

# Curriculum vitae

**Name: Xiaoyu Zhang**

## Contact Information

- Phone: (+86) 13069306350
- Email: [sophie@tongji.edu.cn](mailto:sophie@tongji.edu.cn)

## Basic Information

- Gender: Female
- Date of Birth: December 1, 1995
- Political Affiliation: Member of the Communist Party of China
- Marital Status: Unmarried
- Hukou (Household Registration): Yangpu, Shanghai
- Current Residence: Shanghai

## Education Background

- **Postdoctoral Researcher in Biomedical Engineering** (June 2024 - Present)  
Tongji University, Shanghai, China
- **Ph.D. in Biology** (September 2018 - June 2024)  
School of Life Science and Technology, Tongji University, Shanghai, China
- **Bachelor's Degree in Pharmaceutical Preparation (Biopharmaceutical Direction)** (September 2014 - June 2018)  
School of Pharmacy, Henan University, Kaifeng, Henan, China

## Major Courses

Molecular Biology, Oncology, Cell Biology, Pharmacy, Pharmacology, Pharmaceutics, Drug Molecules, Medicinal Chemistry, Pharmacokinetics, Biopharmaceuticals, Drug Analysis, Biochemistry, Cell Biology, Advanced Molecular Biology

## Skills and Certifications

- **Professional Skills:** Certificate for Special Equipment Safety Management and Operation Personnel, Mandarin Proficiency Test Certificate (Level Two, Grade A)
- **English Skills:** CET-6 (College English Test Band 6)
- **Computer Skills:** National Computer Rank Examination Level II (Office), Proficient in MS Office suite, with experience in delivering courses using PowerPoint
- **Awards:** National Scholarship (Top of the Grade) in 2016-2017, National Scholarship (Second in the Grade) for two consecutive years (2014-2016), "Outstanding Student" for three consecutive years (2014-2017), Outstanding Graduation Thesis (Top 10% of the School) in 2017-2018

## Teaching Experience

- **Teaching Assistant for Undergraduate Courses** (September 2018 - Present)  
School of Life Science and Technology, Tongji University
  - Successfully guided over 20 undergraduate students in applying for and winning awards in the "Shanghai College Students Innovation and Entrepreneurship Competition" for five consecutive years.
  - Mentored undergraduate students to achieve "Internet Plus" competition awards at the university level, with four students completing their graduation projects under my guidance, two of whom were admitted to postgraduate programs at Shanghai Jiao Tong University and Tongji University respectively.
  - Independently completed the application and approval process for two courses: a general university course titled "The Magic of Chromosomes" and a graduate-level required course "Advanced Cell Biology," including writing course proposals, syllabi, and presentation materials for course defense.
  - Developed these courses into Shanghai's high-quality courses and the first batch of smart courses at Tongji University, completing the online course PPT production, lesson plan writing, and after-class Q&A.
  - Authored and successfully applied for the "Tongji University Experimental Teaching Reform Special Fund," summarized the course system reform, and published a paper titled "Application of Tailor-made Teaching Models in Higher Education Biomedical Experimental Teaching" in the "Chinese Journal of Continuing Medical Education."
  - Co-authored two textbooks, with "The Magic of Chromosomes" published online by Fudan University Press and "Chromosome Biology" published by Tsinghua University Press.

### **Research and Management Experience**

- **Research Projects** (September 2018 - Present)
  - As a key member, participated in the application and implementation of the National Key Research and Development Program "Chemotherapy Combined with Tumor-specific Killing Virus for Targeted Treatment of Ocular Malignant Tumors." Responsible for filling out the project application, preparing the defense presentation, financial budgeting, project initiation meetings, financial reimbursement, annual summaries, and final audit and closing materials.
  - Fully involved in the application process for National Natural Science Foundation key projects, general projects, Shanghai Natural Science Foundation general projects, and national and Shanghai talent programs.

Capable of independently writing project and talent program applications. Possess strong project management skills, including annual and final project assessments, material organization, text writing, and presentation preparation.

