Curriculum Vitae – Yong Zheng

Miller Postdoctoral Fellow University of California, Berkeley Department of Astronomy 501 Campbell Hall #3411, Berkeley, CA 94720 yongzheng@berkeley.edu https://yzhenggit.github.io/yongzheng/ ORCID:0000-0003-4158-5116 (Last Update on 02/26/2020)

Research Interests

• Topics: Circumgalactic Medium (CGM),

Baryonic Cycles between Galaxies and CGM,

Interplay between Ram Pressure Stripping and Stellar Feedback,

Time-Resolved Metal Census of Dwarf Galaxies in the Local Group

• Tools: Optical/UV spectroscopy, Radio H I 21cm,

Synthetic CGM observations with cosmological hydrodynamic simulations

EDUCATION & CAREER PATH

4. Miller Postdoctoral Fellow, Miller Institute for Basic Research in Science,	2018-2021
Department of Astronomy, University of California, Berkeley	
3. Ph.D., Astronomy, Columbia University, New York	06/2018
Dissertation: The Cycle of Gaseous Baryons between the Disk and Halo	
Advisors: Mary E. Putman, Joshua E. G. Peek	
2. M.A. & M.Phil., Astrophysics, Columbia University, New York	2014
1. B.S., Astronomy, Peking University, Beijing, China	07/2012

PROPOSALS

6. PI, W. M. Keck Observatory, DEIMOS, 2019B, U061, Two Half Nights	09/2019
Title: Probing M33's Multiphase Disk-Halo Interface with Resolved Kinematics	

5. CoI, Hubble Space Telescope, Cycle 27, GO 15880 (PI Roman-Duval), 77 Orbits 10/2019-10/2022 Title: METAL-Z: Metal Evolution, Transport, and Abundance at Low Metallicity (Z)

4. PI, Green Bank Telescope, 18B-376

11/2018

Title: Observations of H I toward the Halo of a Dwarf Galaxy

3. Co I, Hubble Space Telescope, Cycle 26, GO 15656 (PI Peek), 75 Orbits 10/2018-10/2021 Title: QuaStar: The First Unobscured View of the Milky Way's Circumgalactic Medium

2. Co I, Green Bank Telescope, 18B-331 (PI Denny)

02/2018

Title: Constraining the Origin of A Very High-Velocity Cloud Toward M33 with GBT

1. **PI**, Hubble Space Telescope, Cycle 25, GO 15156, 32 Orbits
Title: Mapping Gas Flows from the Disk to the Circumgalactic Medium

10/2017-10/2020

Advising & Teaching

11. Advisor, R. Zhu, Undergraduate, University of California, Berkeley	Fall 2019-present
Project: Studying Disk-wide Inflows and Outflows in LMC with HST/COS	
10. Advisor, S. L. Denny, Graduate Student, Florida State University	2018-2019
Project: GBT Follow-Up of a Very-High Velocity Cloud Near Wright's Cloud	
9. Co-advisor, H. Cook, Undergrad Summer Research/Thesis, Columbia University	2018-2019
Project: Column Density Comparison of H I in GALFA-H I and HI4PI Surveys	
8. Mentor, Society of Women in the Physical Sciences, UC Berkeley	Fall 2018

