

ZHENG ZHENG

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Email: zhengzheng@astro.utah.edu<http://www.astro.utah.edu/~zhengzheng>**RESEARCH INTERESTS**

- Cosmology, large-scale structure, and galaxy clustering
- Galaxy formation and evolution, Ly α emitting galaxies
- Radiative transfer of Ly α photons and applications in astrophysics
- Broad research interests in other fields of astrophysics

EXPERIENCE

Professor, Department of Physics and Astronomy, University of Utah	2021 –
Associate Professor, Department of Physics and Astronomy, University of Utah	2015 – 2021
Assistant Professor, Department of Physics and Astronomy, University of Utah	2011 – 2015
YCAA Prize Fellow, Yale University	2009 – 2011
Long-Term Member / John Bahcall Fellow, Institute for Advanced Study	2008 – 2009
Member / Hubble Fellow, Institute for Advanced Study, Princeton	2004 – 2007
Visiting Professor, Tsung-Dao Lee Institute & Shanghai Jiao Tong University	2017 – 2020

EDUCATION

OHIO STATE UNIVERSITY, Columbus, Ohio	1999 – 2004
Ph.D. in Astronomy, August 2004	
BEIJING ASTRONOMICAL OBSERVATORY, CHINESE ACADEMY OF SCIENCES, Beijing, China	1996 – 1999
M.S. in Astrophysics, August 1999	
PEKING UNIVERSITY, Beijing, China	1991 – 1996
B.S. in Astronomy, July 1996	

HONORS AND AWARDS

Outstanding Associate Editor for <i>SCIENCE CHINA Physics, Mechanics & Astronomy</i>	2022
YCAA Prize Fellowship, Yale University	2009 – 2011
John Bahcall Fellowship, Institute for Advanced Study, Princeton	2008 – 2009
Hubble Fellowship, NASA, Institute for Advanced Study, Princeton	2004 – 2007
Presidential Fellowship, Ohio State University	2003 – 2004
Presidential Fellowship, Chinese Academy of Sciences	1999
Liu Yongling Scholarship, Chinese Academy of Sciences	1999
Excellence Scholarship, Graduate School, Chinese Academy of Sciences	1997
Honor Graduate, Peking University	1996
Baogang Scholarship for Excellent Student, Peking University	1994,1995
Prize for Excellent Student, Peking University	1993,1995

GRANTS

AwardedResearch Grants

- NSF grant AST-0907947, \$332,605 (08/15/2009–07/31/2013), Co-PI, with PI Idit Zehavi
“From Galaxy Clustering to Galaxy Formation and Evolution”
- NSF grant AST-1208891, \$497,855 (09/15/2012–08/31/2016), PI
“A Lyman-alpha View of the Late Stage of Reionization”
- NASA ATP grant NNX14AC89G, \$250,511 (01/02/2014–01/01/2018), PI
“A Lyman-alpha View of the Late Stage of Reionization”
- NASA grant NNX17AJ80G for Astrophysics Probes Mission Concept Studies Program,
~\$300k (2017–2019), Co-I with PI Asantha Cooray (UC Irvine)
“Cosmic Dawn Intensity Mapper”
*(It is one of the 10 recently selected Astrophysics Probes for the 2020 Decadal Survey Planning.
Zheng co-leads the Ly α and reionization part of the project. No funding for Utah.)*
- NSF grant AST-2007499, \$361,428 (08/01/2020–07/31/2023), PI
“Collaborative Research: Physics and Applications of Lyman-Alpha Emission of Star-forming
Galaxies”
- JWST Cycle 1 Program AR-02608, \$14,820 (05/01/2022–04/30/2025), Co-I w/ PI Anson D’Aloisio
“Revealing the Earliest Reionized Bubbles with JWST”
[Utah part cut to zero due to overall STScI budget reduction]
- University of Utah Incentive Seed Grant Program, \$27,000 (01/01/2018–12/31/2018), PI
“Tightening Cosmological Constraints from Small- and Intermediate-Scale Galaxy Clustering
for the Next Generation Galaxy Surveys”
- Joint Research Fund for Overseas Chinese Scholars and Scholars in Hong Kong and Macao,
NSF of China, ~\$27k (01/01/2019–12/31/2020), PI
“The theoretical and observational study of the galaxy assembly bias”

