

Yuanzhu Huang

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Website: [Yuenzuk](#)

Education

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|---|-----------------------------------|
| 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

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| 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

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| 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 limitExplored more entanglement quantities in symmetry resolutionTried to understand symmetry-resolved quantities 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 may get combined with mathematics amazingly...

Awards and Honors

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| 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