XIN WANG

Personal Information CURRENT STATUS: Postdoctoral Scholar at Caltech/IPAC EMAIL, PHONE, WEB: wangxin@ipac.caltech.edu | +1-805-574-0025 | 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 Scholar Expertise: Space-based Slitless Spectroscopy, HST WFC3/UVIS Imaging
SEPT. 2015-	Department of Physics and Astronomy, University of California, Los Angeles Ph.D. in Astronomy & Astrophysics
Jun. 2019	Field of Interest: Spatially Resolved Spectroscopy, Chemical Evolution of Galaxies, Extragalactic Nebular Emission, Strong Gravitational Lensing.
SEPT. 2013- Jun. 2015	Physics Department, University of California, Santa Barbara M.A. in Physics Graduate Course Cumulative GPA: 3.96
SEPT. 2010- Jun. 2013	School of Astronomy and Space Sciences, Nanjing University M.Sc. in Astrophysics Field of Interest: Precision Cosmology, Galaxy Clusters, Gamma-ray Bursts.
SEPT. 2006– Jun. 2010	Department of Astronomy, Nanjing University B.Sc. in Astronomy Weighted Average Score: 84.64/100 (overall), 87.68/100 (major); Ranking: 2 nd /26

Awards and Honors

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
Sept.	2013	Broida Fellowship, UCSB (\$3k)
DEC.	2012	National Scholarship for Graduate Students (~\$4k)
		The highest honorific scholarship in China conferred annually on excellent graduate students.
Aug.	2010	1 st Prize for Excellent B.Sc. Thesis amongst all Universities and Colleges in Jiangsu Province
Oct.	2009	Scholarship of National Astronomical Observatories, Chinese Academy of Sciences

Talks and Colloquia

Aug. 2018 | Contributed talk, @ Focus Meeting 7 at the XXXth IAU General Assembly, Vienna, Austria Jul. 2018 | Invited talk, @ University of Science and Technology of China, Hefei Jun. 2018 | Contributed talk with conference fellowship, @ KIAA Forum on Gas in Galaxies, Beijing May 2018 | Invited talk, @ 2018 Nanjing University Youth Forum, Nanjing, China Feb. 2018 | Colloquium talk, @ IPAC, Caltech, Pasadena, CA JAN. 2018 | Lunch talk, @ Carnegie Observatories, Pasadena, CA Sept. 2017 | Invited talk, @ Tsinghua University, Beijing Sept. 2017 | Invited talk, @ Nanjing University, Nanjing Sept. 2017 | 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 | Colloquium talk, @ Steward Observatory, University of Arizona, Tucson, AZ Aug. 2016 | Colloquium talk, @ Department of Astronomy, University of Michigan, Ann Arbor, MI Jul. 2016 | Invited talk, @ Tsinghua University, Beijing 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 (CoI)

- 1 JWST-ERS-1324, PI Treu: Through the Looking GLASS: A JWST Exploration of Galaxy Formation and Evolution from Cosmic Dawn to Present Day
- 2 HST-14922, PI Kelly: Probing the Nature of Dark Matter with Individual Stars Highly Magnified by a Galaxy Cluster
- 3 HST-14280, PI Bradac: Breaking Cosmic Dawn: Observing the z>7 Universe Through Cosmic Telescopes
- 4 VLT-0101.B-0418(A), PI Sanchez-Janssen: Chemodynamics of lensed dwarf galaxies at $1\lesssim z\lesssim 2$
- 5 Keck, PI Jones: Dissecting Galaxy Formation and Testing Feedback Models on 100 pc Scales: An OSIRIS Survey of Lensed Galaxies at $z\simeq 2$

Observing Experience

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

Professional Service

- Referee for Astrophysical Journal, Astrophysical Journal Supplement Series
- External reviewer for Chinese Telescope Access Program Time Allocation Committee
- Selected participant in the inaugural JWST Master Class
- Organizer of the KIAA JWST Proposal Planning Workshop and 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 Physics 3: Basic Physics, University of California, Santa Barbara
SeptDec. 2013	Teaching assistant of Physics 6 Lab, University of California, Santa Barbara
SeptDec. 2010	Teaching assistant of <i>Theoretical Astrophysics</i> (upper division undergraduate course), NJU

Working Experience and Outreach Activities

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, NJU

1st/2nd Author Papers in Refereed Academic Journals

- Wang, X. et al. First Census of Sub-kiloparsec Resolution Metallicity Gradients in Star-forming Galaxies at Cosmic Noon from HST Slitless Spectroscopy. 2019, Astrophys. J., submitted (arXiv:1911.09841)
- 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)
- 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)
- 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)
- 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)
- 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)
- 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)
- 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
- 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)

Contributing Author Papers in Refereed Academic Journals

- Abramson, L. E., ..., Wang, X. et al. The Grism Lens-Amplified Survey from Space (GLASS). XIII. G800L optical spectra from the parallel fields. 2019, MNRAS, submitted (arXiv:1906.00008)
- 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)
- 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)
- Quinn, 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)
- 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)
- 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)
- 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)
- Williams, P. R., ..., **Wang, X.** Discovery of three strongly lensed quasars in the Sloan Digital Sky Survey. 2018, MNRAS, 477L, 70 (arXiv:1706.01506)
- Schmidt, K. B., ..., Wang, X. The Grism Lens-Amplified Survey from Space (GLASS). XI. Detection of CIV in Multiple Images of $z=6.11~{\rm Ly}\alpha$ Emitter Behind RXCJ2248.7-4431. 2017, Astrophys. J., 839, 17 (arXiv:1702.04731)
- 10 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)
 - 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)

- 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)
- 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)
- 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)
- 5 Schmidt, K. B., ..., Wang, X. The Grism Lens-Amplified Survey from Space (GLASS). III. A census of Lyα Emission at z ≥7 from HST Spectroscopy. 2016, Astrophys. J., 818, 38 (arXiv:1511.04205)
- 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)
- 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)
- 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)
- 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)