Conference Grants

- NSF grant AST-1221024, \$8,200 (03/1/2012–02/28/2013), Co-PI, with PI Adam Bolton
“Support for the 2012 SnowPAC Workshop”
- NSF grant AST-1715343, \$12,900 (02/01/2017–01/31/2018), PI
“Support for the 2017 SnowPAC Workshop”

OBSERVATION PROPOSALS

- P106 VLT XSHOOTER Proposal (*Approved: Aug, 2020*), CoI with PI M. Aravena and Y. Ao
“Searching for cooling flows”
- S20A Subaru Telescope Proposal (*Approved: Dec, 2019*), CoI with PI Shiro Mukae
“Uncovering the Physical Origin of a Giant Ly-alpha Nebula with MOIRCS”
- NOAO Proposal (*Approved: July, 2018*), CoI with PI Shiro Mukae
“Deep Imaging for IGM Tomography of Enormous Lyman Alpha Nebulae”

- ALMA Cycle 6 Proposal (*Approved*: July, 2018), CoI with PI Yiping Ao
“Powering sources and Ly α escaping fractions of Lyman alpha Blobs in the SSA22 field”
- Hubble Space Telescope Cycle 23 GO Proposal (*Approved*; June, 2015), CoI with PI Adam Bolton
“Quantifying Cold Dark Matter Substructure with a Qualitatively New Gravitational Lens Sample”
- Hubble Space Telescope Cycle 22 GO Proposal (*Approved*; June, 2014), CoI with PI Zheng Cai
“Probing Quasar Host Galaxy of a Quasar at $z=2.1$ with DLA System as Coronagraph”
- SDSS-III Spectroscopy Ancillary Program (*Approved*; May, 2012), PI
“A Galaxy Sample Free of Fiber Collisions”
- Keck (NIRC), one night (*Approved*; Dec 11, 2011), PI
“Uncovering the Origins of Hot Jupiters: Searching for Kozai Perturbers via NIRC Direct Imaging”

POSTDOCS AND STUDENTS SUPERVISED OR CO-SUPERVISED IN RESEARCH

Postdocs

- Hong Guo, University of Utah, 2013–2015 (now faculty member at Shanghai Astronomical Observatory, Chinese Academy of Sciences)
- Raphael Sadoun, University of Utah, 2013–2018 (postdoc at Osaka University, now private sector)

Graduate Students

- Guangtun Zhu, Shanghai Astronomical Observatory, 2005–2006 (MS)
- Ying Zu, Shanghai Astronomical Observatory, 2006–2008 (MS)
- Greg Engh, University of Utah, 2015–2017 (MS)
- Xia Luo (visiting student), Beijing Normal University, 2015.1–2015.4
- Haojie Xu, University of Utah, 2011–2018 (now postdoc at SJTU)
- Shiyu Nie, University of Utah, 2014–2019 (private sector)
- Xiaoju Xu, University of Utah, 2015–2019 (postdoc at CWRU and SJTU)
- Kevin McCarthy, University of Utah, 2016–2021 (now NASA postdoc at JPL)
- Callie Clontz, University of Utah, 2020–2022
- Pengfei Li, University of Utah, 2021–
- Tyler Hagen, University of Utah, 2022–
- Li Yang (visiting student), Shanghai Astronomical Observatory, 2018.9–

Undergraduate Students

- Aaron Bray, Yale University, 2009
- Joshua Schoenfield, Yale University, 2009–2010
- Daksha Rajagopalan, Yale University, 2010
- Dan Steinbrook, Yale University, 2011
- Jonathan Richardson, Yale University, 2011
- Joseph Rowley, University of Utah, 2011–2012
- Joshua Wallace, University of Utah, 2012–2014
- Louis Oberto, Penn State (2014 REU student)
- Ju Zhu, UIUC (2014 summer student)
- Ethan Lake, University of Utah, 2014–2016
- Tessa McNamee, University of Utah (2019 ACCESS)

Xiaojing Lin, Peking University (2021)

Jadyn Eakins, University of Utah (2022–)

TEACHING ACTIVITIES

- Developed Astro PhD core course ASTR/PHYS 7130 “Radiative Processes”
- Developed new graduate Cosmology course (ASTR/PHYS 5580)

