

# Qu, Zhijie

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## Education

PhD Candidate, Astrophysics, University of Michigan, 2017-present  
*Advisor: Joel N. Bregman.*

MS, Astrophysics, University of Michigan, 2015-2017.

BS, Astronomy (Graduate with Honors), Peking University, 2011-2015  
*Advisor: Renxin Xu and M.B.N. (Thijs) Kouwenhoven.*

## Scholarships & Awards

2020 - Rackham Dissertation Fellowship, The University of Michigan.

2016-2019 - Rackham Travel Awards, The University of Michigan.

2015 - Weiming Physics Scholarship, School of Physics, Peking University.

2015 - Xingcheng Undergrad Research Forum, First Prize, School of Physics, Peking University.

2014 - NAOCS Scholarship, National Astronomical Observatories, Chinese Academy of Sciences.

2013 - LinBridge Scholarship, Department of Astronomy, Peking University.

## Research Advising

3. Co-adviser: Hang Yang (Grad at PMO, visiting at UMich), 2019-present, *"The Escaping Ionizing Radiation From Galaxies"*.
2. Co-adviser: Xiaodi Yu (Grad at XMU), 2019-present, *"Probing the He II re-Ionization ERA via Absorbing C IV Historical Yield (HIERACHY)"*.
1. Adviser: Ryan Lindley (Undergrad at UMich), 2019-present, *"The C IV Absorption Line Survey of the Milky Way"*.

## Proposals as PI

3. 2019 - Hubble Space Telescope, Cycle 27, 15806, Archival Research (PI), \$97.6k  
"The Rotation, Accretion, and Mass of the Milky Way Warm Gas Disk and CGM"
2. 2018 - Magellan Telescope, Cycle 2018A, 2 nights (PI)  
"Host Galaxies of the Mg x/Ne VIII Absorption Systems: LBQS 1435-0134"
1. 2018 - Magellan Telescope, Cycle 2017B, 3 nights (PI)  
"Host Galaxies of the Mg x/Ne VIII Absorption Systems: PHL 1377"

## Teaching Experience

Graduate Student Instructor - Astro 102: Stars, Galaxies, and the Universe

Graduate Student Instructor - Astro 106: Aliens

## Selected Conferences & Talks

6. Oct. 7th 2019 - WIM Workshop, Contributing Talk, "The Warm Gas in the MW – Rotation, Accretion, and Mass", Green Bank, West Virginia.
5. Aug. 28th 2018 - XXX IAU General Assembly, "The Mass and Column Densities of Galactic Gaseous Halos", Vienna, Austria.
4. Jul. 31st 2018 - CGM Workshop 2018, Contributing Talk, "The Mass and Column Densities of Galactic Gaseous Halos", Northwestern University, Evanston, Illinois.
3. Mar. 6th 2018 - Dinner Talk, "Understanding the Galaxy Evolution with Gaseous Halos", Peking University, Beijing, China.
2. Mar. 1st 2018 - Colloquium Talk, "Understanding the Galaxy Evolution with Gaseous Halos", The Purple Mountain Observatory, Nanjing, China.
1. Jan. 2018 - 231st AAS Meeting, "The Mass and Absorption Columns of Galactic Gaseous Halos", Washington, DC.

## Publications

9. **Zhijie Qu**, Joel N. Bregman, Edmund Hodges-Kluck, Jiang-Tao Li, and Ryan Lindley. 2020 "*The Warm Gas in the MW: A Kinematical Model.*", *ApJ*, 894, 142.
8. **Zhijie Qu**, and Joel Bregman. 2019, "*The Warm Gaseous Disk and the Anisotropic Gaseous Halo of the Milky Way.*", *ApJ*, 880, 89.
7. **Zhijie Qu**, Joel Bregman, and Edmund Hodges-Kluck. 2019, "*Absorption Lines in the Gaseous Halo of NGC 891.*", *ApJ*, 876, 101.
6. **Zhijie Qu**, and Joel Bregman. 2018, "*The Mass and Absorption Columns of Galactic Gaseous Halos II – The High Ionization State Ions.*", *ApJ*, 862, 23.
5. Joel Bregman, Michael Anderson, Matthew Miller, Edmund Hodges-Kluck, Xinyu Dai, Jiang-Tao Li, Yunyang Li, and **Zhijie Qu**. 2018, "*The Extended Distribution of Baryons Around Galaxies.*", *ApJ*, 862, 3.
4. **Zhijie Qu**, and Joel Bregman. 2018, "*The Mass and Absorption Columns of Galactic Gaseous Halos.*", *ApJ*, 856, 5.
3. **Zhijie Qu**, and Joel Bregman. 2016, "*A Hot Gaseous Galaxy Halo Candidate with Mg x Absorption.*", *ApJ*, 832, 189.
2. **Zhijie Qu**, Zhaosheng Li, Yupeng Chen, Shi Dai, Long Ji, Renxin Xu, and Shu Zhang. 2015, "*Analysis of Short Bursts in SGR 1806-20, 1E 1048-5937 and SGR 0501+4516.*", *PASP*, 127, 211.
1. Zhaosheng Li, **Zhijie Qu**, Li Chen, Yanjun Guo, Jinlu Qu, and Renxin Xu. 2015, "*An Ultra Low Mass and Small Radius Compact Object in 4U 1746-37?*", *ApJ*, 798, 56.