

TINGLONG FENG

School of Health Science Center
Xi'an Jiaotong University

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ACADEMIC INTERESTS

Compact object, cosmology, galaxy evolution

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 |
|--|---------|--------|
| Thermodynamics and Statistical Physics I | 4 | 94 |
| Quantum Mechanics | 4 | 89 |
| 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

In-in Formalism for Pseudo-Hermitian Systems

- Supervisor: Prof. Siyi Zhou (Chongqing University)
- Time: January 2024 - present
- State: in preparation (will submit to arXiv soon)
- Abstract: We develop the in-in formalism to calculate cosmological correlation functions for pseudo-Hermitian systems.
- Detail: see [this website](#)

Graphene Production

- Supervisor: [Prof. Wei Wei](#) (Xi'an Jiaotong University)
- 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](#)

¹Updated March 27, 2024

Health Economics Modelling of Infectious Disease

- Supervisor: Prof. Fan Zhang (Xi'an Jiaotong University)
- 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](#)

INVITED TALKS

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

ORGANIZATION

Theoretical Physics Seminars

- March 2024: Host of Astrophysics Seminars (reference: *Weinberg's Lectures on Astrophysics*, seminar [website](#), [recording](#))
- April 2021: Host of Quantum Mechanics Seminars (reference: *Landau Vol. 3* and *Dirac's Principle of QM*, seminar [website](#), [recording](#))
- February 2021: Host of Classical Electrodynamics Seminars (reference: *Landau Vol. 2*, seminar [website](#), [recording](#))
- April 2020: Host of Analytical Mechanics Seminars (reference: *Landau Vol. 1*, seminar [website](#), [recording](#))

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](#))