7.	Co-advisor, A. Johnson, Undergrad Research, Columbia University Project: H I limits of Local Group Dwarf Galaxies in GALFA-H I	Sp	oring 2018
6.	Co-advisor, L. Li, Undergrad Summer Research, Columbia University	Sum	mer 2015
	Project: H I Fiber Structures Detected in GALFA-H I		
	Lab Observing Instructor, Astronomy Labs I & II, Columbia University	Fall 2014-	
	Lab Instructor, Stars, Galaxies and Cosmology (W1904), Columbia University	_	ring 2014
	Lab Instructor, Earth, Moon, and Planets (W1903), Columbia University		Fall 2013
	Mentor, Astronomy Undergraduate Mentoring Program, Columbia University		2015-2017
1.	Mentor, Astronomy Peer Mentoring Program, Columbia University	2	2015-2017
T^{A}	ALKS & CONFERENCES		
34.	Invited Conference Talk, The Circumgalactic Medium around Galaxies: When Invest Halos, Annual IAP Colloquium, Paris	n Baryons	06/2020
33.	Invited Conference Talk, Galactic and Extragalactic High Velocity Clouds Wo	rkshop.	05/2020
	University of Georgia, Athens, GA	r)	00/ =0=0
32.	Colloquium, Carnegie Observatory, Pasadena		04/2020
	Conference Talk, 2020 Spring Symposium – The Local Group: Assembly and Evo	lution,	04/2020
	Space Telescope Science Institute, Baltimore	,	- /
30.	Colloquium, Department of Astronomy, Xiamen University		12/2019
	Invited Seminar, Department of Astronomy, Tsinghua University		12/2019
	Colloquium, SOFIA Team, NASA Ames Research Center, Mountain View, CA		10/2019
	Highlight Talk, The Cosmic Baryon Cycle: Impact on Galaxy Evolution,		09/2019
	Seventh Annual GMT Community Science Meeting, Carlsbad, California		/
26.	Conference Talk, What matter(s) between galaxies: Unraveling the knots		06/2019
	in the Cosmic Web, Abbazia di Spineto, Italy		,
25.	Colloquium, University of Washington, Seattle		05/2019
	Invited Seminar, Center for Astrophysics & Space Sciences, UC San Diego		04/2019
	Colloquium, UC Santa Cruz, California		02/2019
	Lunch Talk, UC Berkeley, California		09/2018
	Dissertation Talk, 231st AAS Meeting, DC		01/2018
	Brown Bag Seminar, MIT, Boston, Massachusetts		12/2017
	Seminar, University of Chicago, Chicago, Illinois		11/2017
	UCSC FLASH Seminar, Santa Cruz, California		11/2017
	Caltech Tea Talk Seminar, Los Angeles, California		11/2017
	Invited Seminar, Princeton Thunch Seminar, New Jersey		09/2017
	Conference talk, In & Out. What Rules the Galaxy Baryon Cycle?		07/2017
	Munich Institute for Astro- and Particle Physics, Munich, Germany		/
14.	Conference talk, What Matter(s) Around Galaxies: Resolving the Physics of the		06/2017
	Circumgalactic Medium, Durham University, Durham, UK		/
13.	Conference talk, Life Cycle of Metals Throughout the Universe: Celebrating 50 Y	ears	04/2017
	of UV Astronomy, STScI Spring Symposium, Maryland		- /
12.	Invited Seminar, American Museum of Natural History, New York		10/2016
	Invited Talk, JILA Seminar, University of Colorado Boulder, Colorado		02/2016
	UCSC IMPS Winter Retreat, Santa Cruz, California		02/2016
	Conference talk, Observational Evidence of Gas Accretion onto Galaxies,		10/2015
	NRAO, Charlottesville, Virginia		,
8.	Conference talk, Life Cycle of Gas in Galaxies: A Local Perspective,		09/2015
	ASTRON, Dwingeloo, Netherlands		,
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7. Invited Public Talk at the Mount Tam Astronomy Program (MTAP), Bay Area, CA Talk: Galactic Weather 8. Public Talk at Berkeley Public Library, Talk: Galaxy's Climate System, when it rains, when it thunders, & when it dries up 7. Math Tutor for Kindergarteners from Low-income Families Every Friday, Reading Team Math Program for Kindergarteners and 1st-grades, Bronx, New York 7. Lecturer at Astronomy on Tap in New York, Talk: Astronomy Version X 7. Experiment leader for Girls Science Day at Columbia University, Drafted Astronomy Experiment Proposal for High-School Girl Visits 4. Volunteer/Telescope Operator for Columbia Public Lectures and Stargazing Nights 7. Lecturer for Columbia Public Lectures and Stargazing Nights 8. Lecturer for Sth/9th-Grade Girls to Share Experience as a Woman in STEM, GOALS for Girls Summer Intensive Program, Aviation and Space Science Mentorship Day, The Intrepid Sea, Air Space Museum, New York		
6. NAOC Seminar, Beijing, China 5. Invited Talk, UCSC Seminar, Santa Cruz, CA 4. Conference Talk, The Role of Hydrogen in the Evolution of Galaxies, Kuching, Malaysia 3. Poster, AAS Winter Meeting, Maryland 2. Third Korean-Chinese Informal Workgroup Meeting on Astro-dynamics for Stars and Galaxies, NAOC, Beijing, China 1. Symposium of Astronomy Undergraduate Students, Kayli Institute for Astronomy and Astrophysics & Peking University, Beijing, China PUBLIC OUTREACH 9. Invited Public Talk at the Mount Tam Astronomy Program (MTAP), Bay Area, CA Talk: Galactic Weather 8. Public Talk at Berkeley Public Library, Talk: Galaxy's Climate System, when it rains, when it thunders, & when it dries up Math Tutor for Kindergarteners from Low-income Families Every Friday, Reading Team Math Program for Kindergarteners and 1st-grades, Broux, New York 3. Lecturer at Astronomy on Tap in New York, Talk: Astronomy Version X 5. Experiment leader for Girls Science Day at Columbia University, Drafted Astronomy Experiment Proposal for High-School Girl Visits 4. Volunteer/Telescope Operator for Columbia Public Lectures and Stargazing Nights, 3. Lecturer for Columbia Public Lectures and Stargazing Nights, 3. Lecturer for Columbia Public Incentures and Stargazing Nights, 4. Volunteer/Telescope Operator for Columbia Public Lectures and Stargazing Nights, 4. Wolunteer/Telescope Operator for Sthy9th-Grade Girls to Share Experience as a Woman in STEM, GOALS for Girls Summer Intensive Program, Aviation and Space Science Mentorship Day, The Intrepid Sea, Air Space Museum, New York 4. Telescope Volunteer, World Science Pestival, Brooklyn Bridge Park, New York 6. Poleope Volunteer, World Science Festival, Brooklyn Bridge Park, New York 6. Dean's Fellowship, Graduate School of Arts and Science, Columbia University 3. First Prize, Linbridge Prize for Excellent Undergraduate Research Projects in Astronomy and Astrophysics, Kavli Institute for Astronomy and Astrophysics, Beijing, China 5. Scholarship of Astronomical Alumin Fund for Excellent Undergra	7. Invited Talk, KIAA Seminar, Peking University, Beijing, China	09/2015
