

Zijing Lai

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EDUCATION

09/2024 - 09/2025 The Glasgow School of Art

Major: Medical Visualisation and Human Anatomy

Degree: Master of Science

Course: Volumetric Visualisation, 3D Modelling and Animation, Interactive Visualisation, Academic Skills for Masters Research, Human Computer Interaction and Extended Reality, Introduction to Anatomy, Structure and Function of the Human Body.

09/2020 - 06/2024 Sun Yat-sen University

Major: Biotechnology

Degree: Bachelor of Science

GPA: 3.647/5.0

Course: Life Science Research Methods, Cell Biology, Cell Biology Experiment, Biochemistry, Biochemistry Experiment, Microbiology Experiment, Tumor Biology, Bioinformatics, etc.

PROJECTS EXPERIENCE

11/2024 - 12/2024 Final Project of Interactive Visualisation Course:

Development of an Educational App on Uterine Anatomy and PCOS

- Led the team, coordinating task distribution, defining target users, and driving project progress.
- Built the app framework, developed an interactive QUIZ scene, and resolved UI/scripting challenges to enhance usability.
- Designed navigation controls, refined user guidance, and established a cohesive visual style with optimized colors, fonts, and aesthetics.
- Received high praise from the professor and classmates and achieved a high grade.

12/2023 - 05/2024 UnderGrad Graduation Project:

The Mechanism of Piezo1-Regulated Ion Transport in Vaginal Epithelial Cells

- Utilized molecular biology techniques, including RT-qPCR and Western blot, to confirm the stable expression of Piezo1 in mouse vaginal epithelial cells.
- Employed the short-circuit current (ISC) technique to demonstrate that Piezo1 activation induces K⁺ secretion, revealing its potential role in vaginal lubrication during sexual arousal.
- Explored intracellular mechanisms by applying selective inhibitors, identifying the involvement of K_{Ca} channels, NKCC, and NKA in Piezo1-mediated K⁺ transport.
- Provided theoretical insights into the physiological functions of Piezo1 in vaginal epithelial cells, contributing to potential therapeutic approaches for sexual arousal disorders.

08/2022 - 09/2022 Cytiva Summer Program: Research on Domestic Films for Disposable Bags

- Served as the project leader, coordinated the project management, and organized the market research on imported and domestic films;
- Compared the performance of disposable films and summarized the competitive advantages of the product and the company;
- Reported the research results and led the team to win 3rd place in Cytiva's "Rookie Up" program.

INTERNSHIP EXPERIENCE

09/2023 - 12/2023 P&G 7th Co-Development Talent Program *Head & Shoulders Science Communication Program*

- Applied big data analysis tools to investigate the needs of the Head & Shoulders audience to understand potential demand for science content;
- Translated the product's scientific knowledge into interesting and easy-to-understand forms of communication and presented them through handmade 3D mold and small experiment;
- Publicized shampoo knowledge through KOLs and Head & Shoulders product live streams to enhance brand value and increase consumer understanding.

08/2023 - 09/2023 China Nature Education Network *Research Products Department Intern*

- Participated in interviews with nature education instructors and family organizations;
- Pushed forward with important seminars and compiled the meeting minutes;
- Compiled data from industry development reports and wrote the analysis.

07/2022 - 08/2022 Zhihui Medical Technology Co., Ltd *Medicine Department Intern*

- Tested the liquid tumor cell detector and cultured tumor cells, performed standardized tests on blood and urine samples of cancer patients daily for research;
- Compiled data from different dimensions and collected information on cancer patients' illnesses based on cases; Reviewed relevant literature and independently investigated the prospects of circulating tumor cells

EXTRACURRICULAR ACTIVITIES

- 06/2024 - 09/2024 Mascot Design for the 100th Anniversary of School of Life Sciences, SYSU**
- Collaborated with faculty and design team members through multiple discussions to establish the mascot concept, inspired by the bamboo in the school's Bamboo Garden. Created various design iterations before finalizing "Zhu Shengsheng" (a young bamboo shoot) and "Zhu Keke" (a mature bamboo) as the official mascots.
 - The mascots were widely featured in anniversary promotional materials and produced as physical plush toys and keychains, receiving enthusiastic support from alumni. The pre-order campaign raised over 120,000 RMB, contributing to the school's development.
- 07/2023 - 07/2023 2023 China Nature Education Conference** *Volunteer Design Team Leader*
- Designed online and offline promotional materials, including campus guide maps, event display boards, activities brochures, etc.;
 - Produced guest posters and organized posting campaigns to expand event communication;
 - Assisted in reviewing the event review video and proofreading the subtitles.
- 09/2022 - 06/2023 Kang Le Botanical Interest Club, School of Life Sciences, SYSU** *Publicity Team leader*
- Produced the materials such as monthly flower appreciation public account push, popular science posters and campus flora brochures, etc.;
 - Organized overall arrangement of members and shared the publicity work, which attracted many individuals who were interested in plants to participate in our activities.
- 10/2020 - 09/2022 Sun Yat-sen University Radio** *Director of South Campus*
- Coordinated the daily management of the radio station, and formulated work plans;
 - Organized several large-scale university-level art activities such as campus concerts and modern school history dramas.

AWARDS

- 03/2025 GSA Student Innovators & Entrepreneurs Award 2025**
- 07/2023 Excellent Volunteer** of the 2023 China Nature Education Conference
- 07/2023 2nd Prize** in Exchange and Screening of Colleges and Universities Film and Television Works
- 05/2023 4nd Prize** in Guangdong Province of University Street Dance Competition
- 07/2022 2nd Prize** in the Bio-Discovery Project Writing Competition of the School of Life Sciences
- 05/2022 2nd Prize** in Literature Reading Competition of School of Life Sciences, Sun Yat-sen University

ADDITIONAL INFORMATION

- **Languages:** Chinese Mandarin (Native), English
- **Skills:** PS, AI, ID, PR, AE, ME; 3Ds Max, ZBrush, Blender, Maya; 3D Slicer, MITK; Unity, C# Scripting; Procreate, Nomad
- **Hobbies:** Street Dance, Painting, Calligraphy, Table Tennis