XIHE LIU

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EDUCATION

SHANDONG UNIVERSITY | *Undergraduate in School of Physics*

2021 - Present

 Coursework – Advanced Mathematics, Methods of Mathematical Physics, Theoretical Mechanics, Electrodynamics, Quantum mechanics

RESEARCH INTEREST

Observation ISM & Star formation (particularly within the Central Molecular Zone) using continuum and molecular lines **Simulation** The magnetic field of Star formation region

RESEARCH EXPERIENCE

SHANGHAI ASTRONOMICAL OBSERVATORY, CHINESE ACADEMY OF SCIENCES | Advisor: Xing Lu

2022 - 2023

Analysis of Dense Cores and Filamentary Structures within the CMZ cloud e using ALMA Band 3 & 6

SHANGHAI ASTRONOMICAL OBSERVATORY, CHINESE ACADEMY OF SCIENCES | Advisor: Pakshing Li

2023 - Present

 A New Calibration using Data from a Large-scale, High-resolution Simulation using ORION2 on the Formation of Filamentary Dark Clouds

SKILLS

Language Python (Astropy, Astrodendro, Matplotlib, Pandas), C, MATLAB

Software & Programming VS Code, CASA, CARTA, DS9, Vislt, Mathematica, ORION2

English CET4, CET6, ITLS

Conferences and Presentations

2022 ANNUAL SYMPOSIUM ON MOLECULAR CLOUDS AND STAR FORMATION

August 2022

Participate without Report

SOFIA SCHOOL 2023

Nanjing, China

THE 7TH CHINA SKA SUMMER SCHOOL

Sepetember 2022

2023 SUBMILLIMETER ARRAY INTERFEROMETRY SCHOOL

April 2023

2023 ANNUAL MEETING OF THE CHINESE ASTRONOMICAL SOCIETY

May 2023 Sepetember 2023

Participate without Report

Weihai, China

2023 PKU UNDERGRADUATE ASTRONOMY SYMPOSIUM

September 2023

Oral Presentation

Beijing, China

2023 ANNUAL SYMPOSIUM ON MOLECULAR CLOUDS AND STAR FORMATION

October 2023

Poster (DUET: The Band3 and Band6 Continuum Emission and Dense Cores in the Dust Ridge Cloud 'e')

Chongqing, China

Honors and Awards

Third Prize Chinese undergraduate Astronomical Innovation Contest

Linbridge Scholarship 2023 PKU Undergraduate Astronomy Symposium

First Prize Contemporary Undergraduate Mathematical Contest in Modeling

COMMUNITY INVOLVEMENT

1 | Astro Science Popularization

2021 - 2022

- Teach astronomy popular science lesson to the students of Hongjialou Primary School
 - **2** | Astronomy By the Road

2021 - Present

- · Provide telescope observation and explanations for students at Shandong University
 - 3 | Astrophysics Party

2022 - Present

• Establish the first national astronomical academic community in China (similar to Astrobites) specifically designed for undergraduate students