- Taught ASTR/PHYS 7130 “Radiative Processes” in Spring 2012, 2013, 2015, 2017, 2019, and 2020 (with PHYS 7120)
- Taught ASTR/PHYS 5580 “Cosmology” in Fall 2012, 2013, 2014, 2016, 2018, 2020, 2021, and 2022 [In Fall 2013, the lectures had been delivered (through Polycom) to students at University of Hawaii at Manoa as their Cosmology course, in exchange for a “Quantum Field Theory” Course.]
- Taught ASTR/PHYS 4080 “Introduction to Cosmology” in Fall 2015
- Taught ASTR/PHYS 4070 “Extragalactic Astrophysics” in Fall 2019 and 2020, and Spring 2023
- Taught ASTR/PHYS 1060 “The Universe” in Spring 2014 and Fall 2015
- Instructor for PHYS 7820 “Faculty Research Overview” in Fall 2019 and 2020

- Talks for undergraduate seminar series (04/2012, 10/2014, 04/2017, 04/2020, 03/2022)
- Talks for REU students (07/2014, 07/2016)

UNIVERSITY AND DEPARTMENT SERVICE AND COMMITTEES

University

- The Graduate School’s review committee for the University Teaching Assistantship (2021)

College of Science

- Reviewer for the College of Science Graduate Student Emergency Fund (2021)
- Committee on Admission Standards & Degree Programs (2011–2015, 2014–2015[Chair])
- Convocation Committee (2012, 2013, 2014, 2015, 2016, 2017)
- Dean’s Kitchen Cabinet (2012–2014)

Department of Physics and Astronomy

- Junior Faculty Mentor (2020–2021)
- Director of Graduate Studies (2019–2020, 2020–2021)
- Graduate Review Committee (Spring 2020, 2020–2021)
- Graduate Program & Curriculum Committee (2019–2020[Chair], 2020–2021[Chair], 2021–2022, 2022–2023)
- Graduate Admissions & Recruitment Committee (2019–2020, 2020–2021, 2021–2022[Admissions Chair])
- Graduate Comprehensive Exams Committee (2019–2020, 2020–2021, 2021–2022[Chair], 2022–2023[Chair])
- Graduate Program Committee (Spring 2019)
- Astronomy Faculty Search Committee (Member, 2015–2016, hire of Gail Zasowski and Daniel Wik; Member, 2018–2019, 2020–2021)

- Admissions Committee (2012–2013, 2013–2014, 2016–2017)
- Common Exam Committee (2012–2013, 2015–2016, 2018–2019)
- Recruitment Committee (2012–2013)
- High Energy and AstroPhysics (HEAP) Seminar Committee, Chair¹ (2012–2013), Member (2013–2014), Chair (2014–2015), Member (2015–2016, 2016–2017)
- Astronomy Program Task Forces, Member (2012–2013, 2013–2014, 2018–2019, 2019–2020, 2020–2021), Chair (2014–2015, 2015–2016, 2016–2017)
- Colloquium Committee, Chair (2013–2014), Member (2014–2015, 2016–2017)

MS and PhD Committees

- Member of PhD supervisory committee for 28 students
- Member of Advisory Committee for 3 graduate students (2022)
- Member of MS committee for 1 student.
- Committee member for the MS for Secondary School Teachers (MSSST) program (2018–2019), 5 students

Other

- Design and maintain a brochure advertising the Astronomy and Astrophysics program (2011–)

PRESS AND MEDIA

Press Release [“Discovery points to origin of mysterious ultraviolet radiation”](#), University of Utah, March 9, 2020 [based on the paper *Infalling Gas in a Lyman-alpha Blob* by Ao, Zheng, et al. (2020, Nature Astronomy)].

Press Release [“Nearest Bright ‘Hypervelocity Star’ Found”](#), University of Utah, May 7, 2014 [based on the paper *The First Hypervelocity Star from the LAMOST Survey* by Zheng et al. (2014, ApJ)]. It led to a wide media (web, newspaper, radio, and TV) coverage around the world in many languages.

