# Yong Zheng

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# RESEARCH INTERESTS

Galaxy Evolution, Cosmic Baryon Cycle, Circumgalactic Medium, Spectral Line Analysis Tools: H I 21cm/Optical/Ultraviolet Spectroscopy, Cosmological Hydrodynamic Simulations

# **EDUCATION & PROFESSIONAL APPOINTMENTS**

6. Assistant Professor, Department of Astronomy, Tsinghua University 5. Postdoctoral Researcher, Department of Astronomy University of California, Berkeley	2022- 2021-2022
4. Miller Postdoctoral Fellow, Miller Institute for Basic Research in Science, Department of Astronomy, University of California, Berkeley	2018-2021
3. Ph.D., Astronomy, Columbia University, New York	2018
2. M.A. & M.Phil., Astrophysics, Columbia University, New York	2014
1. B.S., Astronomy, Peking University, Beijing, China	2012
PROPOSALS & GRANTS	
10. PI, "Braving the Storm: Quantifying the Effects of Ram Pressure and Stellar Feedback in the Large Magellanic Cloud",	07/2021
Hubble Space Telescope, Cycle 29, AR 16640	
9. CoI, "Mainly on the Plane: Solving the Milky Way CGM Anomaly	07/2021
with Low-Galactic-Latitude QSOs",	01/2021
Hubble Space Telescope, Cycle 29, GO 16679	
8. CoI, "The Circumgalactic Medium at the Lowest Mass End",	06/2020
Hubble Space Telescope, Cycle 28, GO 16301	,
7. CoI, "What Holds Up the CGM?",	06/2020
Hubble Space Telescope, Cycle 28, AR 16140	•
6. PI, "Probing M33's Multiphase Disk-Halo Interface with Resolved Kinematics", W. M. Keck Observatory, DEIMOS, 2019B, U061, Two Half Nights	09/2019
5. Col, "METAL-Z: Metal Evolution, Transport, and Abundance at Low Metallicity",	07/2019
Hubble Space Telescope, Cycle 27, GO 15880	01/2019
4. PI, "Observations of H I toward the Halo of a Dwarf Galaxy",	11/2018
Green Bank Telescope, 18B-376	11/2010
3. CoI, "QuaStar: The First Unobscured View of the Milky Way's Circumgalactic	10/2018
Medium", Hubble Space Telescope, Cycle 26, GO 15656	-0/-0-0
2. CoI, "Constraining the Origin of A Very High-Velocity Cloud Toward	02/2018
M33 with GBT", Green Bank Telescope, 18B-331	,
1. PI, "Mapping Gas Flows from the Disk to the Circumgalactic Medium",	06/2017
Hubble Space Telescope, Cycle 25, GO 15156	

