

# Yuanzhu Huang

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## Education

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<b>Fudan University</b> , Shanghai, China Master's degree in Theoretical Physics Master Advisor: <a href="#">Yang Zhou</a> GPA: 3.58/4.0	Sept. 2021 - June 2024 (expected)
<b>Sun Yat-sen University</b> , 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: <a href="#">Jia-Rui Sun</a>	Sept. 2017 - June 2021

## Teaching Experience

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<b>Teaching assistant in <a href="#">Thermodynamics</a></b>	Feb. 2023 - June 2023
<ul style="list-style-type: none"><li>• Lecturer: <a href="#">Yuanbo Zhang</a>; Number of Students: 76</li><li>• Conducted bi-weekly tutorial sessions (also wrote <a href="#">lecture notes</a> for tutorial sessions)</li><li>• Evaluated assignments, enhancing their understanding basic principles</li><li>• Received an “Outstanding” evaluation as a Teaching Assistant</li></ul>	
<b>Teaching assistant in Classical Mechanics</b>	Sept. 2021 - Jan. 2022
<ul style="list-style-type: none"><li>• Lecturer: Zhifang Lin; Number of Students: 129</li><li>• Held paper presentations of students, talked with them and evaluted their presentations</li><li>• Evaluated assignments, enhancing their understanding basic principles</li><li>• Received an “Outstanding” evaluation as a Teaching Assistant</li></ul>	

## Research Experience

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<b>Study of Symmetry-Resolved Entanglement in CFT and Holography</b>	Sept. 2023 - Present
<ul style="list-style-type: none"><li>• Supervisor: <a href="#">Yang Zhou</a></li><li>- Extracted information from symmetry-resolved entanglement (Rényi) entropy at large charge limit</li><li>- Explored more entanglement quantities in symmetry resolution</li><li>- Tried to understand symmetry-resolved quantities using holography</li></ul>	

## Research Interests

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<b>Information and Entanglement Entropy</b> Holographic entanglement entropy; Symmetry-resolved entanglement
<b>Critical Phenomena and Renormalization Group Flows</b> Percolation; Schramm–Loewner evolution; $c$ -theorem
<b>Other subjects where physics may get combined with mathematics amazingly...</b>

## Awards and Honors

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

Third Prize Scholarship at Sun Yat-sen University

2019

Third Prize Scholarship at Sun Yat-sen University

2018

## Academic Activities

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### 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

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### Languages

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

### Coding

Python, Mathematica, HTML