Consultant to BBC and Bilibili science unit documentary series *Rendezvous with The Future (Episode 3)* (2022)

Interviewed by the [2022 Utah STEM Fest Magazine](#) on studying astronomy and JWST (2022)

KUER interview on JWST’s first images, [“Utah astronomers expect a lot of future surprises from NASA’s Webb Space Telescope”](#), July 2022

KUER interview on JWST science, [“Utah scientists play key roles in the Webb Telescope, before and after launch”](#), Dec 2021

Interviewed by Utah Public Radio, [“John Glenn Remembered By Utah Astronomy Professor”](#), Dec 2016

OUTREACH ACTIVITIES

- Astronomy Interlude (“Nature’s Biggest Telescopes”) at the Faraday Lecture in the Department of Chemistry, University of Utah (Dec 9, 2022)
- Guest Presentation on JWST’s first images for U’s Astronomer’s Summer Camp (July 2022)
- Weekly Astronomy Session for the University’s REFUGES (Refugees Exploring the Foundations of Undergraduate Education in Science) summer program (June–July 2022; 6 weeks)

- Zheng Zheng 2022, [Science Communication Media WeChat Official Account mrsience100](#), “Miraculous Connections in Clauser’s Career: From Astronomy Research to Nobel Prize for Quantum Physics” (in Chinese)
- Jeremy Tinker & Zheng Zheng 2021, [DESI Education & Outreach Blog Post](#), “Congratulations to David Weinberg”
- Zheng Zheng & Pengjie Zhang 2020, [Physics](#), 49(1), 8–16 (also in [WeChat Official Account SJTU_PA](#)), “Peebles’ Physical Universe” (in Chinese)
- Zheng Zheng 2020, [Science Communication Media WeChat Official Account mrsience100](#), “Dyson, Dyson Sphere, and Extraterrestrial Civilizations” (in Chinese)

- Designed a flier on observing the May 20, 2012 Solar Eclipse
- Participated “Scientist in the Spotlight” at the Natural History Museum of Utah for the June 5, 2012 Venus Transit event
- Participated “Astronomy Activity Days” at the Natural History Museum of Utah (10/2012)
- Public talk “The Dark Side of the Universe” at the General Meeting of Salt Lake Astronomical Society (04/17/2013)
- “National Astronomy Day”, the Natural History Museum of Utah (05/2014)
- Presentation on galaxies from my group for a troop of ~20 cub scouts (12/08/2016)
- Guest Speaker for Science Movie Night (Utah Film Center & Natural History Museum of Utah), talk on “Astronomers’ Time Machine and the Reality of Space Travel” (12/13/2016)
- Special Guest Speaker for Salt Lake Comic Con FanX 2017, presentation on “Astronomers’ Time Machine and the Reality of Space Travel” (03/17/2017)
- Special Guest Speaker for Salt Lake Comic Con 2017, presentation on “The Dark Side of the Universe” (09/22/2017)
- Special Guest Speaker for Salt Lake Comic Con 2019 (canceled due to schedule conflict)

MISCELLANEOUS

Referee for *ApJ*, *ApJL*, *MNRAS*, *A&A*, *New Astronomy*, *RAA*, *ApSS*, *JCAP*, *JKAS*, and *SCPMA*
 Division Editor for *Frontiers of Physics* (2022–)
 Associate Editor for *SCIENCE CHINA Physics, Mechanics & Astronomy* (2018–2023)
 Advisor to the APS Innovation Fund project “Departmental Admissions Practices that Maintain Excellence and Diversity in the Face of COVID-19”

