

## EDUCATION

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### University of Science and Technology of China

M.S. in Astronomy; GPA: 3.81/4.30

Hefei, China

Sep 2021–Current

### University of Science and Technology of China

B.S. in Astronomy

Hefei, China

Sep 2015–Jun 2019

– Thesis: “How Galaxy Structure Affects Star Formation”

## PUBLICATIONS

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1. **Hui Hong**, Huiyuan Wang, H.J. Mo, Enci Wang, “*Central Surface Density versus Velocity Dispersion in Quenching of Satellite Galaxies*”, in preparation for submission to ApJ.
2. Huiling Liu& Yan Lu& **Hui Hong**, Huiyuan Wang, H.J. Mo, Ziwen Zhang, “*Duty Cycle of Radio Galaxies Based on Artificial Intelligence*”, Co-First Author, in preparation for submission to Nature.
3. **Hui Hong**, Huiyuan Wang, H.J. Mo, Ziwen Zhang, Guangwen Chen, Wentao Luo, Tinggui Wang, Pengfei Li, Renjie Li, Yao Yao, Aoxiang Jiang, “*Dynamical Hotness, Star Formation Quenching and Growth of Supermassive Black Holes*”, 2023, ApJ, 954, 183, [[arXiv:2305.02910](https://arxiv.org/abs/2305.02910)].
4. Ziwen Zhang, Huiyuan Wang, Wentao Luo, H.J. Mo, Zhixiong Liang, Ran Li, Xiaohu Yang, Tinggui Wang, Hongxin Zhang, **Hui Hong**, Xiaoyu Wang, Enci Wang, Pengfei Li, Jingjing Shi, “*Hosts and triggers of AGNs in the Local Universe*”, 2021, A&A, 650, A155, [[arXiv:2012.10640](https://arxiv.org/abs/2012.10640)].
5. Pengfei Li, Huiyuan Wang, H.J. Mo, Enci Wang, **Hui Hong**, “*Characteristic Mass in Galaxy Quenching: Environmental versus Internal Effects*”, 2020, ApJ, 902, 75, [[arXiv:2003.09776](https://arxiv.org/abs/2003.09776)].

## RESEARCH EXPERIENCE

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### University of Science and Technology of China

Advisors: Prof. Huiyuan Wang, Prof. Houjun Mo

Hefei, China

Jan 2020–Now

- HI gas properties with ALFALFA, HI-MaNGA, GASS data
- Radio galaxy duty cycle
- Spatially resolved star formation history
- Dynamics, structure and quenching of central and satellite galaxies
- Ionized gas property and its connection with quenching
- Quenching correlation function
- Color difference between satellite and central galaxies

### University of Massachusetts Amherst

Advisor: Prof Houjun Mo

Amherst, USA

Aug 2019–Oct 2019

- Radial profiles of galaxies

### University of Science and Technology of China

Advisor: Prof Huiyuan Wang

Hefei, China

Dec 2018–Jul 2019

- Star formation activities in galaxy bulges and disks
- Building model to construct star formation rate (SFR) and g-r color distributions of galaxies

## TEACHING, ADVISING & SERVICE EXPERIENCE

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- **Teaching Assistant** Fall 2022 & Fall 2023  
*Galactic Astronomy (ASTR5002P.01 at University of Science and Technology of China)*
- **Co-advisor** May 2023-Now  
*Mengkui Zhou (First-year graduate student at USTC)*  
*Huiling Liu (Ungraduate student at USTC)*
- **Organizer** Jan 2023-Now  
*Galaxy and Cosmology Seminar*

## CONFERENCE EXPERIENCE

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- Resolving Galaxy Ecosystems Across All Scales** Hong Kong  
[Oral presentation](#) Dec 2023  
*Dynamics and Quenching of Central and Satellite Galaxies*
- Galaxy Fromation: Observations and Physics of AGN Feedback** Hangzhou  
[Oral presentation](#) Oct 2023  
*Dynamical Hotness, Star Formation Quenching and Growth of Supermassive Black Holes*
- East-Asia AGN Workshop 2023** Kagoshima, Japan  
[Poster](#) Sep 2023  
*Dynamical Hotness, Star Formation Quenching and Growth of Supermassive Black Holes*
- Coevolution and AGN Feedback** Wuhu  
[Oral presentation](#) Sep 2023  
*Dynamical Hotness, Star Formation Quenching and Growth of Supermassive Black Holes*
- Workshop on Cosmology and Galaxy Formation** Shanghai  
[Oral presentation](#) Jun 2023  
*Dynamical Hotness, Star Formation Quenching and Growth of Supermassive Black Holes*

## SCHOLARSHIPS AND AWARDS

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- Ranked No.1 Outstanding Scholarship at USTC 2023
- Ranked No.2 Outstanding Scholarship at USTC 2022
- Ranked No.2 Outstanding Scholarship at USTC 2021
- Wang Shouguan Talent Program in Astronomy 2018-2019
- Ranked No.2 Outstanding Freshman Scholarship at USTC 2015

## SKILLS

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- **Language:** Chinese (native), English (fluent, TOEFL: 102)
- **Programming:** C, C++, Python, Java, Latex, HTML, Mathematica, SQL