perform simple alignment of two DNA sequences and calculate the similarity score based on global alignment.
- Implemented the above programs in Python.
- Created a poster and gave a presentation on the project.
- The code package can be found in the IBI1_ICA repository on my GitHub.

Introduction to Biomedical Informatics (IBI) 1 Practical   *Haining, P.R.China*

PARTICIPANT   *Feb. 2025 - present*

- Studied the basics of bioinformatics and programming skills in Python.
- Developed several programs, including manipulating FASTA profiles, calculating TATA boxes, and simulating virus outbreaks among vaccinated populations.
- Gained proficiency in using Linux and remote servers.
- Built a GitHub account and personal portfolio.
- All outcomes can be found in the IBI1_2024-25 repository on my GitHub.
- My personal portfolio can be found at `https://shwenyu.github.io/`.

Introduction to Cellular and Molecular Biology (ICMB) 1 Group Wiki Project   *Haining, P.R.China*

GROUP LEADER   *Feb. 2025 - Mar. 2025*

- Collaborated with 5 students to create a wiki page introducing the overall knowledge of CRFR1 in the human body.
- Authored the section on the structure of CRFR1, including its unique secondary structure with a binding knot and its function-related structural specificity.
- Formatted and organized the wiki page.

Extracurricular Activity

Movie team of the ZJU-UoE institute   *Haining, P.R.China*

Core Member & Leader   *Nov. 2024 - present*

- Shot vedios and edited, and worked as the team leader.
- The movies and photos are used for the institute's Wechat channel and social media account.

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Core Member & Leader   *Nov. 2024 - present*

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