

Wang Dong

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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*

Internship

- *Xuyi station of PMO, focusing on optical asteroid observations*
- *Qinghai station of PMO, specializing in millimeter-wave observations*

Award

- *Second Prize of Anhui Physics Academic Competition*
- *Second Class Scholarship of USTC (2022)*
- *Second Class Scholarship of USTC (2023)*

Publications

Properties and Distribution of Molecular Clouds in the Camelopardalis Region (In Preparation)

Skills

Languages: English (IELTS: overall band 6.5)

Programming: Python (Proficient), GILDAS (Familiar with CLASS), LATEX (Intermediate)