

Linqing Hu

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EDUCATION

The University of Manchester

09. 2023 – 09.2024

MSc Bioinformatics and Systems Biology, Grade: Distinction

Core modules: Bioinformatics, Computational Approaches to Biology, Experimental Design and Statistics

Project 1: Prof Simon Hubbard's Lab: Co-translational Protein Complex Assembly: integrating structural and quantitative mass spectrometry data to identify candidates

Project 2: Prof Gisela Orozco's Lab: Using GWAS, RNA-seq and ATAC-seq combined functional genomic annotation to discover the TF-binding regulatory mechanism responsible for Psoriatic Arthritis (PsA)

The University of Edinburgh

09. 2019 - 05. 2023

BSc Hons Biological Sciences (Biotechnology), Degree: UK 2:1

Core modules: Biotechnology; Molecular Biology, Gene Expression and Microbial Regulation, Enzymology and Biological Production, Plant Biotechnology, Novel Approaches, Quantitative Skills

Honours project: Dr Sander Granneman's lab: Performing Differential Gene Expression (DGE) analysis and GO term enrichment analysis of the Nanopore RNA sequencing data to decipher the role of the endonuclease RNase III in regulating Methicillin-resistant *Staphylococcus aureus* (MRSA) gene expression.

EXPERIENCES

iGEM (International Genetically Engineered Machine) Competition

06. 2022 - 10. 2022

Team member of Edinburgh-UHAS_Ghana, leader of the Art and Creativity group

- Assisted team in background research, protocol research, and wet lab experiments for the project 'Building a biodegradation device containing a PETase and MHETase-involved enzyme cocktail to solve water pollution problem in Ghana'. **Awards: Gold Award, Best Track Nomination.**
<https://2022.igem.wiki/edinburgh-uhas-ghana/index.html>
- Independently designed team logo, wiki page and promotional video.
- Deeply involved in social engagement activities to increase the publicity of the team and synthetic biology, helped found raising of £4,000 to send the whole team to attend the Paris Giant Jamboree.

iDEC (International Direct Evolution Competition)

06. 2022 - 10. 2022

Team member of Edinburgh-UHAS_Ghana

- Conducted plasmid construction and transferring in the project 'Random mutagenesis and silver nitrate (AgNO₃) based negative selection of different metallothioneins (MTs) exploring the potential for functional MT directed evolution'.
- Together we achieved **Gold Award, Best Community, Best Presentation, Best Target Molecule Nomination, Funniest Evolution Nomination, Best Molecular Evolutionary Machines Nomination and Best Molecular Evolutionary Outcomes Nomination**
https://idec-teams.github.io/2022_Edinburgh-UHAS_Ghana/

Bluepha Co., Ltd. (Shenzhen, China)

05. 2021 - 08. 2021

iGEM team advisor

- Supervised 13 high school students on web lab experiments and social engagement activities on the project 'Design an improved ligand-nanoparticle system which utilizes pH-sensitive aptamer to improve specificity on targeting HER2 proteins'. Helped the team to achieve a **Gold Award**.
https://2021.igem.org/Team:GreatBay_SCIE

Summer programs instructor

- Independently developed teaching materials for teenager-oriented summer programs 'Building a microscope with Lego Bricks', demonstrated excellent independent task execution ability.
- Independently taught 4 middle school students on a synthetic biology-based summer school costing £10000 'Constructing plasmid for fluorescent expression in *E. coli*' and 'Constructing plasmid to expression Polyhydroxyalkanoates (PHAs) biodegradable plastics in *E. coli*'. Received significant recognition from the students, parents and company all parties.

Mussel and Steak Bar (Edinburgh, UK), Waitress

11. 2021 – 09. 2023

- Motivated and customer-oriented waitress with excellent interpersonal skills and a strong commitment to providing exceptional dining experiences in a fast-paced environment.

SKILLS

Wet lab: Plasmid construction, transmission and grouping together DNA skills, PCR, Centrifugation techniques, Spectrophotometer analysis, Agarose gel electrophoresis, Chromatography for protein extraction and purification, Western blotting, Enzyme-linked immunosorbent assays (ELISA), Light and fluorescence microscopy, Bacteria culturing, Plate striking technique, Insect dissection, Environmental sampling

Dry lab: Python3, R, Bash, Git, Snakemake

Languages: Mandarin (native), English (professional), Japanese (entry-level), Korean (entry-level)

Others: Affinity Designer2, Adobe Illustrator, Procreate, Adobe Premiere Pro

SELECTED ACADEMIC AWARDS AND HONOURS

2023 SynBioBeta Synthetic Biology Global Conference (Student representative), Oakland, US **2023**

The 12th Summer Research Program on Biomedicine, Medical Facility, Tsukuba University **2022**

Quantitative Biology Summer Training Program, Peking-Tsinghua University Life **2021**

Science Joint Centre, Peking University

Silver Award from Intermediate Biology Olympiad, Royal Society of Biology **2018**

Silver Award from Cambridge Chemistry Challenge, University of Cambridge **2018**

SELECTED LEADERSHIP EXPERIENCE AND OTHER AWARDS

British Kendo Association (BKA) Kendo Level 1 Coach **2024**

- Has a good understanding and dedication to providing professional training to promote kendo.

Edinburgh University Kendo Club (EUKC), Health and Safety Officer, Active member **2021 - 2023**

- Represented the university in local and national competitions and achieved awards.
- Provided training advice and first aid help to club members, maintained a safe training environment.
- Determined, persistent and resilient, have a strong spirit that does not stop until the goal is achieved.

Edinburgh Model United Nations **2023**

- Participated in the 2023 Scot MUN to debate on 'the legitimacy of commercial and altruistic surrogacy and egg donation', great at understanding problems from multiple positions.

The University of Edinburgh Chinese Debating Society, Active member **2020**

- Excellent in critical thinking, language construction and argument present in public speaking
- Has a high level of language fluency, articulation and clarity in effective communication

British Royal Marine Look At Life Course (Lymptone, UK) **2018**

High School Jiulian Business Society, Committee member, President of Central Bank **2016 - 2017**

- Represented the high school in the 5th National Business Challenge. Assisted the organisation of the 4th Shanxi province business competition with 120+ attendees.
- Has knowledge in auditing and finance, great at brainstorming and seeking business opportunities.

Professional training in fine art for 5 years **2012 – 2017**

Has a good aesthetic. Skilled in drawing, and making designs and figures at the publication level.