

SHANGJIE ZHOU

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Education

Wuhan University

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

Sept. 2019 – June 2023 (expected)

Hubei, China

Research Experience

Gravitational Lensing Group Undergraduate Research

May 2021 – Present

↔ 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 – Present

↔ 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 Entangle Entropy Group Research Assistant

Jul. 2022 – Present

↔ Prof. **Qiang Wen**

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

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

Publications

- [1] **Shangjie Zhou**, M. Chen and J. Jia, *Effect of electric interaction on the deflection and gravitational lensing in the strong field limit*, [arXiv:2203.05415](https://arxiv.org/abs/2203.05415) [gr-qc].

Awards

Merit-Based Second Class Scholarship

Oct. 2021

Wuhan University

Hongyi Academic Scholarship

Oct. 2020

Hongyi Honor College

Projects & Extracurriculars

Seminars on Geometry, Topology and Physics Co-organizer

Jan. 2022 – Present

- Weekly seminar on geometry and topology following the book *Geometry, Topology and Physics* by Mikio Nakahara.
- Notes available online (under construction): <https://physicswhu.github.io/Nakahara-Notes>.

Technical Skills

Programming Languages

C, Python, L^AT_EX

Tools & Software

MATLAB, Wolfram Mathematica

Languages

Mandarin (native), English (professional)

TOEFL

100

GRE

V 154+ Q 170+ AWA 3.5

Selected Course Work

Mathematics

Calculus
Linear Algebra
Probability Theory
Ordinary Differential Equation

Physics

Classical Mechanics
Statistical Physics
Electrodynamics
Quantum Mechanics

Physics

Solid State Physics
Particle Physics
Advanced Quantum Mechanics
Quantum Field Theory

Last updated on: November 22, 2022