

Yibin Zhou

GRADUATE STUDENT IN CLINICAL PHARMACY

Shanghai, China

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"In the middle of difficulty lies opportunity."

Research Interests: Single-cell Omics, Computational Biology

Education

Fudan University

MASTER OF SCIENCE IN CLINICAL PHARMACY

- GPA: 3.3/4.0
- Relevant Courses: Clinical Pharmacology, Molecular Pharmacology, Pharmacogenomics, Medical Molecular Cell Biology

Shanghai, China

Sep. 2022 - Present

China Pharmaceutical University

BACHELOR OF ENGINEERING IN PHARMACEUTICAL ENGINEERING

- GPA: 3.5/5.0
- Relevant Courses: Biochemistry, Medicinal Chemistry, Organic Chemistry, Pharmaceutical Analysis

Nanjing, China

Sep. 2018 - Jun. 2022

Skills

Programming R, Python, Bash

Bioinformatics Tools DESeq2, GSEA, Bioconductor, Seurat, BLAST

Data Analysis Survival Analysis, GWAS, Data Visualization (ggplot2, ComplexHeatmap)

Technical Tools Git, Linux (Ubuntu), RStudio, Hugo (Academic), Netlify, LaTeX

Languages English (TOEFL scheduled), Mandarin (Native), Japanese (JLPT N1 scheduled)

Domain Knowledge Clinical Pharmacy, Pharmacokinetics, Drug Development

Interests & Expansion AI in Drug Discovery (TensorFlow), Machine Learning (actively learning)

Experience

bioPalette: Color System for Bioinformatics Visualization

CREATOR & DEVELOPER

- Designed and implemented an R package that provides semantic, modular color palettes tailored for biological data visualization.
- Supported integration with ggplot2, ComplexHeatmap, ggVennDiagram, and other tools commonly used in multi-omics research.
- Implemented reusable APIs, JSON-based color scheme structure, and logging-enabled palette compilation workflows.

Personal Project

Apr. 2025 - Present

scFlowKit: Single-Cell RNA-seq Workflow Toolkit

FOUNDER & MAINTAINER

- Developed a modular and reproducible workflow for single-cell RNA-seq analysis, including data import, QC, integration, and visualization.
- Built general-purpose functions such as `read_sce()` with support for multiple formats (.h5, .loom, .mtx, .h5ad).
- Focused on user-friendly design, structured annotation, and compatibility with Seurat and SingleCellExperiment objects.

Personal Project

Apr. 2025 - Present

Clinical Research

GRADUATE RESEARCHER & CO-AUTHOR

- Co-authored a clinical study titled "Clinical Characteristics, Pathogen Distribution, and Factors Affecting Visual Outcomes of Pediatric Post-Traumatic Endophthalmitis".
- Conducted statistical analysis of clinical and microbiological data, including logistic regression and multivariate modeling.
- Participated in manuscript writing, figure preparation, and final revision; contributed to the identification of prognostic factors.
- Published in MDPI *Antibiotics* (IF: 4.3). DOI: 10.3390/antibiotics14010020

Shanghai, China

Oct. 2023 - Jan. 2024

Cell by Cell: Personal Blog

WRITER & DESIGNER

- Launched a personal blog to share curated insights in bioinformatics, academic writing, and scientific workflows.
- Wrote original articles in both English and Chinese, targeting early-career researchers in life sciences.
- Built on Hugo framework with a custom theme; integrated with NotionNext and deployed via Vercel.

<https://blog.evanzhou.org>

Jan. 2025 - Present

Google

LEARNER & DOCUMENTER

- Completed structured Git/GitHub training via *Happy Git with R* and Coursera online course.
- Built a learning project repository documenting version control best practices for data science and academic research.
- Practiced branch management, collaborative commits, and GitHub Pages deployment in real projects.

Personal Project

Mar. 2025 - Apr. 2025

Molecular Biology Lab

GRADUATE RESEARCHER

Shanghai, China

Sep. 2022 – Jan. 2025

- Conducting molecular and transcriptomic research on the pathogenesis of cutaneous squamous cell carcinoma (CSCC).
- Exploring the role of 4EBP1 and mTOR signaling in tumor proliferation and angiogenesis using multi-omics data.
- Integrated bulk RNA-seq analysis, protein expression validation, and pathway enrichment to identify candidate targets.