

XIHE LIU

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EDUCATION

SHANDONG UNIVERSITY

2021- Present

Undergraduate in the Department of Physics

Jinan, China

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

RESEARCH INTEREST

Observation ISM and star formation (particularly within the Central Molecular Zone) using continuum and molecular spectral lines

Simulation The magnetic field of Star formation region

RESEARCH EXPERIENCE

SHANGHAI ASTRONOMICAL OBSERVATORY, CHINESE ACADEMY OF SCIENCES

2022 - 2023

Advisor: Xing Lu

Shanghai, China

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

SHANGHAI ASTRONOMICAL OBSERVATORY, CHINESE ACADEMY OF SCIENCES

2023 - Present

Advisor: Pakshing Li

Shanghai, China

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

SKILLS

Programming Python (NumPy, Astropy, Astrodendro, Matplotlib), MATLAB, ORION2, Mathematica

Astronomy Software CASA, CARTA, DS9, VisIt

CONFERENCES AND PRESENTATIONS

2023 ANNUAL MEETING OF THE CHINESE ASTRONOMICAL SOCIETY

September 2023

Chinese Astronomical Society

Weihai, China

2023 PKU UNDERGRADUATE ASTRONOMY SYMPOSIUM

September 2023

Department of Astronomy, School of Physics, Peking University

Beijing, China

HONORS AND AWARDS

THIRD PRIZE IN SHANDONG PROVINCE

June 2022

Chinese undergraduate Astronomical Innovation Contest

Jinan, China

LINBRIDGE SCHOLARSHIP

September 2023

2023 PKU Undergraduate Astronomy Symposium

Beijing, China

COMMUNITY INVOLVEMENT

PROJECT 1 | Astro Science Popularization

2021 - 2022

- Teaching astronomy popular science lesson to the students of Hongjialou Primary School

PROJECT 2 | Astronomy By the Road

2021 - Present

- Provide telescope observation and explanations for students at Shandong University

PROJECT 3 | Astrophysics Party

2022 - Present

- Organizing students interested in astronomy research to read paper and exchange ideas