External PhD thesis examiner for a foreign institute
External letter writer for promotion/tenure of a faculty member at an R1 university
Reviewer for the New Cornerstone Investigator Program of China
Reviewer for a research proposal to the space research program of the Israeli Ministry of Innovation, Science and Technology
Referee for NAOJ Subaru Telescope Open Use proposals
Reviewer for China-Chile Joint Research Fund (2021)
Panel Reviewer for NSF AST CAREER Proposals
Hubble Space Telescope (HST) Expert external proposal reviewer
XPLOERER PRIZE Reviewer
Panel Reviewer for the NSF Graduate Research Fellowship Program
Panel Reviewer for NASA Astrophysics Theory Program (ATP) Proposal
Reviewer for NASA Postdoctoral Program
Correspondence Expert Reviewer for the Midterm Evaluation of the Strategic Priority Research Program “The Emergence of Cosmological Structure: From the Milky Way to the Deep Universe”, Chinese Academy of Sciences
Reviewer for China Telescope Access Program proposals
Panel member for Telescope Access Program Key Projects, Pilot B Program “The Emergence of Cosmological Structures”, Chinese Academy of Sciences
Reviewer for United States-Israel Binational Science Foundation (BSF) Proposal
Proposal Reviewer for Israel Science Foundation
Panel Reviewer for NASA Astrophysics Data Analysis (ADAP) Proposals
Initiator and co-organizer of ASTROCOFFEE Discussion at the University of Utah (2011 – present)
SOC Co-chair of the international workshop “Halo and Galaxy Assembly Bias” (June, 2019)
SOC Co-chair of the international conference “Studying the Universe with GALaxy suRveys – Revealing the Unlimited in ShangHai” (SUGAR-RUSH; June, 2018)
SOC Co-chair of “Tokyo Spring Cosmic Lyman-Alpha Conference” (March, 2018)
SOC and LOC chair of SnowPAC 2017 “The Snowbird Cosmic Lyman-Alpha Workshop” (March, 2017)
LOC Co-chair of SDSS-III/IV 2014 Collaboration Meeting (July, 2014)
Co-chair of SnowPAC 2012 “Gravitational Lensing in the Age of Survey Science” (March, 2012)
Member of SDSS-III Collaboration Council (University of Utah representative, 2013–2015)
Co-chair of SDSS-IV eBOSS Galaxy Science Working Group (2013–2015)
Judge for the University of Utah REU Symposium (2013)
Co-organizer of CCAPP workshop on Lyman-alpha Emitters (April, 2010), Astro-Lunch Discussion at Yale University (2009–2010), Cosmology Seminar at Yale University (2010–2011), Astrophysics Colloquium at the Institute for Advanced Study (Fall 2007, Spring 2008), Princeton-IAS Postdoc Astrophysics Seminars (Fall 2007), Astrophysics Seminar Series at the IAS (2006)
Member of the American Astronomical Society, the LAMOST-PLUS Collaboration (2008–2015), the SDSS Collaboration Council (IAS representative, 2006–2008)

COLLOQUIA, SEMINARS, AND CONFERENCE TALKS

[Invited talks are marked with *.]

- *114. Invited Speaker for “Online Colloquium Series of Outstanding Overseas Scholars”, School of Physics, Zhejiang University, China, Dec 7, 2022; “A Random Walk in the Cosmic Lyman-alpha Radiation”
- *113. Invited Opening Review Talk (on-line) at the European Astronomical Society (EAS) Annual Meeting Session 2 “Galaxies as cosmological tracers”, Valencia, Spain, Jun 30, 2022; “Theoretical and Observational Study of Assembly Bias”
- *112. Idaho State University, Department of Physics, Pocatello, ID, Oct 11, 2021; “An Exploration of Lyman-alpha Emission from Galaxies” (Zoom)
- *111. University of Massachusetts, Astronomy Department, Amherst, MA, Oct 8, 2020; “The Curious Case of Lyman-alpha Emitting Galaxies” (Zoom)
- 110. Colloquium (jointly with Ben Bromley), Department of Physics & Astronomy, University of Utah, Salt Lake City, UT, Oct 18, 2019; “From Cosmology to Exoplanets - the Nobel Prize in Physics 2019”
- 109. 2019 Meeting of the APS Division of Particles and Fields (DPF 2019), Boston, Jul 30, 2019; “Enhancing Dark Energy Constraints from Redshift-Space Galaxy Clustering”
- *108. Invited Workshop “Halo and Galaxy Assembly Bias”, Shanghai, Jun 10, 2019; “The Multivariate Dependence of Halo Bias and a Simplified Description of Central Galaxy Assembly Bias”
- *107. Invited Workshop “Exploring the Universe at Multiple Scales”, Sun Yat-Sen University, Zhuhai, China, Jun 6, 2019; “Recent Progress in Observational Cosmology - a Brief Review”
- *106. Invited Colloquium, Tsinghua Center for Astrophysics, Tsinghua University, Beijing, China, Jun 19, 2018; “Galaxy Kinematics and Color-Magnitude Tomography from Galaxy Clustering”
- 105. Conference “Studying the Universe with GALaxy suRveys – Revealing the Unlimited in ShangHai” (SUGAR-RUSH), Shanghai, Jun 12, 2018; “The Conditional Color-Magnitude Distribution (CCMD) of Galaxies”
- *104. Invited Talk, NASA Jet Propulsion Laboratory (JPL) Astrophysics Colloquium, Pasadena, CA, Apr 26, 2018; “The Curious Case of Lyman-alpha Emitting Galaxies”
- *103. Invited Workshop “Mock Durham: Galaxy Formation for Surveys”, Durham University, Durham, United Kingdom, Apr 18, 2018; “The Conditional Color-Magnitude Distribution (CCMD) of Galaxies”
- *102. Invited Talk, Institute for Advanced Study Informal Astrophysics Seminar, Princeton, NJ, Apr 11, 2018; “The Curious Case of Lyman-alpha Emitting Galaxies”
- 101. Contributed talk, Tokyo Spring Cosmic Lyman-Alpha Workshop (Sakura CLAW), Tokyo, Japan, Mar 30, 2018; “Modeling Lyman-alpha Emission with Galaxy Formation Simulations”