#### **INVITED TALKS**

19.		
	Conference Talk at "Hot Universe Baryon Surveyor" Workshop, Xiamen, China	10/202
l8.	KITP Group Conversation Initiator & Tutorial Talk,	01-02/202
	"Fundamentals of Gaseous Halos", Virtual KITP Conference	
	Colloquium at Carnegie Observatories, Pasadena, USA	11/202
	Seminar at Galaxy Journal Club, Space Telescope Science Institute, USA	07/202
	Seminar at Galread Extragalactic Discussion Group, Princeton University, USA	06/202
4.	Conference Talk at "The Circumgalactic Medium around Galaxies:	06/202
	When Baryons Invest Halos", Institut Astrophysique de Paris, France	
	Colloquium at Department of Astronomy, Xiamen University, China	12/201
2.	Seminar at Department of Astronomy, Tsinghua University, China	12/201
1.	Colloquium at NASA Ames Research Center, SOFIA Team, USA	10/201
	Colloquium at Department of Astronomy, University of Washington, Seattle, USA	05/201
9.	Seminar at Center for Astrophysics & Space Sciences,	04/201
	University of California San Diego, USA	
8.	Colloquium at Department of Astronomy and Astrophysics,	02/201
	University of California Santa Cruz, USA	
7.	Seminar at Princeton Thunch Seminar, Princeton University, USA	09/201
6.	Seminar at American Museum of Natural History, USA	10/201
5.	Talk at the Arthur M. Wolfe Symposium in Astrophysics,	02/202
	Department of Astronomy and Astrophysics, University of California Santa Cruz	
4.	Seminar at Astrophysical & Planetary Sciences, University of Colorado Boulder, USA	
3.	Seminar at Kavli Institute for Astronomy & Astrophysics, Peking University, China	09/202
2.	Seminar at National Astronomy Observatory of China, China	09/202
1.	Seminar at Department of Astronomy and Astrophysics,	05/201
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	University of California Santa Cruz, USA	,
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<u> </u>	ONTRIBUTED TALKS & CONFERENCES	
		09/2020
	ONTRIBUTED TALKS & CONFERENCES	09/2020
8.	ONTRIBUTED TALKS & CONFERENCES  Conference Talk, "Spring Symposium: The Local Group Assembly and	09/2020
8.	ONTRIBUTED TALKS & CONFERENCES  Conference Talk, "Spring Symposium: The Local Group Assembly and Evolution", Space Telescope Science Institute, USA	,
8. 7.	ONTRIBUTED TALKS & CONFERENCES  Conference Talk, "Spring Symposium: The Local Group Assembly and Evolution", Space Telescope Science Institute, USA Highlighted Conference Talk, "The Cosmic Baryon Cycle: Impact on	,
8. 7. 6.	Conference Talk, "Spring Symposium: The Local Group Assembly and Evolution", Space Telescope Science Institute, USA Highlighted Conference Talk, "The Cosmic Baryon Cycle: Impact on Galaxy Evolution", 7th Annual GMT Community Science Meeting, USA Conference Talk, "What Matter(s) Between Galaxies: Unraveling the Knots in the Cosmic Web", Abbazia di Spineto, Italy	09/2019
8. 7. 6.	Conference Talk, "Spring Symposium: The Local Group Assembly and Evolution", Space Telescope Science Institute, USA Highlighted Conference Talk, "The Cosmic Baryon Cycle: Impact on Galaxy Evolution", 7th Annual GMT Community Science Meeting, USA Conference Talk, "What Matter(s) Between Galaxies: Unraveling the Knots	09/2019
8. 7. 6.	Conference Talk, "Spring Symposium: The Local Group Assembly and Evolution", Space Telescope Science Institute, USA Highlighted Conference Talk, "The Cosmic Baryon Cycle: Impact on Galaxy Evolution", 7th Annual GMT Community Science Meeting, USA Conference Talk, "What Matter(s) Between Galaxies: Unraveling the Knots in the Cosmic Web", Abbazia di Spineto, Italy	09/2019 06/2019
8. 7. 6. 4.	Conference Talk, "Spring Symposium: The Local Group Assembly and Evolution", Space Telescope Science Institute, USA Highlighted Conference Talk, "The Cosmic Baryon Cycle: Impact on Galaxy Evolution", 7th Annual GMT Community Science Meeting, USA Conference Talk, "What Matter(s) Between Galaxies: Unraveling the Knots in the Cosmic Web", Abbazia di Spineto, Italy Lunch Talk at Department of Astronomy, University of California Berkeley, USA	09/2019 06/2019 09/2018
8. 7. 6. 4. 3.	Conference Talk, "Spring Symposium: The Local Group Assembly and Evolution", Space Telescope Science Institute, USA Highlighted Conference Talk, "The Cosmic Baryon Cycle: Impact on Galaxy Evolution", 7th Annual GMT Community Science Meeting, USA Conference Talk, "What Matter(s) Between Galaxies: Unraveling the Knots in the Cosmic Web", Abbazia di Spineto, Italy Lunch Talk at Department of Astronomy, University of California Berkeley, USA Dissertation Talk at 231st AAS Meeting, USA	09/2019 06/2019 09/2018 01/2018
