

Xuanzhi Chen

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School of Life Sciences, Peking University, Beijing, China

EDUCATION

Peking University

Beijing, China

B.Eng. Candidate in Bioinformatics, School of Life Sciences

Sep. 2023 – Jun. 2027 (Expected)

- Pursuing a double degree in Economics at the National School of Development.
- GPA: 3.72/4.0. Core coursework: Bioinformatics, Statistical Analysis of Genomics Data, AI Methods and Applications in Life Sciences, Data Structures & Algorithms, Computational Immuno-oncology, and Molecular Biology.

RESEARCH EXPERIENCE

Qiu Lab, Stanford University

Stanford, CA

Summer Researcher

Jun. 2026 – Aug. 2026

- **Supervisor:** Prof. Xiaojie Qiu.
- **Bio-Babel – Scientific Software Agents:** Extended an agentic framework that enables AI agents to understand, use, and translate scientific software through automated package annotation, agent-tool integration, workflow validation, and cross-language software translation.
- **CycLENS – End-to-End iST Model:** Developing a unified model that jointly learns image alignment, transcript localization, and barcode decoding from raw multiplexed fluorescence images, aiming to reduce error propagation and generalize across experiments, imaging platforms, and iST technologies.
- **iST Upstream Processing Agent:** Developing a scientific agent that automates data organization, quality control, parameter tuning, algorithm selection, and workflow orchestration for registration, image enhancement, spot detection, decoding, and cell segmentation.

School of Future Technology, Peking University

Beijing, China

Undergraduate Researcher

Jul. 2024 – Present

- **Supervisor:** Prof. Hu Zeng.
- **STATES-GBM Spatial Multi-omics Analysis:** Applying STATES, which jointly profiles the spatial transcriptome and translome, to investigate GBM spatial organization and translational regulation through upstream pipeline optimization and downstream multimodal analysis.

MANUSCRIPT

- **Bio-babel: an agent-built and agent-callable ecosystem for bioinformatic analysis.** Co-author; manuscript in preparation.

HONORS & AWARDS

Peking University Scholarship

2025

Peking University Freshmen Scholarship

2023

Gold Medal, China National Biology Olympiad Final

2022

TECHNICAL SKILLS

Computational Tools: Python, R, Git, Linux

Computational Biology: Spatial multi-omics, single-cell genomics, computational oncology, bioimage analysis

AI & Methods: Scientific agents, deep learning, computer vision, multimodal learning, workflow automation

Wet Lab: Molecular cloning, Western blotting, protein purification, CRISPR-Cas9, PCR/qPCR