

Yuanzhu Huang

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Education

Fudan University , Shanghai, China Master's degree in Theoretical Physics Master Advisor: Yang Zhou GPA: 3.58/4.0	Sept. 2021 - June 2024 (expected)
Sun Yat-sen University , Guangzhou, China Bachelor's degree in Physics GPA: 3.9/4.0; Rank:10/85 Thesis Title: <i>On General Properties of Analogue Gravity</i> Thesis Advisor: Jia-Rui Sun	Sept. 2017 - June 2021

Teaching Experience

Teaching assistant in Thermodynamics <ul style="list-style-type: none">Lecturer: Yuanbo Zhang; Number of Students: 76Conducted bi-weekly tutorial sessions (also wrote lecture notes for tutorial sessions)Evaluated assignmentsReceived an "Outstanding" evaluation as a Teaching Assistant	Feb. 2023 - June 2023
Teaching assistant in Classical Mechanics <ul style="list-style-type: none">Lecturer: Zhifang Lin; Number of Students: 129Held paper presentationsEvaluated assignmentsReceived an "Outstanding" evaluation as a Teaching Assistant	Sept. 2021 - Jan. 2022

Research Experience

Study of Symmetry-Resolved Entanglement of CFT <ul style="list-style-type: none">Supervisor: Yang ZhouExtracted information from symmetry-resolved entanglement (Rényi) entropy at large charge limit	Sept. 2023 - Present
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Research Interests

Information and entanglement entropy
Holographic entanglement entropy; Symmetry-resolved entanglement

Renormalization group flows and Critical Phenomena
Percolation; Schramm–Loewner evolution; c -theorem

Other subjects where physics can get combined with mathematics amazingly...

Awards and Honors

First Prize Scholarship at Sun Yat-sen University (Top 5%)	2020
Wanglaoji Corporate Scholarship (Top 2%)	2020
Frist Prize in <i>The 4th South China Astronomy Contest for University Students</i>	2020
First Prize in the Preliminary Round of the <i>11th National College Student Mathematics Competition</i> (Non-Mathematics Major Category)	2019
Third Prize Scholarship at Sun Yat-sen University	2019

Academic Activities

Reading Seminar

Fudan University

My talks: *Symmetry-Resolved Entanglement Entropy***Interuniversity Journal Club**

Online

My talks: *Shannon/von Neumann Entropy and Entanglement***Summer School**

ShanghaiTech University

*Frontiers in Theoretical High Energy Physics***Joint Journal Club**

Fudan University

Talking about different topics informally

Skills

Languages

Mandarin Chinese (Native), Sichuanese (Native), Cantonese (Fluent), English (Fluent; IELTS: 7.0)

Coding

Python, Mathematica, HTML