XIN WANG

Personal Information

CURRENT STATUS: Postdoctoral Research Associate at Caltech/IPAC EMAIL, PHONE: wangxin@ipac.caltech.edu | +1-805-574-0025

WEB: http://www.astro.ucla.edu/~xwang

Mailing Address: Infrared Processing and Analysis Center, Mail Code 314-6, Caltech

1200 East California Boulevard, Pasadena, CA 91125, USA

Education and Employment

Aug. 2019– Present	Infrared Processing and Analysis Center, Caltech Postdoctoral Research Associate
I ICESENI	1 ostdottoral research Associate
SEPT. 2015– Jun. 2019	Dept. of Physics and Astronomy, University of California, Los Angeles Ph.D. in Astronomy & Astrophysics
SEPT. 2013– Jun. 2015	Physics Department, University of California, Santa Barbara Master of Arts in Physics
SEPT. 2010– Jun. 2013	School of Astronomy and Space Sciences, Nanjing University Master of Science in Astrophysics
SEPT. 2006– Jun. 2010	Department of Astronomy, Nanjing University Bachelor of Science in Astronomy

Awards and Honors

Awards and Honors			
Mar.	2020	Kavli Visiting Fellow, Peking University	
Jun.	2019	UCLA Physics and Astronomy Commencement Speaker	
Jan.	2019	Chinese Government Award for Outstanding Graduate Students Abroad (\$6k)	
DEC.	2018	UCLA Doctoral Student Travel Grant (\$1k)	
Jul.	2018	UCLA Richardson Travel Fund (\$1.7k)	
Jun.	2018	UCLA Dissertation Year Fellowship (\$47k: stipend+tuition)	
May	2018	Rudnick-Abelmann Fellowship, UCLA (\$2k)	
Apr.	2018	IAU grant for participating the XXXth General Assembly (
Apr.	2018	AAS International Travel Grant (\$2k)	
Apr.	2015	AAS International Travel Grant (\$1k)	
Jun.	2014	1 st Prize for Excellent M.Sc. Thesis amongst all Universities and Colleges in Jiangsu Province, China	
Sept.	2013	Broida Fellowship, UCSB (\$3k)	
DEC.	2012	National Scholarship for Graduate Students (CNY30k)	
Aug.	2010	$1^{\rm st}$ Prize for Excellent B.Sc. Thesis amongst all Universities and Colleges in Jiangsu Province, China	

OCT. 2009 | Scholarship of National Astronomical Observatories, Chinese Academy of Sciences

Talks and Colloquia

Talks a	and Co	olloquia
DEC.	2020	Invited Seminar, @ Department of Physics and Astronomy, University of
		Missouri
DEC.	2019	Invited talk, @ Purple Mountain Observatory, Nanjing
DEC.	2019	Invited talk, @ 2019 Nanjing University Youth Forum, Nanjing
DEC.	2019	Invited talk, @ Shanghai Astronomical Observatory
DEC.	2019	Invited talk, @ Shanghai Jiao Tong University, Shanghai
Aug.	2019	Lunch talk, @ The Kavli Institute for Astronomy and Astrophysics at
		Peking University
Aug.	2019	Invited talk, @ National Astronomical Observatories of China, Beijing
Aug.	2019	Invited talk, @ Key Laboratory of Space Utilization, CAS
Jun.	2019	Invited talk, @ CLEAR collaboration meeting, STScI
Feb.	2019	Contributed talk, @ Extremely Big Eyes on the Early Universe, UCLA
Jan.	2019	Dissertation Talk, @ AAS 223, Seattle
DEC.	2018	Astronomy Seminar @ Columbia
DEC.	2018	Galread Extragalactic Discussion Group @ Princeton
Dec.	2018	Galaxy Journal Club @ STScI
DEC.	2018	Galaxies & Cosmology Seminar @ CfA Harvard & Smithsonian
Nov.	2018	IMPS Seminar @ UC Santa Cruz
		Lunch talk @ Carnegie Observatories, Pasadena, CA
Oct.	2018	Astronomy Tea talk @ Caltech, Pasadena, CA
Aug.	2018	Contributed talk, @ Focus Meeting 7 at the XXXth IAU General Assem-
		bly, Vienna, Austria
$_{ m JUL}$.	2018	Invited talk, @ University of Science and Technology of China, Hefei
Jun.	2018	1
		in Galaxies, Beijing, China
	2018	, , , , , , , , , , , , , , , , , , , ,
	2018	Colloquium talk, @ IPAC, Caltech, Pasadena, CA
		Lunch talk, @ Carnegie Observatories, Pasadena, CA
		Invited talk, @ Tsinghua University, Beijing
		Invited talk, @ Nanjing University, Nanjing
		Invited talk, @ Shanghai Jiao Tong University, Shanghai
Jun.	2017	Contributed talk, @ Special Session 11 at European Week of Astronomy
_		and Space Science, Prague, Czech Republic
Jan.	2017	
A	2016	AZ
AUG.	2016	Colloquium talk, @ Department of Astronomy, University of Michigan,
T	2010	Ann Arbor, MI
JUL.	2016	Invited talk, @ Tsinghua University, Beijing

