

Yuanzhu Huang

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Website: [Yuenzuk](#)

Education

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

Teaching Experience

- Teaching assistant in Thermodynamics** Feb. 2023 - June 2023
- Lecturer: [Yuanbo Zhang](#); Number of Students: 76
 - Conducted bi-weekly tutorial sessions (also wrote [lecture notes](#) for tutorial sessions)
 - Evaluated assignments, enhancing their understanding basic principles
 - Received an "Outstanding" evaluation as a Teaching Assistant
- Teaching assistant in Classical Mechanics** Sept. 2021 - Jan. 2022
- Lecturer: Zhifang Lin; Number of Students: 129
 - Held paper presentations of students, talked with them and evaluated their presentations
 - Evaluated assignments, enhancing their understanding basic principles
 - Received an "Outstanding" evaluation as a Teaching Assistant

Research Experience

- Study of Symmetry-Resolved Entanglement in CFT and Holography** Sept. 2023 - Present
- Supervisor: [Yang Zhou](#)
 - Extracted information from symmetry-resolved entanglement (Rényi) entropy at large charge limit
 - Explored more entanglement quantities in symmetry resolution
 - Tried to understand symmetry-resolved quantities using holography

Research Interests

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

Critical Phenomena and Renormalization Group Flows
Percolation; Conformal manifold; c -theorem

Other subjects where physics may 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 *The 4th South China Astronomy Contest for University Students*** 2020
- First Prize in the Preliminary Round of the *11th National College Student Mathematics Competition* (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