# XIN WANG

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Personal Info			
Current Email, Phon Mailing A	E, WEB: wangxin@ipac.caltech.edu   +1-805-574-0025   http://www.astro.ucla.edu/~xwang		
Education and	d Employment		
Aug. 2019– Present	Infrared Processing and Analysis Center, Caltech   Postdoctoral Scholar   Expertise: Space-based Slitless Spectroscopy and Near-UV Direct Imaging		
Sept. 2015-	Department of Physics and Astronomy, University of California, Los Angeles		
Jun. 2019	Ph.D. in Astronomy & Astrophysics 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>B.Sc. in Astronomy</b>   Weighted Average Score: 84.64/100 (overall), 87.68/100 (major); Ranking: 2 <sup>nd</sup> /26		
Awards and I	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 ( $\bigcirc$ 0.75k)		
Apr. 2018	AAS International Travel Grant (\$2k)		
Apr. 2015	AAS International Travel Grant (\$1k)		
Jun. 2014	1 <sup>st</sup> 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 (CNY30k)		
Aug. 2010	1 <sup>st</sup> Prize for Excellent B.Sc. Thesis amongst all Universities and Colleges in Jiangsu Province		
Ост. 2009	Scholarship of National Astronomical Observatories, Chinese Academy of Sciences		
Talks and Co	lloquia		
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   Aug. 2019	Invited talk, @ Shanghai Jiao Tong University, Shanghai  Lunch talk, @ The Kavli Institute for Astronomy and Astrophysics at Peking University		
Aug. 2019   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		

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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 Nov. 2018 | 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 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 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, @ Nanjing University, Nanjing 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**

- 1 HST-16276, **PI Wang**, 45 Primary Spacecraft Orbits: WFC3 Spectroscopy of the Most Massive Galaxy Protoclusters at Cosmic Noon
- 2 JWST-ERS-1324, PI Treu: Through the Looking GLASS: A JWST Exploration of Galaxy Formation and Evolution from Cosmic Dawn to Present Day
- 3 HST-14922, PI Kelly: Probing the Nature of Dark Matter with Individual Stars Highly Magnified by a Galaxy Cluster
- 4 HST-14280, PI Bradac: Breaking Cosmic Dawn: Observing the z>7 Universe Through Cosmic Telescopes
- 5 VLT-0101.B-0418(A), PI Sanchez-Janssen: Chemodynamics of lensed dwarf galaxies at  $1 \lesssim z \lesssim 2$
- 6 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

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#### 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 <i>Physics 3: Basic Physics</i> , 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

#### Publications

### 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., in press (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. 2020, MNRAS, 493, 952 (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)

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- 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)
- 11 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 $\alpha$  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)

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