

Wang Dong

Email: dongwang@pmo.ac.cn | Homepage: wangdong-dorian.github.io | Nationality: Chinese

EDUCATION

University of Science and Technology of China & Purple Mountain Observatory, Chinese Academy of Sciences	2022 - Present
- MA in Astronomy (Advisor: Chen Xuepeng)	
Anhui University of Technology	2018 - 2022
- BA in Opto-electronic Information Science and Engineering	

Current Research

I am currently researching the physical properties of Molecular Clouds in the Camelopardalis region, covering an angular area of 96 deg^2 (GLON: $147.5^\circ \sim 159.5^\circ$, GLAT: $0^\circ \sim 8^\circ$)

Research includes:

- *Identification of molecular clouds and clumps using GaussPy+ and Acorns for MCs, and FacetClumps for clumps*
- *Measuring distances and compiling detailed property tables for MCs and clumps, including excitation temperature, column density, mass, and virial parameter...*
- *Searching for bubbles, predicting their possible origins*
- *Investigating the possible origin of the Shell MCs by examining their dynamics to determine expansion velocities and searching for potential progenitor sources*
- *Assessing the association of MCs with the Local Bubble, comparing observations with the Local Bubble model to determine if these clouds are part of its shell and considering the implications of fragmentation*

Conferences

- 2023 Annual Conference on Molecular Clouds and Star Formation
- 2024 Annual Conference of MWISP
- Hanhai Rising Star' Graduate Student Academic Forum
- 2024 Annual Conference on Molecular Clouds and Star Formation Poster

Internship

Xuyi station of PMO	2023.04
• Focused on optical techniques for asteroid observation	
Qinghai station of PMO	2023.09
• Specialized in millimeter-wave observations and preliminary data reduction of CO from MWISP	

Award

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| • <i>Merit Student</i> | 2019 |
| • <i>Third Prize in the 'National English Speaking Contest' of the FLTRP Cup at AHUT</i> | 2019 |
| • <i>Second Prize in the Anhui Physics Academic Competition</i> | 2020 |
| • <i>Second Class Scholarship at AHUT</i> | 2020 |
| • <i>National Encouragement scholarship</i> | 2020 |
| • <i>Second Class Scholarship at USTC</i> | 2022 |
| • <i>Second Class Scholarship at USTC</i> | 2023 |

Publications

<i>Properties and Distribution of Molecular Clouds toward Camelopardalis Direction</i>	In Preparation
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Skills

Languages:

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| • <i>English</i> | IELTS-6.5 |
| • <i>Deutsch</i> | Novice |

Programming:

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| • <i>Python</i> | Proficient |
| • <i>C Language</i> | Competent |
| • <i>GILDAS</i> | Competent |
| • <i>LATEX</i> | Competent |