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## EDUCATION

- **Nanjing University, Ph.D. student** 2022–today  
*School of Astronomy & Space Science, China*
- **Nanjing University, master student** 2020–2022  
*School of Astronomy & Space Science, China*
- **Shandong University, BSc.** 2016–2020  
*School of Physics, China*

## PAPERS

- **First detection of CO isotopologues in a high-redshift main-sequence galaxy: evidence of a top-heavy stellar initial mass function** 2024-08  
*the Astrophysical Journal*  
**CONTRIBUTORS:** Ziyi Guo; Zhi-Yu Zhang; Zhiqiang Yan; Eda Gjergo; Rob Ivison; Allison Man; Xiaoting Fu; Yong Shi.
- **A Spectroscopic survey of biased halos In the Reionization Era (ASPIRE): Impact of Galaxies on the Circumgalactic Medium Metal Enrichment at  $z > 6$  Using the JWST and VLT** 2024-03  
*The Astrophysical Journal Letters*  
**CONTRIBUTORS:** Zou Siwei; Cai Zheng; Wang Feige; Fan Xiaohui; Champagne Jaclyn B.; Hennawi Joseph F.; Schindler Jan-Torge; Farina Emanuele Paolo; Yang Jinyi; Inayoshi Kohei; Bañados Eduardo; Bosman Sarah E. I.; Li Zihao; Lin Xiaojing; Wu Yunjing; Sun Fengwu; Guo Ziyi; Kulkarni Girish; Habouzit Mélanie; Charlot Stephane; Chevallard Jacopo; Connor Thomas; Eilers Anna-Christina; Jiang Linhua; Jin Xiangyu; Kakiichi Koki; Li Mingyu; Meyer Romain A.; Walter Fabian; Zhang Huanian
- **$\alpha$ -enhanced astrochemistry: the carbon cycle in extreme galactic conditions** 2024-01  
*Monthly Notices of the Royal Astronomical Society*  
**CONTRIBUTORS:** Thomas G. Bisbas; Zhi-Yu Zhang; Eda Gjergo; Ying-He Zhao; Gan Luo; Donghui Quan; Xue-Jian Jiang; Yichen Sun; Theodoros Topkaras; Di Li; Ziyi Guo
- **Properties of Dense Molecular Gas along the Major Axis of M82** 2022-07-01  
*The Astrophysical Journal*  
**CONTRIBUTORS:** Fei Li; Zhi-Yu Zhang; Junzhi Wang; Feng Gao; Shanghuo Li; Jing Zhou; Yichen Sun; Ziyi Guo; Shu Liu.

## TALKS

- **Astronomy Talk** 2024-03  
*ORGANIZER: Istituto Nazionale di Astrofisica, Osservatorio di Astrofisica e Scienza dello Spazio di Bologna*  
First detection of CO isotopologues in a high-redshift main-sequence galaxy: evidence of a top-heavy stellar initial mass function
- **Cosmic Threads: Interlinking the stellar Initial Mass Function from Star-birth to Galaxies** 2024-03  
*ORGANIZER: Sexten Center for Astrophysics (SCfA) "Riccardo Giacconi"*  
First detection of CO isotopologues in a high-redshift main-sequence galaxy: evidence of a top-heavy stellar initial mass function
- **The 3rd International Workshop on Origin of Elements and Cosmic Evolution** 2023-11  
*ORGANIZER: Beihang University; International research Institute for Multidisciplinary Science; Institute of Nuclear Astrophysics of China; COSNAP*  
From Stellar yield to Evolution of the Universe – The First detection of CO isotopologues in high-z Main Sequence galaxy: Evidence of a top-heavy IMF
- **Nearby and Distant Star Formation Conference** 2023-07  
*ORGANIZER: Yunnan Observatories, Chinese Academy of Sciences*  
The First detection of CO isotopologues in high-z Main Sequence galaxy: Indications of a Top-heavy IMF
- **Seminar** 2023-03  
*ORGANIZER: Tsinghua University*  
The First detection of CO isotopologues in high-z Main Sequence galaxy: Indicate top-heavy IMF
- **Gravitational Lensing Spring Conference** 2023-03  
*ORGANIZER: Beijing Normal University*  
Constrain the Initial Mass Function in Main-Sequence Galaxies at  $z \sim 2$

ACHIEVEMENTS

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- Tiangong Scholarship2024
- Institute for nuclear astrophysics of China award for young scientist2023  
*For outstanding presentation at the Pre-Workshop of the 3rd International Workshop on ‘Origin of Elements and Cosmic Evolution’.*

TECHNICAL SKILLS AND INTERESTS

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**Languages:** Chinese, English, python  
**Software Skills:** GalCEM, NuPyCEE, CASA  
**Areas of Interest:** Galactic chemical evolution; high-z galaxies; ALMA observations