

TINGLONG FENG

School of Health Science Center
Xi'an Jiaotong University

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ACADEMIC INTERESTS

Astrophysics, theoretical physics, biophysics

EDUCATION

No.1 Middle School Affiliated to Central China Normal University

- Senior high school (2016 - 2019).

Xi'an Jiaotong University

- B.S., Clinic Medicine (2019 - 2024).
- GPA for **all mathematics, physics and programming courses** (up to now): 3.51/4.30 or 87.02/100, including

Main Courses	Credits	Grades
Quantum Mechanics	4	89
Thermodynamics and Statistical Physics I	4	94
Quantum Field Theory	3	A
Introductory General Relativity	2	A
Introduction to Group Theory	2	92

PUBLICATIONS AND PREPRINTS

Preprints

1. **Holographic Approach to Neutron Stars.** submitted. [preprint](#)

RESEARCH EXPERIENCE

Graphene Production

- Credit: First author
- Supervisor: [Prof. Wei Wei](#) (XJTU)
- Time: September 2019 - May 2021
- State: Submitted to attend XJTU 'Tengfei Cup' Technology Innovation Competition
- Abstract: Innovative electrochemical exfoliation for high-quality graphene production.
- Detail: See [this website](#)

Health Economics Modelling of Infectious Disease

- Credit: First author
- Supervisor: Prof. Fan Zhang (XJTU)
- Time: May 2020 - May 2021
- State: Submitted to attend XJTU 'Tengfei Cup' Technology Innovation Competition
- Abstract: A new mathematical model to evaluate utilities of different ways to prevent infectious disease such as COVID-19.
- Detail: See [this website](#)

¹Updated January 24, 2024

INVITED TALKS

1. *Introduction to 2019-nCoV*. online, February 19, 2020, Talk. [recording](#).

SEMINARS

Analytical Mechanics Seminars

- Time: April 2020
- Role: Host
- Content: [Website](#), [recording](#)
- Reference: Landau Vol. 1

Classical Electrodynamics Seminars

- Time: February 2021
- Role: Host
- Content: [Website](#), [recording](#)
- Reference: Landau Vol. 2

Quantum Mechanics Seminars

- Time: April 2021
- Role: Host
- Content: [Website](#), [recording](#)
- Reference: Landau Vol. 3 and Dirac's Principle of QM

ORGANIZATION

United Academic Forum of Basic Science for Undergraduates

Developed and co-organized this communication platform designed for undergraduates from various universities, fostering collaboration and engagement in basic science research. See [this website](#).

- December 2020: Created 'inter-university forum of science' with undergraduates from USTC and NJU, co-organized the first research experience sharing activities. [website](#)
- February 2021: Co-organized 2021 winter seminars. Invited undergraduates from SJTU and UCAS to join the forum. [website](#)
 - [General Relativity Seminar](#). Host: [Qinxun Li](#) (undergraduate from USTC, current PhD student in Utah university)
 - [Statistical Mechanics Seminar](#). Host: Tingjun Zhang (undergraduate from NJU, current PhD student in Rice university), etc.
 - [Electrodynamics Seminar](#). Host: [Me](#).
- May 2021: Formalized 'inter-university forum of science' and changed its name to United Academic Forum of Basic Science for Undergraduates.
- August 2021: Co-organized the second research experience sharing activities. [website](#)
- September 2021 – February 2022: Held the position of the Executive Secretary-General of the Council of United Academic Forum of Basic Science for Undergraduates. [website](#)
 - Organized 2022 winter seminars
 - * [Electrodynamics Seminar](#). Host: [Xiaotian Feng](#), [Jingyuan Wang](#) (undergraduates from XJTU)

OUTREACH

- September 2020 – August 2021: Staff of [Scholastic Guidance Center of Qian Xuesen Honors College, Xi'an Jiaotong University](#)
- Autumn 2021: Deputy editor-in-chief of [Journal of Zhufeng](#)
- September 2020 – : Peer reviewer of *Journal of Zhufeng*

COMPUTING

Familiar with C++, MATLAB, Mathematica

LANGUAGE

Fluent in English (CEFR C1), capable of speaking a little Quenya ([my Quenya learning notes](#))