

Mingzhen Tian

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Education

Shanghai Jiao Tong University(SJTU)

Shanghai, CN, Sept. 2018 - Jul. 2022
(Expected)

B.Sc in Biomedical Science, School of Medicine

- Member of **Zhiyuan Honors Program**, which is an elite program for top 10% talented students.
- GPA: **80.88/100**, ranking: **19/26**
- Core Courses(biology): *Genetics, Biochemistry, Cell Biology, Biological Experiment, Foundations of Disease 1&2, Structure and Function of Human Body, Chemical Principle, Organic Chemistry*
- Core Courses(general): *Data science and application, Python, Introduction to Computer Science, Physics, Calculus 1&2, Linear algebra, Probability Theory and Mathematical Statistics, Signal Processing*

Research Experiences

University Summer Course Program, University of Sydney

Sydney, AU, Jul. 2019-Aug. 2019

Visiting Student

- Biological courses including cell biology, physiology and pathology.
- Basic research skills (literature search, scientific investigation, data processing, scientific plotting, journal club)
- **Best Video** in making a popular science video about mobile phone and cancer. ([watch](#))

State Key Laboratory of Microbial Metabolism, SJTU

Shanghai, CN, Aug. 2019 - Jul. 2020

Undergraduate Researcher, advised by [Prof. Wei Ma](#)

- Research topic: Rapid Detection of Pathogenic Bacteria Based on Whole Genome Sequence.
- **Excellent Project** of the 36th PRP (Participation in Research Program) of SJTU, Chosen as National Undergraduate Innovation and Entrepreneurship Training Program.
- **Silver Award** of China College Student "Internet Plus" Innovation and Entrepreneurship Competition (Shanghai Region)

The International Genetically Engineered Machine (iGEM) 2020 Competition

Shanghai, CN, Feb. 2020 - Nov. 2020

Member of Team: SJTU-BioX-Shanghai

- Research topic: Directed Evolution and Rational Design of Cas9 to Improve Its Fidelity on Specific Gene. ([project wiki](#))
- **Global Silver Medal**
- In charge of website design and video editing.

Key Laboratory of Pediatric Hematology and Oncology Ministry of Health, Shanghai Children's Medical Center, SJTU

Shanghai, CN, Oct. 2019 - Present

Undergraduate Researcher, advised by [Prof. Bin-Bing S. Zhou](#)

- Research topic: Resistance mechanism and genome instability of ALL.
- Complete a review article entitled of "Genomic Instability and Therapeutic Potential of Leukemia"

Publications

Microbe Characteristic DNA Sequence Analysing Software

CPCC

Software Copyrights

Bo Cao, Wei Ma*, lingyun Xu, Jihua Xiao, Song Xue, **Mingzhen Tian**, Shanghao Zhang, Xiang Fu

Conserved Regions of Microbial DNA Sequences Analysing Software

CPCC

Software Copyrights

Bo Cao, Wei Ma*, lingyun Xu, Jihua Xiao, Song Xue, **Mingzhen Tian**, Shanghao Zhang, Xiang Fu

New anti-tumor mechanism of ω -3 polyunsaturated fatty acids — inhibiting *Fusobacterium nucleatum* adherence to host cells ([link](#))

Microbiology China

Research

Qelger Bao, Sadia Nawab, Shuxuan Fan, Bo Cao, Yuxin Li, **Mingzhen Tian**, Shanghao Zhang, Wei Ma*, Zixin Deng*

Honors & Awards

SCHOLARSHIP

2018	Zhiyuan Honorary Scholarship (top 10%)	SJTU
2019	Zhiyuan Honorary Scholarship (top 10%)	SJTU
2019	Academic Excellence Scholarship (B- class)	SJTU
2019	Sunshine Leader Scholarship of Zhiyuan College (second prize)	SJTU

COMPETITION

2019	Popularity Award/Excellent Works Award (Animation) of The third SJTU Network Culture Festival	SJTU
2020	Silver Award of China College Student "Internet Plus" Innovation and Entrepreneurship Competition	Shanghai Region
2020	Global Gold Medal in The International Genetically Engineered Machine (iGEM) 2020 Competition	iGEM Foundation
2020	Second Prize in Contemporary Undergraduate Mathematical Contest in Modeling (CUMCM)	Shanghai Region

Extracurricular Activity

Student Union of Zhiyuan College

Jun. 2019 - Jun. 2020

Deputy Director of the Publicity Center

- Be responsible for all the publicity work in the student union.
- Director of graphic design and video production.

Miscellaneous

- Professional skills: Dissection of mice, Simple Data Analysis, Molecule Clone, Western Blot, Cell Culture, Machine Learning, Image Signal Processing, RNA-seq.
- Computer skills: Matlab, python, R, HTML/CSS/JavaScript, Microsoft office, Adobe Series software, etc.
- Language: Mandarin (Native), English (Fluent) , CET 6: have passed.
- Hobbies: Graphic Design, Animation Production, Photography, Music (Sing & Instruments).