

# Liwen ZHANG

+86 15656052610 | E-mail:zhangliwen@westlake.edu.cn

School of Biology Science

Westlake University, Dunyu Road 600, Hangzhou, Zhejiang P.R. China

## Education

University of Science and Technology of China, Hefei, Anhui, China

Sep. 2016 - Jun.2020

- **Bachelor of Science** in Biology
- **Weighted Average:** 75/100
- **Ranking:** 24/70
- **Two years** experience in **Medical Special Class**
- **Honor:** Excellent Student Scholarship (**Top 25%**)

University of Science and Technology of China, Hefei, Anhui, China

Jun. 2020 - May.2022

- Master candidate
- Quit in 2022

Westlake University, Hangzhou, Zhejiang, China

Sep.2022 – Present

- Originally enrolled in Ph.D. Program, transitioned to a master's program in 2024
- Expected graduate in Sep.2025

## Research Experience

### Genomics & Bioinformatics

#### Westlake University

**Advisor: Prof. Yanxiao Zhang** Lab of Computational and Functional Genomics

Jan.2022 - Present

- Performed integrated analysis of transposon expression level, DNA methylation level, and mutation information for each tumor type in the TCGA data.
- Worked on multi-omics(scRNA+scWGBS) data from a set of HCC patients, identified certain hypo-methylation area regions in certain unique patient lesions, validated two potential DNA methylation regulators in HCC.

### Immunity & Bioinformatics

#### USTC

**Advisor: Prof. Wen Pan** Lab of Tumor Regulation and Epigenetics

June. 2019 - Dec.2021

- Found a new N1-histidine methylation and its interactant, confirmed its function in tumor growth.
- Confirmed the location of a kind of neurotransmitter receptor in gut.
- Collected bladder cancer samples from the affiliated hospital of USTC for single-cell RNA-seq
- Responsible for bioinformatics consulting and analysis for other lab members.

### Synthetic Biology

**Team-USTC, iGEM** - International Genetically Engineering Machine Competition(2017, 2018)

**Advisor: Prof. Haiyan Liu**

Nov. 2016 - Nov. 2019

- Proposed building photo-electro-bio universal reduction reaction catalysis system in *E. coli* (2017)
- Proposed modifying-allowed-protein decorated bacterial cellulose for multi-functional air filter, and in-situ grown ultrathin bacterial cellulose decorated with cellulose binding domain linking targeting protein produced by *E.coli*(2018)
- Presented our results at the international Jamboree in Boston

## Work Experience

Shanghai Guancha Information Technology, Shanghai, China

Sep. 2018 - Dec.2020

- **Part-time video director**
- **Responsible for writing, filming and editing**
- **Main Works:** Yuan's Multiverse Series(Over 50M views and 5M followers in the whole Internet)

## Skills

**Experimental skills:** Molecular cloning, Mouse housekeeping, Cell culture and passage

**Programming and Software:** R, Python, Mathematica, Origin, Markdown, WordPress, Adobe Premiere Pro

**Performance Agent Qualification Certificate** (Verified by the Ministry of Culture and Tourism of the People's Republic of China)

**C1 Driver License** (Verified by the Ministry of Transport of the People's Republic of China)

## Publication

M. Lv\*, D. Cao\*, **L. Zhang**, C. Hu, S. Li, P. Zhang, L. Zhu, X. Yi, C. Li, A. Yang, Z. Yang, Y. Zhu, K. Zhang, Pan, W#.

METTL9 mediated N1-histidine methylation of zinc transporters is required for tumor growth. 2021. **Protein & Cell**.

