

Zenan Jiang

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EDUCATION

M.S. in Biotechnology and Bioengineering, Northwest University, Xi'an, Shaanxi, China | 2023 – 2026 (Expected)

- **GPA:** 3.6/4.0
- Core courses: Molecular Biology, Biostatistics, Molecular Biology, Bioinformatics, Genomics, Advanced Biochemistry

B.S. in Biotechnology, Xizang Agricultural and Animal Husbandry University, Nyingchi, Tibet, China | 2019 – 2023

- **GPA:** 3.6/4.0
- Core courses: Biochemistry, Microbiology, Cell Biology, Genetics, Molecular Biology

PUBLICATIONS

Yi, W.* , Lyu, S.* , Chen, J.* , Xie, Q.* , Zhang, L.* , Wu, N.* , Jin, W.* , **Jiang, Z.**, Zhang, J., Zhou, Z., Li, Z., Liu, J., Li, Y., Ma, J., He, Q., Liew, S. W., Liu, S., Sun, W., Fan, L., Ju, F., Zhou, X., Sun, H., Kwok, C.-K., Liu, N., Zhou, Z., Li, L.# , Tang, C.# , & Yan, J.# . HERV-H RNA Forming Non-canonical Triplex Structure with rDNA Clusters Governs Ribosome Biogenesis. *Nature*. (Under revision, *equal contribution, #Correspondence.)

Ning, Y. Q.* , Wang, J.* , Zhang, Y.* , Li, H.* , **Jiang, Z.*** , Su, X., Yang, X., Wu, X., Wei, B., Ying, J., Yan, J.# , & Li, W.# . (2025). Enhancer Reprogramming Reveals the Tumorigenic Role of PTPRZ1 in Lung Squamous Cell Carcinoma. *Advanced science*. (*equal contribution, #Correspondence.)

RESEARCH INTERESTS

I study how human transcription factors shape DNA-binding specificity under epigenomic regulation. My research focuses on high-throughput SELEX and ChIP-based approaches to dissect how chromatin states modulate transcription factor binding specificity.

RESEARCH TRAINING

Department of Biomedical Sciences, City University of Hong Kong

Research Assistant | Feb 2025 – Present (Yan Lab, supervised by Professor Jian Yan)

- Optimized high-throughput experimental workflows through collaborative team efforts.
- Prepared figures and manuscripts for scientific publications and presentations.
- Managed laboratory reagents and consumables, ensuring efficient experiment progression.
- Organized lab meetings and contributed to research seminars.

Retrotransposons Course, Hong Kong University of Science and Technology

Participant | Aug 2025

- Engaged in scientific discussions on advances in retrotransposon-mediated gene regulation and epigenetic control.

The Joint Research Gala, City University of Hong Kong & Sun Yat-sen University

Oral Presenter | Jul 2025

- Presented research findings to faculty and students, demonstrating strong scientific communication.
- Answered in-depth scientific questions and participated in discussions.

Life Sciences Forum, Northwest University**Co-organizer** | Oct 2023

- Coordinated logistics and communication with speakers and attendees.
- Facilitated networking and discussion among participants.
- Promoted event engagement and ensured smooth program execution.

SKILLS AND INTERESTS

Wet Lab Skills:

High-throughput sequencing (ChIP-seq, RNA-seq, NGS library preparation), DNA & protein-based SELEX, gene editing (CRISPR-Cas9 knockout, shRNA/siRNA/ASO knockdown), cell culture (mammalian & embryonic stem cells), molecular biology (protein purification, EMSA, SDS-PAGE, Western blot).

Computational Skills:

Data analysis & workflow automation using Shell scripting and R.

Basic experience with bioinformatics tools for sequencing data processing.

Software Skills: GraphPad Prism, Adobe Illustrator, Microsoft Office, ImageJ, IGV.

Language Skills: Mandarin Chinese (Native), English (IELTS 6.5).

Interests: Music production (melody-based hip-hop beats), coffee brewing, photography, hiking, running.