

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 limitTried to understand symmetry-resolved quantity using holography	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

Third Prize Scholarship at Sun Yat-sen University

2018

Academic Activities

Reading Seminar

Fudan University

My talks: *Symmetry-Resolved Entanglement Entropy*

Inter-university 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