8. 7. 6. 4. 3. 2.	Conference Talk, "Spring Symposium: The Local Group Assembly and Evolution", Space Telescope Science Institute, USA Highlighted Conference Talk, "The Cosmic Baryon Cycle: Impact on Galaxy Evolution", 7th Annual GMT Community Science Meeting, USA Conference Talk, "What Matter(s) Between Galaxies: Unraveling the Knots in the Cosmic Web", Abbazia di Spineto, Italy Lunch Talk at Department of Astronomy, University of California Berkeley, USA Dissertation Talk at 231st AAS Meeting, USA Seminar at Department of Physics, Massachusetts Institute of Technology, USA	09/2019 06/2019 09/2018 01/2018 12/2017
8. 7. 6. 4. 3. 2.	Conference Talk, "Spring Symposium: The Local Group Assembly and Evolution", Space Telescope Science Institute, USA Highlighted Conference Talk, "The Cosmic Baryon Cycle: Impact on Galaxy Evolution", 7th Annual GMT Community Science Meeting, USA Conference Talk, "What Matter(s) Between Galaxies: Unraveling the Knots in the Cosmic Web", Abbazia di Spineto, Italy Lunch Talk at Department of Astronomy, University of California Berkeley, USA Dissertation Talk at 231st AAS Meeting, USA Seminar at Department of Physics, Massachusetts Institute of Technology, USA Seminar at Department of Astronomy & Astrophysics, University of Chicago, USA	09/2019 06/2019 09/2018 01/2018 12/2017 11/2017
8. 7. 6. 5. 4. 3. 2. 1.	Conference Talk, "Spring Symposium: The Local Group Assembly and Evolution", Space Telescope Science Institute, USA Highlighted Conference Talk, "The Cosmic Baryon Cycle: Impact on Galaxy Evolution", 7th Annual GMT Community Science Meeting, USA Conference Talk, "What Matter(s) Between Galaxies: Unraveling the Knots in the Cosmic Web", Abbazia di Spineto, Italy Lunch Talk at Department of Astronomy, University of California Berkeley, USA Dissertation Talk at 231st AAS Meeting, USA Seminar at Department of Physics, Massachusetts Institute of Technology, USA Seminar at Department of Astronomy & Astrophysics, University of Chicago, USA Seminar at Department of Astronomy and Astrophysics,	09/2019 06/2019 09/2018 01/2018 12/2017 11/2017
8. 7. 6. 5. 4. 3. 1.	Conference Talk, "Spring Symposium: The Local Group Assembly and Evolution", Space Telescope Science Institute, USA Highlighted Conference Talk, "The Cosmic Baryon Cycle: Impact on Galaxy Evolution", 7th Annual GMT Community Science Meeting, USA Conference Talk, "What Matter(s) Between Galaxies: Unraveling the Knots in the Cosmic Web", Abbazia di Spineto, Italy Lunch Talk at Department of Astronomy, University of California Berkeley, USA Dissertation Talk at 231st AAS Meeting, USA Seminar at Department of Physics, Massachusetts Institute of Technology, USA Seminar at Department of Astronomy & Astrophysics, University of Chicago, USA Seminar at Department of Astronomy and Astrophysics, University of California Santa Cruz, USA	09/2019 06/2019 09/2018 01/2018 12/2017 11/2017 11/2017
8. 7. 6. 5. 4. 3. 2. 1.	Conference Talk, "Spring Symposium: The Local Group Assembly and Evolution", Space Telescope Science Institute, USA Highlighted Conference Talk, "The Cosmic Baryon Cycle: Impact on Galaxy Evolution", 7th Annual GMT Community Science Meeting, USA Conference Talk, "What Matter(s) Between Galaxies: Unraveling the Knots in the Cosmic Web", Abbazia di Spineto, Italy Lunch Talk at Department of Astronomy, University of California Berkeley, USA Dissertation Talk at 231st AAS Meeting, USA Seminar at Department of Physics, Massachusetts Institute of Technology, USA Seminar at Department of Astronomy & Astrophysics, University of Chicago, USA Seminar at Department of Astronomy and Astrophysics, University of California Santa Cruz, USA Seminar at Department of Astronomy, California Institute of Technology, USA	09/2019 06/2019 09/2018 01/2018 12/2017 11/2017 11/2017
8. 7. 6. 5. 4. 2. 1. 0. 9.	Conference Talk, "Spring Symposium: The Local Group Assembly and Evolution", Space Telescope Science Institute, USA Highlighted Conference Talk, "The Cosmic Baryon Cycle: Impact on Galaxy Evolution", 7th Annual GMT Community Science Meeting, USA Conference Talk, "What Matter(s) Between Galaxies: Unraveling the Knots in the Cosmic Web", Abbazia di Spineto, Italy Lunch Talk at Department of Astronomy, University of California Berkeley, USA Dissertation Talk at 231st AAS Meeting, USA Seminar at Department of Physics, Massachusetts Institute of Technology, USA Seminar at Department of Astronomy & Astrophysics, University of Chicago, USA Seminar at Department of Astronomy and Astrophysics, University of California Santa Cruz, USA Seminar at Department of Astronomy, California Institute of Technology, USA Conference Talk, "In & Out. What Rules the Galaxy Baryon Cycle?"	09/2019 06/2019 09/2018 01/2018 12/2017 11/2017 11/2017
