

Mingzhen Tian

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Education

Shanghai Jiao Tong University(SJTU)

Ph.D. Student in Biomedical Engineering, Institute of Medical Robotics

- Advised by [FREng Prof. Guangzhong Yang](#)

Sept. 2022 - Present

Shanghai, CN

Shanghai Jiao Tong University(SJTU)

B.Sc in Biomedical Science, School of Medicine

- Member of **Zhiyuan Honors Program**, which is an elite program for top 10% talented students.
- Ranking: **4/26** (comprehensive performance)

Sept. 2018 - Jul. 2022

Shanghai, CN

University of Sydney

Visiting Student

- University Summer Course Program

Jul. 2019-Aug. 2019

Sydney, AU

Research Interests

Micro/Nano robotics fabrication, Brain drug delivery, Two-photon polymerization fabrication.

Experiences

State Key Laboratory of Microbial Metabolism, SJTU

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)

Aug. 2019 - Jul. 2020

Shanghai, CN

The International Genetically Engineered Machine (iGEM) 2020 Competition

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**

Feb. 2020 - Nov. 2020

Shanghai, CN

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

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

- Research topic: Chemotherapy drug resistance in MMR-deficient B cell-acute lymphoblastic leukemia

Oct. 2019 - Present

Shanghai, CN

Publications

Tian, M., Ma, Z.-C., Han, Q., Suo, Q., Zhang, Z., Han, B. (2022). **Emerging applications of femtosecond laser fabrication in neurobiological research.** *Frontiers in Chemistry*, 10. ([link](#))

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	Third Prize of The First SJTU Undergraduate Life Science Innovation Competition	<i>SJTU</i>
2020	Silver Award of China College Student Internet Plus Innovation and Entrepreneurship Competition	<i>Shanghai Region</i>
2020	Global Silver Medal in The International Genetically Engineered Machine (iGEM) 2020 Competition	<i>iGEM Foundation</i>
2020	Second Prize in Contemporary Undergraduate Mathematical Contest in Modeling (CUMCM)	<i>Shanghai Region</i>
2020	First Prize of Thesis Report in The 4th Medical Sail Biomedical Science Innovation Forum	<i>School of Medicine</i>
2021	Excellent Experiment Award of Thesis Report in The 6th Medical Sail Innovation Practice Competition	<i>School of Medicine</i>

Other Experience

Student Union of Zhiyuan College

Jun. 2019 - Jun. 2020

Deputy Director of the Publicity Center

- Director of graphic design and video production.