

ZHAOYANG HUANG

Xidian University

[Mail: hzy554598474@163.com](mailto:hzy554598474@163.com)[Tel: 86-18406468040](tel:86-18406468040)**EDUCATION**

Phd candidate	Xidian University Major in Computer Science	Xi'an, China Sep 2024 – Now
MA	Xidian University (Honored Graduate) Major in Computer Science	Xi'an, China Sep 2021 – July 2024
BA	Jiangsu University of Science and Technology Major in Software Engineering	Zhenjiang, China Sep 2017 – July 2021

PUBLICATIONS

- [1] **Zhaoyang Huang**, Xinyang Guo, et al. Accurate RNA velocity estimation based on multibatch network reveals complex lineage in batch scRNA-seq data[J]. BMC biology, 2024, 22(1): 290([link](#)).
- [2] **Zhaoyang Huang**, ZhiChao Xiao, et al. Computational approaches for predicting drug-disease associations: a comprehensive review[J]. Frontiers of Computer Science, 2025, 19(5): 1-15([link](#)).
- [3] **Zhaoyang Huang**, Shengjian Chen, et al. Predicting new drug indications based on double variational autoencoders[J]. Computers in Biology and Medicine, 2023, 164: 107261 ([link](#)).
- [4] Xinyang Guo, **Zhaoyang Huang**, et al. Highly Accurate Estimation of Cell Type Abundance in Bulk Tissues Based on Single-Cell Reference and Domain Adaptive Matching[J]. Advanced Science, 2024, 11(7): 2306329([link](#)).

PREPRINTS

Zhaoyang Huang, Haonan Ma, Yuchuan Peng, Chenguang Zhao, Liang Yu, **CellFateExplorer: An integrated platform for exploring cell fate**([link](#))

RESEARCH EXPERIENCE

- Bioinformatics Lab, Xidian University
(supervised by Prof. LiangYu) Xi'an, China
Sep 2021 – now
 - Cell differential algorithm development (Research interests)
 - scRNA-seq Data Mining (Cooperation with Xijing Hospital and Second Affiliated Hospital of Xi'an Jiaotong University)

SELECTED AWARDS AND HONORS

- Outstanding graduates, Xidian University 2024
- Enterprise Scholarship of Xiaomi, Xidian University 2023
- National Encouragement scholarship, Jiangsu University of Science and Technology 2018 & 2019

SKILL

- Programming Language: Python, R, C++, Java, HTML/CSS/JS.
- Computer skills: Operating Systems, Computer Networks, Data Structures, Linux Usage.
- Theoretical skills: Single-Cell Omics, Graph Mining.
- Research skill: Paper Reading & Writing, Science Frontier Tracking.

LANGUAGE

Chinese, English

SERVICES

- Teaching Assistant for Data Mining Course, Xidian University 2022 - 2024

RESEARCH INTERESTS

- Bioinformatics algorithm and tool development
- Single cell omic data analysis