100. Contributed talk, SnowPAC2018 “Big Questions, Big Surveys, Big Data: Astronomy & Cosmology in the 2020s”, Snowbird, UT, Mar 15, 2018; “Toward Accurate and Efficient Modeling of Galaxy Clustering”
- *99. Invited Colloquium, Purple Mountain Observatory, Chinese Academy of Sciences, Nanjing, Feb 2, 2018; “The Curious Case of Lyman-alpha Emitting Galaxies”
- *98. Invited Colloquium, Shanghai Astronomical Observatory, Chinese Academy of Sciences, Shanghai, Jan 18, 2018; “The Curious Case of Lyman-alpha Emitting Galaxies”
- *97. Invited Talk, Department of Astronomy, Shanghai Jiao Tong University, Shanghai, Jan 17, 2018; “The Curious Case of Lyman-alpha Emitting Galaxies”
96. The 2nd “Exploring Gas in/around Galaxies (EGG)” collaboration meeting, Shanghai, Dec 6, 2017; “Probing neutral gas environment of galaxies through Lyman-alpha emission”
- *95. Invited Colloquium, National Astronomical Observatories, Chinese Academy of Sciences, Beijing, Jul 12, 2017; “Galaxy Kinematics and Cosmology from Accurately Modeling the Redshift-Space Galaxy Clustering”
- *94. Invited Lunch Seminar, Kavli Institute for the Physics and Mathematics of the Universe, University of Tokyo, Kashiwanoha, Japan, Jul 4, 2017; “Redshift-Space Galaxy Clustering: Accurate Modeling and Galaxy Kinematics”
- *93. Invited APEC Seminar, Kavli Institute for the Physics and Mathematics of the Universe, University of Tokyo, Kashiwanoha, Japan, Jun 29, 2017; “The Curious Case of Lyman-alpha Emitting Galaxies”
- *92. Invited Colloquium, Tsinghua Center for Astrophysics, Tsinghua University, Beijing, China, Jun 22, 2017; “The Curious Case of Lyman-alpha Emitting Galaxies”
- *91. Invited Colloquium, Kavli Institute for Astronomy and Astrophysics at Peking University, Beijing, China, Jun 15, 2017; “Anisotropic Galaxy Clustering in the Isotropic Universe”
90. KITP Conference: Quantifying and Understanding the Galaxy-Halo Connection, May 16, 2017; “Redshift-Space Galaxy Clustering: Accurate Modeling, Velocity Bias, and Assembly Effect”
- *89. Invited Talk, The Snowbird Cosmic Lyman-Alpha Workshop (SnowCLAW), Snowbird, UT, Mar 23, 2017; “Connections Between Anisotropic Gas Distribution and Properties of Lyman-Alpha Emission from Lyman-Alpha Emitting Galaxies”
- *88. Invited Talk, Workshop on IGM Tomography, Kavli Institute for the Physics and Mathematics of the Universe, University of Tokyo, Kashiwanoha, Japan, Aug 31, 2016; “Connections between LAE Properties and CGM/IGM Anisotropy”

