

Xufan Gao

Junior in Chemical Biology
at Xianjiaotong University

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EDUCATION

- 2019.7 – 2019.8 **International Undergraduate Summer Enrichment Program (IUSEP) in Math**
SUMMER SCHOOL IN APPLIED MATH
Department of Mathematical and Statistical Sciences
📍 *University of Alberta, Canada*
- 2018 – Present **Bachelor of Science (Chemical Biology)**
HONOURS SCIENCE PROGRAM
GPA: 3.96/4.3 (SCORE: 91.96/100)
School of Life Science and Technology
📍 *Xianjiaotong University, China*

RESEARCH PROJECTS

Research Interests	Bioinformatics & Machine Learning Biological Mathematical Models Biochemistry & Molecular Biology
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Modelling Leader of the *International Genetically Engineered Machine Competition* 🏆 2020.3 – PRESENT

- A synthetic biology competition held by MIT
- My research focuses on modelling and analyzing 1) the growth of a bi-microbe system with limited resources; 2) multiple-factor regulation of a suicidal gene; 3) their combined effect on exopolysaccharide production.
- Supervised by Prof. Xiaoyun Lu, *Xianjiaotong University*

Research on Using Machine Learning to Predict the Risk of Type 2 Diabetes 🏆 2020.7 – PRESENT

- *Undergraduate Training Programs for Innovation and Entrepreneurship*; Major scientific and technological projects in Xiaoshan District, Hangzhou
- Used gene sequence to predict the risk of type 2 diabetes. Built a deep RNN model to solve a binary classification problem.
- Supervised by Prof. Yan Guo & Tielin Yang, *Xianjiaotong University*

CERTIFICATES

- Deep Learning Specialization, **Coursera**
Mastered deep learning from its foundations (neural networks) to its industry applications (Computer Vision, Natural Language Processing, Speech Recognition, etc.)

AWARDS

- 2019 **School-level First Class Scholarship**
2018-19 academic year, ranked 2/40
Xianjiaotong University
- 2020 **Honorable Mentioned, MCM**
Problem C (big data)
Mathematical Contest in Modelling, USA
- 2019 **Sanbafule Second Class Scholarship**
an enterprise scholarship, 2018-19 academic year
Xianjiaotong University
- 2019 **School-level Outstanding Student**
2018-19 academic year
Xianjiaotong University

ADVANTAGES AND SKILLS

Subject basis	expertly proficient at chemistry outstanding math and physics grades
Programming	C, C#, MATLAB, Python
Typesetting	skilled in \LaTeX , markdown
Language	Mandarin Chinese (Native) English (CET-4:534; CET-6:496)

CAMPUS ACTIVITIES

- 2019.8 – 2020.6 **Chief of Study Department, Academic Counseling Center**
A student organization to help with others' schoolwork, write handbooks, hold study-related activities and lectures.
Link: <https://qyxf.site>
Tsien Hsue-shen College, Xianjiaotong University
- 2019.9 – 2019.12 **A Study on Friction Oscillator, a Classic Physical Model**
A seminar in the course *University Physics*
Designed a novel friction oscillator variant and simulated its motion with MATLAB
Xianjiaotong University
- 2018.12 & 2019.12 **Mixed Basketball Game**
Tsien Hsueshen College, Xianjiaotong University