8. 7. 6. 5. 4. 3. 2. 1. 9.	Conference Talk, "Spring Symposium: The Local Group Assembly and Evolution", Space Telescope Science Institute, USA Highlighted Conference Talk, "The Cosmic Baryon Cycle: Impact on Galaxy Evolution", 7th Annual GMT Community Science Meeting, USA Conference Talk, "What Matter(s) Between Galaxies: Unraveling the Knots in the Cosmic Web", Abbazia di Spineto, Italy Lunch Talk at Department of Astronomy, University of California Berkeley, USA Dissertation Talk at 231st AAS Meeting, USA Seminar at Department of Physics, Massachusetts Institute of Technology, USA Seminar at Department of Astronomy & Astrophysics, University of Chicago, USA Seminar at Department of Astronomy and Astrophysics, University of California Santa Cruz, USA Seminar at Department of Astronomy, California Institute of Technology, USA Conference Talk, "In & Out. What Rules the Galaxy Baryon Cycle?" Munich Institute for Astro- and Particle Physics, Germany	09/2019 06/2019 09/2018 01/2018 12/2017 11/2017 11/2017 07/2017
8. 7. 6. 5. 4. 3. 2. 1. 0. 9. 8.	Conference Talk, "Spring Symposium: The Local Group Assembly and Evolution", Space Telescope Science Institute, USA Highlighted Conference Talk, "The Cosmic Baryon Cycle: Impact on Galaxy Evolution", 7th Annual GMT Community Science Meeting, USA Conference Talk, "What Matter(s) Between Galaxies: Unraveling the Knots in the Cosmic Web", Abbazia di Spineto, Italy Lunch Talk at Department of Astronomy, University of California Berkeley, USA Dissertation Talk at 231st AAS Meeting, USA Seminar at Department of Physics, Massachusetts Institute of Technology, USA Seminar at Department of Astronomy & Astrophysics, University of Chicago, USA Seminar at Department of Astronomy and Astrophysics, University of California Santa Cruz, USA Seminar at Department of Astronomy, California Institute of Technology, USA Conference Talk, "In & Out. What Rules the Galaxy Baryon Cycle?" Munich Institute for Astro- and Particle Physics, Germany Conference Talk, "What Matter(s) Around Galaxies: Resolving the Physics of	09/2019 06/2019 09/2018 01/2018 12/2017 11/2017 11/2017 07/2017
8. 7. 6. 5. 4. 3. 2. 1. 0. 9.	Conference Talk, "Spring Symposium: The Local Group Assembly and Evolution", Space Telescope Science Institute, USA Highlighted Conference Talk, "The Cosmic Baryon Cycle: Impact on Galaxy Evolution", 7th Annual GMT Community Science Meeting, USA Conference Talk, "What Matter(s) Between Galaxies: Unraveling the Knots in the Cosmic Web", Abbazia di Spineto, Italy Lunch Talk at Department of Astronomy, University of California Berkeley, USA Dissertation Talk at 231st AAS Meeting, USA Seminar at Department of Physics, Massachusetts Institute of Technology, USA Seminar at Department of Astronomy & Astrophysics, University of Chicago, USA Seminar at Department of Astronomy and Astrophysics, University of California Santa Cruz, USA Seminar at Department of Astronomy, California Institute of Technology, USA Conference Talk, "In & Out. What Rules the Galaxy Baryon Cycle?" Munich Institute for Astro- and Particle Physics, Germany Conference Talk, "What Matter(s) Around Galaxies: Resolving the Physics of the Circumgalactic Medium", Durham University, UK	09/2019 06/2019 09/2018 01/2018 12/2017 11/2017 11/2017 07/2017
8. 7. 6. 5. 4. 3. 2. 1. 0. 9.	Conference Talk, "Spring Symposium: The Local Group Assembly and Evolution", Space Telescope Science Institute, USA Highlighted Conference Talk, "The Cosmic Baryon Cycle: Impact on Galaxy Evolution", 7th Annual GMT Community Science Meeting, USA Conference Talk, "What Matter(s) Between Galaxies: Unraveling the Knots in the Cosmic Web", Abbazia di Spineto, Italy Lunch Talk at Department of Astronomy, University of California Berkeley, USA Dissertation Talk at 231st AAS Meeting, USA Seminar at Department of Physics, Massachusetts Institute of Technology, USA Seminar at Department of Astronomy & Astrophysics, University of Chicago, USA Seminar at Department of Astronomy and Astrophysics, University of California Santa Cruz, USA Seminar at Department of Astronomy, California Institute of Technology, USA Conference Talk, "In & Out. What Rules the Galaxy Baryon Cycle?" Munich Institute for Astro- and Particle Physics, Germany Conference Talk, "What Matter(s) Around Galaxies: Resolving the Physics of the Circumgalactic Medium", Durham University, UK Conference Talk, "Life Cycle of Metals Throughout the Universe:	09/2019 06/2019 09/2018 01/2018 12/2017 11/2017 11/2017 07/2017

