

SHANGJIE ZHOU

+1-765-543-7604 ◇ ZhouShangjie@purdue.edu ◇ zhou-shangjie.com

Education

Purdue University

Ph.D. in Physics, Department of Physics and Astronomy

Sept. 2023 – Present
West Lafayette, IN, U.S.A.

Wuhan University

B.S. in Physics, School of Physics and Technology & Hongyi Honor College
Hongyi Honor Program

Sept. 2019 – June 2023
Wuhan, Hubei, China

Research Experience

Gravitational Lensing Group Undergraduate Research

May 2021 – Jun. 2023

↔ Prof. Junji Jia

School of Physics and Technology, Wuhan University

- Literature reading.
- Studying gravitational lensing effect using perturbative method.
- General relativity seminar.

Scattering Amplitude Group Undergraduate Research

Nov. 2021 – Jun. 2022

↔ Prof. Yi-Jian Du

School of Physics and Technology, Wuhan University

- Literature reading.
- Studying scattering amplitudes from the perspective of *color-kinematic duality*.
- Quantum field theory seminar.

Holographic Entanglement Entropy Group Research Assistant

Jul. 2022 – Jun. 2023

↔ Prof. Qiang Wen

Shing-Tung Yau Center and School of Mathematics, Southeast University

- Literature reading.
- Studying Island formula in Information Paradox.

Publications

- [1] S. Zhou, M. Chen and J. Jia, *Effect of electric interaction on the deflection and gravitational lensing in the strong field limit*, *Eur. Phys. J. C* **83** (2023) 883, [arXiv:2203.05415 \[gr-qc\]](#).
- [2] D. Basu, Q. Wen and S. Zhou, *Entanglement Islands from Hilbert Space Reduction*, [arXiv:2211.17004 \[hep-th\]](#).