XIN WANG

Personal Information

CURRENT STATUS: Graduate Student at University of California, Los Angeles

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Mailing Address: Department of Physics and Astronomy, UCLA,

Los Angeles, CA, USA 90095-1547

Education

Dept. of Physics and Astronomy, University of California, Los Angeles
towards Ph.D. in Astronomy and Astrophysics
Field of Interest: Spatially Resolved Spectroscopy, Chemical Evolution of
Galaxies, Extragalactic Nebular Emission, Strong Gravitational Lensing.
Advisors: Profs. Tommaso Treu, Tucker A. Jones, Keren Sharon
Physics Department, University of California, Santa Barbara
M.A. in Physics
Graduate Course Cumulative GPA: 3.96
School of Astronomy and Space Sciences, Nanjing University
M.Sc. in Astrophysics
Field of Interest: Cosmology, Galaxy Clusters, Gamma-ray Bursts.
Advisors: Profs. Yong Feng Huang, Charling Tao, Gong-Bo Zhao
Department of Astronomy, Nanjing University
B.Sc. in Astronomy
Weighted Average Score: $84.64/100$ (overall), $87.68/100$ (major); Ranking: $2^{\text{nd}}/26$

Awards and Honors

I I W CII CI	, and	
$_{ m Jul.}$	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	$1^{\rm st}$ 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 Graduates (~\$4k) The highest honorific scholarship in China conferred annually on excellent graduate students.

- Aug. 2010 | 1st 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

- OCT. 2018 | Colloquium talk @ Caltech, Pasadena, CA
- 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, China
- May 2018 | Invited talk, @ 2018 Nanjing University Youth Forum, Nanjing, China
- Feb. 2018 | Colloquium talk, @ IPAC, Caltech, Pasadena, CA
- JAN. 2018 | Colloquium 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
- Aug. 2017 | Contributed talk, @ Shedding Light on the Dark Universe with Extremely Large Telescopes, Lanzhou, China
- 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", University of Hong Kong, Hong Kong
- Apr. 2009 | Contributed talk, @ Frontiers of Space Astrophysics: Neutron Stars & Gamma Ray Bursts Recent Developments & Future Directions, Cairo & Alexandria, Egypt

Computer Skills

Python, IDL, MATLAB, FORTRAN, C, LATEX, vim, Github, Mathematica

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, 12 nights
- Keck DEIMOS, 3 nights
- Keck MOSFIRE, 1 night
- Keck ESI, 1 night
- Lick Observatory Shane telescope, 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 TAC
- 2014–2015 | Organizer of Treu Group Meetings, UCSB & UCLA
- DEC. 2010– Organizer of Graduate Journal Club in School of Astronomy and Space Sciences, Nanjing University
- DEC. 2011 In total, I arranged 17 meetings, and invited 34 speakers. The topics are related to the major field of interest of the speakers, who will also share with participants some academic experience in doing scientific research. This activity is financially supported by our school.

Teaching Experience

MarJun. 2014	Teaching assistant of <i>Physics 3: Basic Physics</i> , University of California,
	Santa Barbara
SEPTDEC. 2013	Teaching assistant of Physics 6 Lab, University of California, Santa
	Barbara

Sept.-Dec. 2010 Teaching assistant of *Theoretical Astrophysics* (upper division undergraduate course), Nanjing University

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, Nanjing University

1st/2nd Author Papers in Refereed Academic Journals

- 8 Wang, X. et al. Discovery of Strongly inverted metallicity gradients in Dwarf Galaxies at $z\sim2$. 2018, Astrophys. J. submitted (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)
- 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)
- 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
- 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)

Contributing Author Papers in Refereed Academic Journals

- 17 Strait, V., ..., Wang, X. et al. Mass and Light of Abell 370: A Strong and Weak Lensing Analysis. 2018, Astrophys. J. accepted (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)
- 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)
- 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. An individual star at redshift 1.5 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)
- 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)
- 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 Ly α Emission at $z \gtrsim 7$ 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)
- 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)
- 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)