- **Party Building Projects** (September 2022 - Present)
  - Independently completed the application, mid-term assessment, and closing of the Tongji University Party Building Research Project "Exploring a New Mechanism for Talent Evaluation by Grassroots Party Branches under the Background of Breaking the 'Five Onlys'."
  - Designed and completed the research project, forming a research paper titled "Exploring a New Mechanism for Talent Evaluation under the Background of Breaking the 'Five Onlys'," which has been published in the book "Tongji University's Party Building Research in 2023."

### **Strengths and Hobbies**

- **Strengths:**
  - Proficient in using biomedical professional software such as Prism, SPSS, Flow Jo, Image J, SnapGene, and adept at utilizing biomedical databases like UCSC, NCBI, Pubmed for literature search and reading.
  - Capable of writing reports and summaries in both Chinese and English.
  - Skilled in using Office tools for document processing, proficient in PowerPoint for project summary and reporting, with strong logical thinking and summarization abilities.
  - Experienced in writing project applications for National Key R&D Programs, National Natural Science Foundation key and general projects, Shanghai special projects, and independently completing annual summaries and project closing reports and presentations.
  - Undertaken biochemical safety officer and financial reimbursement duties, familiar with financial budgeting and reimbursement, and holding a national certificate for special equipment safety management and operation.
- **Interests:** Debate competitions (served as team captain), badminton, swimming, long-distance cycling, photography (specializing in landscape photography).
- **Activities:** Served as student union president, organized various evening galas, debate competitions, and served as host and chairperson for multiple events. Recognized with honors such as "Outstanding Student," "Outstanding Communist Youth League Cadre," and "Outstanding Party Member."

### **Published Articles**

1. Peptidylprolyl isomerase A guides SENP5/GAU1 DNA-lncRNA triplex generation for driving tumorigenesis. *Nature Communications*. 2024-10-15 (Nature sub-journal, First Author; IF 14.7)  
Authors: Xiaoyu Zhang, Tianyi Ding, Fan Yang, Jixing Zhang, He Zhang.
2. Prohibitin 2 orchestrates lnc noncoding RNA and gene transcription to accelerate tumorigenesis. *Nature Communications*. 2024-9-27 (Nature sub-journal, First Author; IF 14.7)  
Authors: Tianyi Ding, Haowen Xu, Xiaoyu Zhang, He Zhang.
3. Induced dual-target rebalance simultaneously enhances efficient therapeutical efficacy in tumors. *Cell Death Discovery*. 2024-5-23 (Nature sub-journal, First Author; IF 7)  
Authors: Xiaoyu Zhang, Tianyi Ding, He Zhang.
4. Inter3D: Capture of TAD reorganization endows variant patterns of gene transcription. *Genomics Proteomics Bioinformatics*. 2024-5-8 (First Author; IF 11.5)  
Authors: Tianyi Ding, Shaliu Fu, Xiaoyu Zhang.
5. Chromosomal instability-associated MAT1 lncRNA insulates MLL1-guided histone methylation and accelerates tumorigenesis. *Cell Reports*. 2022-12-13 (Cell sub-journal, First Author; IF 9.995)  
Authors: Pan H Wang H Zhang X Yang F Fan X Zhang H.
6. Generation of onco-enhancer enhances chromosomal remodeling and accelerates tumorigenesis.  
Authors: Chai P, Yu J, Jia R, Wen X, Ding T, Zhang X, Ni H, Jia R, Ge S, Zhang H, Fan X. *Nucleic Acids Res*. 2020 Dec 2.
7. I157172, a novel inhibitor of cystathionine  $\gamma$ -lyase, inhibits growth and migration of breast cancer cells via SIRT1-mediated deacetylation of STAT3 (First Author; IF 4.2)  
Authors: Wang L, Shi H, Zhang X, Zhang X, Liu Y, Kang W, Shi X, Wang T. *Oncol Rep*. 2019 Jan.
8. In-depth understanding of higher-order genome architecture in orphan cancer.  
Authors: Ding T, Zhang J, Xu H, Zhang X, Yang F, Shi Y, Bai Y, Yang J, Chen C, Zhang H. *Biochim Biophys Acta Rev Cancer*. 2023 Jun 30.
9. An Artificial CTCF Peptide Triggers Efficient Therapeutic Efficacy in Ocular Melanoma.  
Authors: Wen X, Wang H, Chai P, Fan J, Zhang X, Ding T, Jia R, Ge S, Zhang H