5. Conference Talk, "Life Cycle of Gas in Galaxies: A Local Perspective",	09/2015
ASTRON, Dwingeloo, Netherlands	
4. Conference Talk, "The Role of Hydrogen in the Evolution of Galaxies", Malaysia	09/2014
3. Poster at 221st AAS Winter Meeting, USA	01/2013
2. Conference Talk, "Third Korean-Chinese Informal Workgroup on Astro-dynamics	12/2011
for Stars and Galaxies", National Astronomy Observatory of China, China	
1. Conference Talk, "Symposium of Astronomy Undergraduate Students",	09/2011
Kavli Institute for Astronomy and Astrophysics, Peking University, China	

# **ADVISING & TEACHING SERVICE**

7. Research Advisor of Undergraduate R. Zhu, University of California Berkeley	2019-2021
6. Research Co-advisor of Undergraduate H. Cook, Columbia University	2018-2019
5. Research Co-advisor of Undergraduate A. Johnson, Columbia University	Spring 2018
4. Research Co-advisor of Undergraduate L. Li, Columbia University	Summer 2015
3. Lab Observing Instructor, Astronomy Labs I & II, Columbia University	2014-2015
2. Lab Instructor, Stars, Galaxies and Cosmology (W1904), Columbia University	Spring 2014
1. Lab Instructor, Earth, Moon, and Planets (W1903), Columbia University	Fall 2013

# PEER REVIEW SERVICE

- 5. Referee for Nature Astronomy, the Astrophysical Journal, & Monthly Notices of the Royal Astronomical Society
- 4. Panelist for Hubble Space Telescope, Cycle 29
- 3. Panelist for NASA Astrophysics Data Analysis Program
- 2. Reviewer for Future Investigators in NASA Earth and Space Science and Technology Program
- 1. Reviewer for China Telescope Access Program

