

Weidong Wu

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CONTACT

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EDUCATION

PhD., Biomedical Informatics, 2024 - Present
The Ohio State University, Columbus, OH, USA. (Qin Ma and Anjun Ma)
M.S., Biomedical, 2024
Zhengzhou University, Henan, Zhengzhou, China. (Ying Peng and Xia xue)
B.S., Software Engineering, 2021
Zhengzhou University, Henan, Zhengzhou, China.

PROFESSIONAL EXPERIENCE

08/2024-present, **Graduate Research Assistant**
Department of Biomedical Informatics at The Ohio State University, OH

- Analyze bulk-level, single-cell, and spatial multi-omics datasets to derive meaningful insights for immuno-oncology research.
- Cross-Species Tools development.
- Developed deep learning frameworks to study transcriptional regulation using single-cell multiomics data, providing new avenues for investigating gene expression patterns and regulation mechanisms.

JOURNAL PUBLICATIONS

Full list: <https://scholar.google.com/citations?user=kKMLVpUAAAAJ&hl=en>

First and co-first author (#)

1. **Wu, W.**[#], Liu, B. [#], Zhang, Q. [#], Zhang, X., Feng, P., Jia, Y., & Xue, X. (2025). Heterogeneity and efficacy of immunotherapy in multiple cancer: insights from a meta-analysis. Biological Procedures Online, 27(1), 17.

2. Si, Y., **Wu, W.**[#], Xue, X., Sun, X., Qin, Y., Li, Y., ... & Zheng, P. (2023). The evolution of SARS-CoV-2 and the COVID-19 pandemic. *PeerJ*, 11, e15990.
3. **Wu, W.**[#], Wang, Y., Xu, S., & Yan, K. (2020, September). Sfnn: Semantic features fusion neural network for multimodal sentiment analysis. In 2020 5th International Conference on Automation, Control and Robotics Engineering (*CACRE*) (pp. 661-665). IEEE.

Contributing author

1. Proteostatic Stress Response Drives T Cell Exhaustion and Immune Evasion. *Nature*.
2. O-GlcNAc transferase plays dual antiviral roles by integrating innate immunity and lipid metabolism. *Nature Communications*.
3. Wang, X., Duan, M., Su, P.L., Li, J., Krull, J., Jin, J., Chen, H., Sun, Y., **Wu, W.**, He, K. and Carpenter, R., 2025. Deep-learning-enabled multi-omics analyses for prediction of future metastasis in cancer. *bioRxiv*, pp.2025-05.
4. Jiang, Y., Wang, S., Feng, S., Wang, C., **Wu, W.**, Huang, X., Ma, Q., Wang, J. and Ma, A., 2024. scGNN+: Adapting ChatGPT for Seamless Tutorial and Code Optimization. *bioRxiv*, pp.2024-09.
5. Ye, S., Li, C., Zhao, R. and **Wu, W.**, 2019. NOAA-LSTM: A new method of dialect identification. In *Artificial Intelligence and Security: 5th International Conference, ICAIS 2019, New York, NY, USA, July 26-28, 2019, Proceedings, Part I 5* (pp. 16-26). Springer International Publishing.

Journal reviewer:

2025, **Heliyon, Guest Reviewer**

PRESENTATIONS

2025, **xx**
PIIO Research in Progress. Columbus, OH. (Oral Presentation)

TEACHING

202x, **Bioinformatics workshop**, Lecturer
Department of Biomedical Informatics, OSU

MENTORING

2023, xx xx (xx, China)

AWARDS

2022, xx, OSU

SKILLS

- **Bioinformatics & Data Analysis:** Next-generation sequencing, single-cell multi-omics data analysis, high-performance computing (R, Python, HPC systems)
- **Software Development:** Java Boot Spring, Vue, Flask.
- **Machine Learning & AI:** Pytorch.
- **Data Visualization:** Creation of impactful visualizations (Adobe Illustrator, ggplot2,)