CV: Xin Wang

Jun. 2016 | Invited talk, @ Purple Mountain Observatory, Nanjing

- Jun. 2016 | Invited talk, @ National Astronomical Observatories of China, Beijing
- Aug. 2015 | Contributed talk, @ Focus Meeting 22 at the XXIXth IAU General Assembly, Honolulu, HI
- Nov. 2012 | Contributed talk, @ Tsinghua Transient Workshop 2012, Tsinghua University, Beijing
- Jun. 2010 | Contributed talk, @ A mini-workshop on "Gamma-ray Sky from Fermi: Neutron Stars and their Environment", Hong Kong, China
- APR. 2009 | Contributed talk, @ Frontiers of Space Astrophysics: Neutron Stars & Gamma Ray Bursts Recent Developments & Future Directions, Cairo & Alexandria, Egypt

Approved Proposals

- 11 HST-GO-17159, **PI Wang**, 38 Primary Spacecraft Orbits: Escaping Lyman Continuum from the Overdensities of Extreme Emission Line Galaxies at z~2.2
- 10 JWST-GO-01571, PI Malkan: PASSAGE—Parallel Application of Slitless Spectroscopy to Analyze Galaxy Evolution
- 9 JWST-GO-02136, PI Jones: The emergence of the modern Hubble sequence revealed by JWST slit-stepping
- 8 HST-GO-16276, **PI Wang**, 45 Primary Spacecraft Orbits: WFC3 Spectroscopy of the Most Massive Galaxy Protoclusters at Cosmic Noon
- 7 JWST-ERS-01324, PI Treu: Through the Looking GLASS: A JWST Exploration of Galaxy Formation and Evolution from Cosmic Dawn to Present Day
- 6 HST-GO-15647, PI Teplitz: Ultraviolet Imaging of the Cosmic Assembly Near-infrared Deep Extragalactic Legacy Survey Fields (UVCANDELS)
- 5 VLT-0101.B-0418(A), PI Sanchez-Janssen: Chemodynamics of lensed dwarf galaxies at $1\lesssim z\lesssim 2$
- 4 Keck, PI Jones: Dissecting Galaxy Formation and Testing Feedback Models on 100 pc Scales: An OSIRIS Survey of Lensed Galaxies at $z\simeq 2$
- 3 HST-DDT-14922, PI Kelly: Probing the Nature of Dark Matter with Individual Stars Highly Magnified by a Galaxy Cluster
- 2 HST-14280, PI Bradac: Breaking Cosmic Dawn: Observing the z>7 Universe Through Cosmic Telescopes
- 1 HST-GO-13459, PI Treu: The Grism Lens-Amplified Survey from Space (GLASS)

Observing Experience

- Keck OSIRIS, 16 nights
- Keck DEIMOS, 3 nights
- Keck MOSFIRE, 3 nights
- Keck ESI, 1 night
- Steward Observatory Bok telescope, 6 nights
- Palomar Observatory P200 telescope, 2 nights
- Lick Observatory Shane telescope, 1 night

Professional Service

- Referee for Astrophysical Journal, Astrophysical Journal Supplement Series
- External reviewer for Chinese Telescope Access Program Time Allocation Committee
- External reviewer for HST Cycle 29 Time Allocation Committee
- Selected participant in the inaugural JWST Master Class
- Organizer of the KIAA JWST Proposal Planning Workshop
- Organizer of the UCLA JWST Proposal Planning Workshop
- Organizer of Treu Group Meetings, @ UCSB & UCLA
- Organizer of Graduate Journal Club in School of Astronomy and Space Sciences, NJU

Teaching Experience

MarJun. 2014	Teaching assistant of <i>Physics 3: Basic Physics</i> , UCSB
SeptDec. 2013	Teaching assistant of <i>Physics 6 Lab</i> , UCSB
SeptDec. 2010	Teaching assistant of Theoretical Astrophysics (upper division under-
	graduate course), Nanjing University