- *87. Invited Colloquium at the Pontifical Catholic University of Chile (PUC, Instituto de Astrofísica), Santiago, Chile, Apr 20, 2016;
“Lyman-alpha Emitting Galaxies: Anisotropic Emission and Anisotropic Clustering”
- *86. Keynote Speaker at the Workshop “Mock Santiago - Preparing for the Next Generation Surveys”, Santiago, Chile, Apr 18, 2016;
“Halo Occupation Distribution” and “Redshift-space Galaxy Clustering: Accurate Mocks from Accurate Modeling”
- *85. Invited Colloquium at the Idaho State University, Department of Physics, Pocatello, ID, Apr 4, 2016;
“Anisotropic Galaxy Clustering in the Isotropic Universe”
- *84. Invited Talk, SnowPAC2016: The Galaxy-Halo Connection, Snowbird, UT, Mar 14, 2016;
“Modeling Small- and Intermediate-Scale Redshift-Space Galaxy Clustering”
- *83. Invited Webinar, Inter-institutional Laboratory for e-Astronomy (LIneA), Brazil, Sep 24, 2015;
“Anisotropic Galaxy Clustering in the Isotropic Universe”
- 82. Colloquium at the University of Utah, Department of Physics & Astronomy, Salt Lake City, UT, Sep 11, 2014; “Anisotropic Galaxy Clustering in the Isotropic Universe”
- 81. LAMOST-PLUS Collaboration Meeting, Beijing, China, Aug 19-20, 2014;
“The First Hypervelocity Star from the LAMOST Survey and Some Related Issues”
- *80. Invited Plenary Talk, SDSS-III/SDSS-IV Collaboration Meeting, Park City, UT, Jul 27 - Aug 1, 2014; “Galaxy Science from eBOSS”
- *79. Invited Colloquium at the Observatories of the Carnegie Institution for Science, Pasadena, CA, Dec 17, 2013;
“Lyman-alpha Emitting Galaxies: Anisotropic Emission and Anisotropic Clustering”
- 78. eBOSS Project Review Meeting, Lawrence Berkeley National Laboratory, Berkeley, CA, Dec 12-13, 2013; “Galaxy Science from eBOSS”
- 77. Colloquium at the University of Utah, Department of Physics & Astronomy, Salt Lake City, UT, Oct 1, 2013; “Illuminating the Darkness in the Universe”
- *76. Workshop “Lyman Alpha as an Astrophysical Tool”, Nordita, Stockholm, Sweden, Sep 9, 2013;
Invited Talk “Shedding (Lyman-alpha) Light on the CircumGalactic and InterGalactic Media”
- *75. University of Nevada, Las Vegas, Astronomy Colloquium, NV, Mar 8, 2013;
Invited Talk “A Theoretical Exploration of Lyman-alpha Emitting Galaxies”
- *74. Case Western Reserve University, Astronomy Colloquium, Cleveland, OH, Feb 27, 2013;
Invited Talk “A Theoretical Exploration of Lyman-alpha Emitting Galaxies”
- 73. 221st Meeting of the American Astronomical Society, Long Beach, CA, Jan 10, 2013;
Contributed Talk “Anisotropic Lyman-alpha Emission”

- *72. Meeting “Exploring the Dark Universe: Frontier of Cosmology and Astrophysics in the 21st Century”, Tucson, AZ, Oct 6-8, 2012;
Invited Talk “A Theoretical Exploration of Lyman-alpha Emitting Galaxies”
- *71. 220th Meeting of the American Astronomical Society, Meeting-in-a-Meeting “Lyman-Alpha Emitters as Probes of Galaxy Formation and Cosmology”, Anchorage, Alaska, June 10-14, 2012;
Invited Talk “Large-Scale Structure of Lyman-Alpha Emitters from Radiative Transfer Modeling”
- *70. Workshop on Ecosystems of Galaxies, University of Science and Technology of China, Hefei, China, May 21-25, 2012;
Invited Talk “A Radiative Transfer Study of Lyman-alpha Emitting Galaxies and Non-gravitational Distortions in Galaxy Clustering”
- 69. LAMOST-PLUS Bilateral Workshop, China-West Normal University, Nanchong, Sichuan, China, May 20-22, 2012;
Talk “Hypervelocity Stars: Recent Progress and LAMOST Prospects”
- *68. 2012 MPA-IFT Spring Workshop on Large Scale Structures, La Cristalera, Madrid, April 23-27, 2012;
Invited Talk “Non-gravitational Distortions in Galaxy Clustering: Challenges and Opportunities”
- 67. SDSS-III BOSS Lyman-alpha Workshop, Salt Lake City, UT, Mar 15, 2012;
Talk “Detecting Lyman-alpha Emission Associated with QSO Absorption Systems”
- *66. Arizona State University Cosmology Seminars, Tempe, AZ, Feb 29, 2012;
Invited Talk “A Theoretical Exploration of Lyman-alpha Emitting Galaxies”
- *65. Third Galileo – Xu Guangqi Meeting “The Sun, the Stars, the Universe and General Relativity”, National Astronomical Observatories, Beijing, China, October 11-15, 2011;
Invited Talk “Lyman Alpha Emitters: Radiative Transfer Modeling and New Effects in Galaxy Clustering”
- 64. Conference “New Horizons for High Redshifts”, Institute of Astronomy, University of Cambridge, United Kingdom, July 25-29, 2011;
Contributed Talk “Lyman Alpha Emitters: Radiative Transfer Modeling and New Effects in Galaxy Clustering”
- *63. Conference “The Cosmic Odyssey of Baryons: Accreting, Outflowing and Hiding”, Marseille, France, June 20-24, 2011;
Invited Review “Lyman-alpha Fluorescence Simulations”
Contributed Talk “Shedding (Lyman-alpha) Light on the Circum-Galactic and Inter-Galactic Media”
- *62. BOWTIE Seminar, University of Utah, Department of Physics and Astronomy, Salt Lake City, UT, Mar 11, 2011;
“What Can We Learn from Galaxy Clustering?”
- *61. Colloquium at University of Utah, Department of Physics and Astronomy, Salt Lake City, UT, Mar 10, 2011;
“Radiative Transfer Modeling of Lyman Alpha Emitters and New Effects in Galaxy Clustering”

