

# Linqing Hu

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## EDUCATION

### The University of Manchester

09. 2023 - Now

MSc Bioinformatics and Systems Biology, Expected 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 (AgNO<sub>3</sub>) 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/](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](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 (Lymington, UK)** **2018**

**High School Julian 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.