Working Experience and Outreach Activities

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2015 - 2017	Demonstrator of Astronomy experiments to local K12 schools in Los Angeles
2015 – 2017	Volunteer in the annual Exploring Your Universe! events, UCLA
2010 – 2012	President of Graduate Student Union in School of Astronomy and Space
	Sciences, Nanjing University

1st/2nd Author Papers in Refereed Academic Journals

- Wang, X. et al. Measurements of Escaping Lyman Continuum in Galaxy Stacks and Extreme Emission Line Galaxies from UVCANDELS. In prep.
- 9 Wang, X. et al. A Census of Sub-kiloparsec Resolution Metallicity Gradients in Star-forming Galaxies at Cosmic Noon from HST Slitless Spectroscopy. 2020, Astrophys. J., 900, 183 (arXiv:1911.09841) [8 citations]
- 8 Wang, X. et al. Discovery of Strongly inverted metallicity gradients in Dwarf Galaxies at $z\sim2$. 2019, Astrophys. J., 882, 94 (arXiv:1808.08800) [20 citations]
- 7 Wang, X. et al. The Grism Lens-Amplified Survey from Space (GLASS) X. Sub-kiloparsec resolution gas-phase metallicity maps at cosmic noon behind the Hubble Frontier Fields cluster MACS1149.6+2223. 2017, Astrophys. J., 837, 89 (arXiv:1610.07558) [38 citations]
- 6 Wang, X. et al. The Grism Lens-Amplified Survey from Space (GLASS) IV. Mass reconstruction of the lensing cluster Abell 2744 from frontier field imaging and GLASS spectroscopy. 2015, Astrophys. J., 811, 29 (arXiv:1504.02405) [43 citations]
- 5 Jones, T., Wang, X. et al. The Grism Lens-Amplified Survey from Space (GLASS) II. Gas-Phase Metallicity and Radial Gradients in an Interacting System At z~2. 2015, Astron. J., 149, 107 (arXiv:1410.0967) [49 citations]
- 4 Wang, X., Meng, X.-L., & Huang, Y. F., Testing X-ray Measurements of Galaxy Cluster Gas Mass Fraction Using the Cosmic Distance-Duality Relation and Type Ia Supernovae. 2013, RAA, 13, 1013 (arXiv:1305.2077) [3 citations]
- 3 Wang, X., Meng, X.-L. et al. Observational Constraints on Cosmic Neutrinos and Dark Energy Revisited. 2012, J. Cosmol. Astropart. Phys., 11, 018 (arXiv:1210.2136) [24 citations]
- 2 Wang, X., Huang, Y. F., & Kong, S. W. Constraint on the Counter-jet Emission in GRB Afterglows from GRB 980703. 2010, Sci. China-Phys. Mech. Astron., 53 (Suppl.1), 259 [3 citations]
- 1 Wang, X., Huang, Y. F., & Kong, S. W. On the Afterglow from the Receding Jet of Gamma-Ray Bursts. 2009, Astron. Astrophys., 505, 1213 (arXiv:0903.3119) [8 citations]

Contributing Author Papers in Refereed Academic Journals

- 20 Abramson, L. E., ..., **Wang, X.** et al. The Grism Lens-Amplified Survey from Space (GLASS). XIII. G800L optical spectra from the parallel fields. 2020, *MN-RAS*, 493, 952 (arXiv:1906.00008) [4 citations]
- 19 Morishita, T., ..., **Wang, X.**. Massive Dead Galaxies at z~2 with HST Grism Spectroscopy. I. Star Formation Histories and Metallicity Enrichment. 2019, *Astrophys. J.*, 877, 141 (arXiv:1812.06980) [25 citations]