#### **OUTREACH**

	Invited Guest Speaker at Riverside Astronomical Society, California	07/2021
10.	Co-Leader of the Miller Diversity, Equity, & Inclusion Working Group,	Fall 2020 -
	Miller Institute for Basic Research in Science, University of California Berkeley	Spring 2021
14.	Initiator of the "Meet a Miller Fellow" Outreach Program to Connect	Fall 2020
	High-School Students with Scientists at Miller Institute	
13.	Member of the Astronomy Postdoc Team to Dismantle Anti-Blackness	Fall 2020 -
	Department of Astronomy, University of California Berkeley	Spring 2021
13.	Science Ambassador for the Adopt-A-Class Program to Interact with	Fall 2020
	Students from a K5 Classroom in Bay Area, California	
12.	Invited Guest Speaker for the Mount Tam Astronomy Program, California	08/2020
11.	Guest Speaker for the Berkeley Public Library, California	06/2019
10.	Mentor for Society of Women in the Physical Sciences	Fall 2018
	University of California Berkeley	
9.	Member of the Reading Team Math Program in Bronx, New York to	2017-2018
	Teach Math to Kindergarteners from Low-Income Families Every Friday	
8.	Guest Speaker for Astronomy on Tap in New York	09/2017
7.	Experiment Leader for Girls Science Day at Columbia University	10/2016
6.	Mentor for GOALS for Girls Summer Intensive Program at The Intrepid Museum	2016, 2017
5.	Guest Speaker at Columbia Public Lectures and Stargazing Nights, New York	03/2016

Telescope Volunteer, World Science Festival, Brooklyn Bridge Park, New York
 Mentor for Astronomy Undergraduate Mentoring Program, Columbia University
 Mentor for Astronomy Peer Mentoring Program, Columbia University
 Volunteer for Columbia Public Lectures and Stargazing Nights, New York
 2015-2017
 2012 - 2018

#### REFERENCES

#### • Mary E. Putman

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Professor of Astronomy
Department of Astronomy, Columbia University

#### • Jason X. Prochaska

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Professor of Astronomy Astrophysics

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#### • Daniel Weisz

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#### • Jessica K. Werk

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Associate Professor

Department of Astronomy, University of Washington

#### • Joshua E. G. Peek

jegpeek@stsci.edu

Associate Astronomer, Project Scientist

Data Science Mission Office, Space Telescope Science Institute

# Publication List

#### FIRST-AUTHORED JOURNAL ARTICLES

- Y. Zheng, A. Emerick, M. E. Putman, J. K. Werk, E. N. Kirby, J. Peek, Characterizing the Circumgalactic Medium of the Lowest-Mass Galaxies: A Case Study of IC 1613, 2020, ApJ, 905, 133
- Y. Zheng, M. S. Peeples, B. W. O'Shea, R. C. Simons, C. Lochhass, L. Corlies, J. Tumlinson, B. Smith, R. Augustin, Figuring Out Gas & Galaxies in Enzo (FOGGIE). III. The Mocky Way: Investigating Biases in Observing the Milky Way's Circumgalactic Medium, 2020, ApJ, 896, 143Z.
- Y. Zheng, M. E. Putman, A. Emerick, K. B. W. McQuinn, J. K. Werk, F. J. Lockman, B. D. Oppenheimer, A. J. Fox, E. N. Kirby, J. N. Burchett. *The Circumgalactic Medium of the Isolated Low-Mass Dwarf Galaxy WLM*, 2019, MNRAS, 490, 467Z.
- 4. Y. Zheng, J. E. G. Peek, M. E. Putman, & J. K. Werk. Revealing the Milky Way's Hidden Circumgalactic Medium with the Cosmic Origins Spectrograph Quasar Database for Galactic Absorption Lines, 2019, ApJ, 871, 35.
- 3. Y. Zheng, J. E. G. Peek, J. K. Werk, & M. E. Putman. HST/COS Observations of Ionized Gas Accretion at the Disk-Halo Interface of M33, 2017, ApJ, 834, 179Z.
- 2. Y. Zheng, J. K. Werk, J. E. G. Peek, & M. E. Putman. The Discovery and Origin of A Very-High Velocity Cloud toward M33, 2017, ApJ, 840, 65Z.
- 1. Y. Zheng, M. E. Putman, J. E. G. Peek, & M. R. Joung. The Circumgalactic Medium of the Milky Way is Half Hidden, 2015, ApJ, 807, 103Z.

