



## Yisi Liu

Gender: Male

Age: 21

Academic Interest: Mathematical Physics

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🌐 <https://liuyisi238.github.io/>

## EDUCATION

- **B.Sc. in School of Physics and Astronomy, Sun Yat-sen University(expected)** 2020.9-2024.7  
*Major in Physics* GPA:4.128/5 Rank: 8/123(6.5%)
- **B.Sc. in School of Mathematics(ZhuHai), Sun Yat-sen University(expected)** 2022.9-2024.7  
*Minor in Mathematics and Applied Mathematics* GPA:4.3/5

## ACADEMIC INTEREST AND ACQUIRED KNOWLEDGE

- Academic Interest: Mathematical Physics and Theoretical Physics. Especially interested in quantum gravity. Also interested in QFT and string theory.
- Acquired Physics: Classical Mechanics, Electrodynamics, Statistical Mechanics, Quantum Mechanics, General Gravity
- Acquired Math: ODE, Differential Geometry, Functional Analysis, Real Function, Complex Function.

## SUMMER SCHOOL

- **GRID Summer Camp 2022** 2022.8-2022.9  
*Summer Camp for GRID members, organized by TsingHua University*  
– What I Learned: method of processing GRB data to get energy spectrum and light curve
- **The 3rd Frontier Summer Lectures of Strings, Fields and Holography** 2023.8.21-2023.8.27  
*Organized by Shing-Tung Yau Center of Southeast University*  
– What I Learned: Integrability; Basics on AdS/CFT; Spacetime with cosmological constant.

## SCIENTIFIC RESEARCH EXPERIENCE

- **The Gamma Ray Integrated Detectors(GRID) team of Sun Yat-sen University** 2021.9-2023.1  
*A student project on studying gamma ray burst(GRB), launched by Tsinghua University in 2015.*  
– My Duty: Leader of Theory Group  
– My Work: Studying the theoretical models, Simulating the motion of photons via Geant4, Data processing
- **The Feasibility Analysis of Solar Wind Measurement Using GRID Satellite** 2021.12-2022.12  
*2021-2022 innovation program for college students*  
– My Duty: Leader of the team  
– My Work: Simulating the motion of solar wind particles via Geant4, Designing the detector(GAGG scintillator)

## AWARDS

- 2021 Asia and Pacific Mathematical Contest in Modeling(APMCM), Second Prize
- 2021 The 11th MathorCup College Mathematical Modeling Challenge , First Prize
- 2020-2021 Sun Yat-sen University Outstanding Scholarship, First Prize
- 2021-2022 Sun Yat-sen University Outstanding Scholarship, Second Prize
- 2021 Fourth National College Student Mathematics Competition Online Challenge, First Prize

## SHORT-TERM FUTURE PLAN

1. In the first term of 2023 school year, algebra, topology, PDE in mathematics and QFT, group theory in physics will be learned.
2. In the second term of 2023 school year, I will focus on my two graduation designs and do something with respect to my academic interest.

More detailed information can be found here