- Hirtenstein, J., Jones, T., **Wang, X.** et al. The OSIRIS Lens-Amplified Survey (OLAS) I: Dynamical Effects of Stellar Feedback in Low Mass Galaxies at z∼2. 2018, *Astrophys. J.*, 880, 54 (arXiv:1811.11768) [11 citations]
- 17 Strait, V., ..., Wang, X. et al. Mass and Light of Abell 370: A Strong and Weak Lensing Analysis. 2018, Astrophys. J., 868, 129 (arXiv:1805.08789) [17 citations]
- Finney, E., ..., Wang, X. et al. Mass Modeling of Frontier Fields Cluster MACS J1149.5+2223 Using Strong and Weak Lensing. 2018, Astrophys. J., 859, 1 (arXiv:1806.00698) [8 citations]
- 15 Morishita, T., Abramson, L. E., Treu, T., **Wang, X.** et al. Metal Deficiency in Two Massive Dead Galaxies at z~2. 2018, *Astrophys. J. Letters*, 856L, 4 (arXiv:1803.01852) [12 citations]
- Abramson, L. E., ..., **Wang, X.** et al. The Grism Lens-Amplified Survey from Space (GLASS). XII. Spatially Resolved Galaxy Star Formation Histories and True Evolutionary Paths at z>1. 2018, *Astron. J.*, 156, 29 (arXiv: 1710.00843) [9 citations]
- 13 Kelly, P. L., ..., **Wang, X.** et al. Extreme magnification of an individual star at redshift 1.5 by a galaxy-cluster lens. 2018, *Nature Astronomy*, 2, 334 (arXiv:1706.10279) [71 citations]
- Williams, P. R., ..., Wang, X. Discovery of three strongly lensed quasars in the Sloan Digital Sky Survey. 2018, MNRAS, 477L, 70 (arXiv:1706.01506) [16 citations]
- Schmidt, K. B., ..., **Wang, X.** The Grism Lens-Amplified Survey from Space (GLASS). XI. Detection of CIV in Multiple Images of z=6.11 Ly α Emitter Behind RXCJ2248.7-4431. 2017, Astrophys. J., 839, 17 (arXiv:1702.04731) [35 citations]
- Morishita, T., Abramson, L. E., Treu, T., Schmidt, K. B., Vulcani, B., Wang, X. Characterizing Intracluster Light in the Hubble Frontier Fields. 2017, Astrophys. J., 846, 139 (arXiv:1610.08503) [48 citations]
- 9 Vulcani, B., ..., Wang, X. The Grism lens-amplified survey from space (GLASS). VIII. The influence of the cluster properties on Halpha emitter galaxies at 0.3 < z < 0.7. 2017, Astrophys. J., 837, 126 (arXiv:1610.04615) [13 citations]
- 8 Morishita, T., ..., Wang, X., et al. The Grism Lens-Amplified Survey from Space (GLASS). IX. The dual origin of low-mass cluster galaxies as revealed by new structural analyses. 2017, Astrophys. J., 835, 254 (arXiv:1607.00384) [34 citations]
- 7 Huang, K., ..., Wang, X. Detection of Lyman-Alpha Emission From a Triple Imaged z=6.85 Galaxy Behind MACS J2129.4-0741. 2016, Astrophys. J. Letters, 823L, 14 (arXiv:1605.05771) [28 citations]
- 6 Hoag, A., ..., Wang, X. et al. The Grism Lens-Amplified Survey from Space (GLASS). VI. Comparing the Mass and Light in MACSJ0416.1-2403 using Frontier Field imaging and GLASS spectroscopy. 2016, Astrophys. J., 831, 182 (arXiv:1603.00505) [34 citations]

- 5 Schmidt, K. B., ..., **Wang, X.** The Grism Lens-Amplified Survey from Space (GLASS). III. A census of Ly α Emission at $z \gtrsim 7$ from HST Spectroscopy. 2016, Astrophys. J., 818, 38 (arXiv:1511.04205) [52 citations]
- 4 Rodney, S., ..., Wang, X., et al. Illuminating a Dark Lens: A Type Ia Supernova Magnified by the Frontier Fields Galaxy Cluster Abell 2744. 2015, Astrophys. J., 811, 70 (arXiv:1505.06211) [56 citations]
- 3 Treu, T., Schmidt, K. B., Brammer, G. B., Vulcani, B., Wang, X. et al. The Grism Lens-Amplified Survey from Space (GLASS). I. Survey Overview and First Data Release. 2015, Astrophys. J., 812, 114 (arXiv:1509.00475) [143 citations]
- 2 Schmidt, K. B., Treu, T., Brammer, G. B., Bradac, M., Wang, X. et al. Through the Looking GLASS: HST Spectroscopy of Faint Galaxies Lensed by the Frontier Fields Cluster MACSJ0717.5+3745. 2014, Astrophys. J. Letters, 782L, 36 (arXiv: 1401.0532) [102 citations]
- 1 Meng, X.-L., Zhang, T.-J., Zhan, H., & Wang, X. Morphology of Galaxy Clusters: A Cosmological Model-Independent Test of the Cosmic Distance-Duality Relation. 2012, Astrophys. J., 745, 98 (arXiv:1104.2833) [58 citations]