## Conference and Activities

Teaching Assistant of Microbiology Class

2018 & 2019

Outstanding Student Leaders, USTC

Sep. 2018 & Sep. 2019

Bronze Medal. iGEM Jamboree. (2018.igem.org/Team: USTC)

Oct. 2018

Silver Medal. iGEM Jamboree. (2017.igem.org/Team: USTC)

Oct. 2017

Volunteer for Science and Technology Week host by Chinese Academy Society

May. 2017 & May. 2018

# 张力文

+86 15656052610 | 邮箱:zhangliwen@westlake.edu.cn  
生命科学学院  
浙江省杭州市西湖区墩余路 600 号西湖大学

## 教育经历

中国科学技术大学, 中国安徽省合肥市	2016 年 9 月 – 2020 年 6 月
<ul style="list-style-type: none"><li>生物学学士</li><li>加权平均分: 75/100</li><li>年级排名: 24/70</li><li>两年医学英才班经历</li><li>两次获得优秀学生奖学金铜奖(前 25%)</li></ul>	
中国科学技术大学, 中国安徽省合肥市	2020 年 9 月 – 2022 年 5 月
<ul style="list-style-type: none"><li>硕士研究生</li></ul>	
西湖大学, 中国浙江省杭州市	2022 年 9 月至今
<ul style="list-style-type: none"><li>2022 年录取为博士项目, 2024 年转为硕士项目</li><li>预期毕业时间为 2025 年 9 月</li></ul>	

## 研究经历

### 基因组学与生物信息学

#### 西湖大学

导师: 张延晓教授 计算与功能基因组学实验室	2022 年 1 月至今
<ul style="list-style-type: none"><li>整合分析 TCGA 数据库中不同癌症的转录组信息, DNA 甲基化信息,</li><li>整合分析肝癌病人多组学 (单细胞 RNA+单细胞 WGBS+WES) 数据.</li></ul>	

### 免疫学与生物信息学

#### 中国科学技术大学

导师: 潘文教授 肿瘤调控与表观遗传实验室	2019 年 6 月 – 2021 年 12 月
<ul style="list-style-type: none"><li>发现一种新的 N1-组氨酸甲基化及其相互作用物, 证实其在肿瘤生长中的作用。</li><li>证实了一种神经递质受体在肠道中特定的表达分布。</li><li>参与收集膀胱癌样本单细胞 RNA 测序项目。</li><li>负责为其他实验室成员提供生物信息学咨询和分析。</li></ul>	

### 合成生物学

#### 中国科大代表队, iGEM – 国际遗传工程大赛 (2017, 2018)

导师: 刘海燕教授	2016 年 11 月 – 2019 年 11 月
<ul style="list-style-type: none"><li>在大肠杆菌中构建光电生物通用还原反应催化系统(2017)</li><li>在大肠杆菌中构建允许蛋白装饰的可用于空气过滤的细菌纤维素(2018)</li><li>在波士顿的国际大会上展示成果</li></ul>	

## 工作经历

上海观察者信息科技有限公司, 中国上海市	2018 年 9 月-2020 年 12 月
<ul style="list-style-type: none"><li>兼职视频编导</li><li>负责视频的文稿撰写, 拍摄, 后期制作哦</li><li>主要工作: 科技袁人系列(全网播放超过五千万, 粉丝超过五百万)</li></ul>	

## 技能

实验技能: 分子克隆, 实验用鼠养殖, 细胞培养

编程与软件: R, Python, Mathematica, Origin, Markdown, WordPress, Adobe Premiere Pro

演出经纪人资格证

C1 驾照

## 论文

M. Lv\*, D. Cao\*, L. Zhang, C. Hu, S. Li, P. Zhang, L. Zhu, X. Yi, C. Li, A. Yang, Z. Yang, Y. Zhu, K. Zhang, Pan, W#. METTL9 mediated N1-histidine methylation of zinc transporters is required for tumor growth. 2021. *Protein & Cell*.

## 其他活动

微生物学课程助教	2018 & 2019
优秀学生干部, 中国科学技术大学	2018 年 9 月 & 2019 年 9 月
铜牌. iGEM 大会. (2018.igem.org/Team: USTC)	2018 年 10 月
银牌. iGEM 大会. (2017.igem.org/Team: USTC)	2017 年 10 月
志愿者, 中国科学院	2017 年 5 月 & 2018 年 5 月