### SECOND/THIRD-AUTHORED JOURNAL ARTICLES

- 4. M. E. Putman, Y. Zheng, A. M. Price-Whelan, J. Grcevich, E. Tollerud, J. E. G. Peek, *The Gas Content and Stripping of Local Group Dwarf Galaxies*, 2021, ApJ, 913, 53.
- 3. J. X. Prochaska, & Y. Zheng, Probing Galactic Halos with Fast Radio Bursts, 2019, MNRAS, 485, 648P.
- J. E. G. Peek, B. L. Babler, Y. Zheng, S. E. Clark, K. Douglas, E. J. Korpela, M. E. Putman, S. Stanimirovic, S. Gibson, C. Heiles. *The GALFA-HI Survey Data Release* 2, 2018, ApJS, 234, 2P.
- R. de Grijs, C. Li, Y. Zheng, L. Deng, Y. Hu, M. B. N. Kouwenhoven, & J. E. Wicker. Gravitational Conundrum? Dynamical Mass Segregation versus Disruption of Binary Stars in Dense Stellar Systems, 2013, ApJ, 765, 4D, 2013.

# OTHER CO-AUTHORED JOURNAL ARTICLES

- 9. H.V. Bish; J.K. Werk; J. Peek; Y. Zheng; M. Putman, The QuaStar Survey: Detecting Hidden Low-Velocity Gas in the Milky Way's Circumgalactic Medium, 2021, ApJ, 912, 8B
- 8. R. Simons, M. Peeples, J. Tumlinson, B. O'Shea, B. Smith, L. Corlies, C. Lochhaas, Y. Zheng, R. Augustin, D. Prasad, G. Snyder, E. Tollerud, Figuring Out Gas & Galaxies In Enzo (FOG-GIE). IV. The Stochasticity of Ram Pressure Stripping in Galactic Halos, 2020, ApJ, 905, 167.

- Y. Li, M. Gendron-Marsolais, I. Zhuravleva, S. Xu, A. Simionescu, G. Tremblay, C. Lochhass, G. Bryan, E. Quataert, N. Murray, A. Boselli, J. Hlavacek-Larrondo, Y. Zheng, M. Fossati, M. Li, E. Emsellem, M. Sarzi, L. Arzamasskiy, T. Ethan, Direct Detection of Black Hole-driven Turbulence in the Centers of Galaxy Clusters, 2019, ApJ, 889, 1.
- J. K. Werk, K. H. R. Rubin, H. V. Bish, J. X. Prochaska, Y. Zheng, J. M. OMeara, D. Lenz, C. Hummels, & A. J. Deason. The Nature of Ionized Gas in the Milky Way Galactic Fountain, 2019, ApJ, 887, 89W.
- H. Bish, J. K. Werk, J. X. Prochaska, K. H. R. Rubin, J. O'Meara, Y. Zheng, & A. J. Deason, Galactic Gas Flows from Halo to Disk: Tomography and Kinematics at the Milky Way's Disk-Halo Interface, 2019, ApJ, 882, 76B.
- 4. T. Finzell, L. Chomiuk, B. Metzger, F. M. Walter, J.D. Linford, K. Mukai, T. Nelson, J. H. S. Weston, Y. Zheng, J. L. Sokoloski, et al. A Detailed Observational Analysis of V1324 Sco, the Most Gamma-Ray-luminous Classical Nova to Date, 2018, ApJ, 852, 108F.
- J. H. S. Weston, J. L. Sokoloski, B. D. Metzger, Y. Zheng, L. Chomiuk, M. I. Krauss, J. D. Linford, T. Nelson, A. J. Mioduszewski, M. P. Rupen, T. Finzell, & K. Mukai. Non-thermal Radio Emission from Colliding Flows in Classical Nova V1723 Aql, 2016, MNRAS, 457, 887, 2016.
- J. E. G. Peek, R. Bordoloi, H. Sana, J. Roman-Duval, J. Tumlinson, & Y. Zheng. The First Distance Constraint on the Renegade High-Velocity Cloud Complex WD, 2016, ApJ, 828L, 20P.
- M. S. Xiang, X. W. Liu, H. B. Yuan, Z. Y. Huo, Y. Huang, Y. Zheng, H. W. Zhang, B. Q. Chen, H. H. Zhang, N. C. Sun, C. Wang, Y. H. Zhao, J. R. Shi, A. L. Luo, G. P. Li, Z. R. Bai, Y. Zhang, Y. H. Hou, H. L. Yuan, G. W. Li. Relative Flux Calibration for the LAMOST Spectroscopic Survey of the Galactic Anticentre, 2015, MNRAS, 448, 90-103.