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1. Dean's Fellowship, Graduate School of Arts and Science, Columbia University 2012-2018 2013. First Prize, Linbridge Prize for Excellent Undergraduate Research Projects in Astronomy and Astrophysics, Kavli Institute for Astronomy and Astrophysics, Beijing, China 2. Scholarship of Astronomical Alumni Fund for Excellent Undergraduates in Astronomy, Kavli Institute for Astronomy and Astrophysics, Beijing, China 3. Scholarship of National Astronomical Observatories, Chinese Academy of Sciences (NAOC) 2010. Beijing, China 3. NAIC/NRAO Single-Dish & NAASC Interferometry Schools, Green Bank Telescope, Charlottesville, Virginia Project: Measuring H I Masses of Shocked Post-Starburst Galaxies Advisor: Robert F. Minchin 3. Academic Writing for International Students, American Language Program, Fall 2013		06/201
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and Astrophysics, Kavli Institute for Astronomy and Astrophysics, Beijing, China Scholarship of Astronomical Alumni Fund for Excellent Undergraduates in Astronomy, Kavli Institute for Astronomy and Astrophysics, Beijing, China Scholarship of National Astronomical Observatories, Chinese Academy of Sciences (NAOC) Beijing, China SCHOOLS & INTERNSHIPS NAIC/NRAO Single-Dish & NAASC Interferometry Schools, Green Bank Telescope, Charlottesville, Virginia Project: Measuring H I Masses of Shocked Post-Starburst Galaxies Advisor: Robert F. Minchin Academic Writing for International Students, American Language Program, Fall 2013	. Dean's Fellowship, Graduate School of Arts and Science, Columbia University	2012-2018
Scholarship of Astronomical Alumni Fund for Excellent Undergraduates in Astronomy, Kavli Institute for Astronomy and Astrophysics, Beijing, China Scholarship of National Astronomical Observatories, Chinese Academy of Sciences (NAOC) Beijing, China SCHOOLS & INTERNSHIPS NAIC/NRAO Single-Dish & NAASC Interferometry Schools, Green Bank Telescope, Charlottesville, Virginia Project: Measuring H I Masses of Shocked Post-Starburst Galaxies Advisor: Robert F. Minchin Academic Writing for International Students, American Language Program, Fall 2013	, e	2011
. Scholarship of National Astronomical Observatories, Chinese Academy of Sciences (NAOC) Beijing, China SCHOOLS & INTERNSHIPS S. NAIC/NRAO Single-Dish & NAASC Interferometry Schools, Green Bank Telescope, Charlottesville, Virginia Project: Measuring H I Masses of Shocked Post-Starburst Galaxies Advisor: Robert F. Minchin S. Academic Writing for International Students, American Language Program, Fall 2013	2. Scholarship of Astronomical Alumni Fund for Excellent Undergraduates in Astronomy,	2011
5. NAIC/NRAO Single-Dish & NAASC Interferometry Schools, Green Bank Telescope, Charlottesville, Virginia Project: Measuring H I Masses of Shocked Post-Starburst Galaxies Advisor: Robert F. Minchin 5. Academic Writing for International Students, American Language Program, Fall 2013	. Scholarship of National Astronomical Observatories, Chinese Academy of Sciences (NAOC) 2010
Green Bank Telescope, Charlottesville, Virginia Project: Measuring H I Masses of Shocked Post-Starburst Galaxies Advisor: Robert F. Minchin Academic Writing for International Students, American Language Program, Fall 2013	Schools & Internships	
. Academic Writing for International Students, American Language Program, Fall 2013	Green Bank Telescope, Charlottesville, Virginia Project: Measuring H I Masses of Shocked Post-Starburst Galaxies	07/2015
	5. Academic Writing for International Students, American Language Program,	Fall 2013

4. Graduate Internship, Very Large Array, NRAO, Socorro, New Mexico	Summer 2013
	Summer 2015
Project: Modeling the Non-thermal Radio Emission of a Classical Nova V1723Aql	
Advisors: Michael Rupen, Amy Mioduszewski	
3. English Pronunciation for International Teaching Fellows,	Fall 2012 &
School of Professional Studies, Columbia University	Spring 2013
2. Observational Astronomy School, Kavli Institute for Astronomy & Astrophysics,	10/2011
Peking University & National Astronomical Observatories,	
Chinese Academy of Sciences (NAOC), Beijing, China	
1. Undergraduate Summer Internship, Shanghai Astronomical Observatory, China	Summer 2011

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Fuzhounese, Mandarin, English

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Publication List – Yong Zheng

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FIRST-AUTHORED JOURNAL ARTICLES

- 6. 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, submitted to ApJ, arXiv:2001.07736.
- 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

- 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.
- 1. 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

- 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.
- 3. 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.
- 2. 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.