Tinglong Feng

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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

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 undergrauadtes form 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, Python

LANGUAGE

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