

# YAO XIANG

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## EDUCATION

### UNIVERSITY OF CALIFORNIA, SAN DIEGO

Bachelor of Science, Biology w/Spec Bioinformatics

Expected Jun. 2029

- GPA: 3.925/4.0 (FA25)
- BILD 5: A+

### CHENGDU NO.7 HIGH SCHOOL INTERNATIONAL DEPARTMENT

Jun. 2025

- GPA: 4.0/4.0
- A-Level Biology: A\*

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## EXPERIENCE

### INSTITUTE OF CLINICAL PATHOLOGY AT WEST CHINA HOSPITAL, SICHUAN UNIVERSITY, P.R.C.

Jul. 2023 – Aug. 2023

#### Intern

- Assisted with proteomic workflow using Proteome Discoverer
- Prepared tissue samples using microtome under supervision of technician.
- Helped with basic tasks during a liver perfusion and disassociation experiment of rat, learning workflow and experiment protocols.
- Measured and evaluated hepatic spheroid suspensions using a Coulter Counter and recorded quality-control data.
- Reviewed literature on bioartificial liver technologies, summarizing limitations and challenges of current major approaches

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## PROJECT & RESEARCH

### *A meta-analysis of efficiency of traditional Chinese medicine concerning physical recovery in COVID-19*

DOI: 10.54254/3029-0821/2/2024014

Sep. 2023 – Sep. 2024

#### First Author

- Reviewed and summarized 48 peer-reviewed studies on TCM and SARS-CoV-2 infection.
- Critically evaluated the efficacy of four major TCM drugs in comparison with conventional medicines for COVID-19.

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## EXPERIENCE

### Protein-coding Genes Potential Analysis Using 3<sup>rd</sup>-order Markov Chain Model

<https://github.com/Trissoil/Simulated-Data-Analysis-with-R-Language>

Dec. 2025

- Used Python for scoring DNA sequence using 3<sup>rd</sup>-order Markov chain model.
- Generated negative controls for feeding via sequence shuffling
- Conducted Welch's t-test. ( $p < 0.005$ )