

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

↔ Prof. Junji Jia

May 2021 – Present

Wuhan University

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

Scattering Amplitude Group Undergraduate Research

↔ Prof. Yi-Jian Du

Nov. 2021 – Present

Wuhan University

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

Publications

- [1] Shangjie Zhou, M. Chen and J. Jia, *Effect of electric interaction on the deflection and gravitational lensing in the strong field limit*, **2203.05415**.

Awards

Merit-Based Second Class Scholarship

Wuhan University

Oct. 2021

Hongyi Academic Scholarship

Hongyi Honor College

Oct. 2020

1st prize in the 35th Chinese Physics Olympiad (Jiangxi Province)

Top 50 in 29340 participants.

Ministry of Education, China

Oct. 2018

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

Chinese (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