- *60. Colloquium at University of Oklahoma, Department of Physics and Astronomy, Norman, OK, Mar 8, 2011;
“Radiative Transfer Modeling of Lyman Alpha Emitters and New Effects in Galaxy Clustering”
- *59. Colloquium at University of California, San Diego, Center for Astrophysics & Space Sciences Seminar, San Diego, CA, Feb 18, 2011;
“Radiative Transfer Modeling of Lyman Alpha Emitters and New Effects in Galaxy Clustering”
- *58. University of Arizona, Steward Observatory/NOAO Joint Colloquium, Tucson, AZ, Feb 14, 2011;
“Radiative Transfer Modeling of Lyman Alpha Emitters and New Effects in Galaxy Clustering”
- *57. Colloquium at University of Waterloo, Department of Physics and Astronomy, Waterloo, Ontario, Canada, Feb 4, 2011;
“Radiative Transfer Modeling of Lyman Alpha Emitters and New Effects in Galaxy Clustering”
- *56. Perimeter Institute for Theoretical Physics, Cosmology & Gravitation Seminars, Waterloo, Ontario, Canada, Feb 3, 2011;
“Galaxy Evolution from Galaxy Clustering”
- *55. University of Illinois at Urbana-Champaign, Astrophysics Colloquium, Urbana, IL, Jan 20, 2011;
“Radiative Transfer Modeling of Lyman Alpha Emitters and New Effects in Galaxy Clustering”
- 54. National Astronomical Observatories, Chinese Academy of Sciences, Beijing, Aug 13, 2010;
“Radiative Transfer Modeling of Lyman Alpha Emitters and New Effects in Galaxy Clustering”
- *53. Institute for the Physics and Mathematics of the Universe, Kashiwa, Japan, (Astronomy - Cosmology - Particle Physics Seminar), July 27, 2010;
“Radiative Transfer Modeling of Lyman Alpha Emitters and New Effects in Galaxy Clustering”
- 52. Conference on “The First Galaxies, Quasars & Gamma-Ray Bursts”, Pennsylvania State University, June 6-10, 2010;
“Radiative Transfer Modeling of Lyman Alpha Emitters”
- *51. Carnegie Mellon University, McWilliams Center for Cosmology seminar, Pittsburgh, PA, May 19, 2010;
“Radiative Transfer Modeling of Lyman Alpha Emitters and New Effects in Galaxy Clustering”
- 50. Canadian Institute for Theoretical Astrophysics, Toronto, Canada, May 7, 2010;
“Radiative Transfer Modeling of Lyman Alpha Emitters and New Effects in Galaxy Clustering”
- 49. Astronomy Colloquium at University of British Columbia, Department of Physics and Astronomy, Vancouver, Canada, May 3, 2010;
“Radiative Transfer Modeling of Lyman Alpha Emitters and New Effects in Galaxy Clustering”
- 48. Center for Cosmology and AstroParticle Physics Workshop for Lyman-alpha Emitters, The Ohio State University, Columbus, OH, Apr 26, 2010;
“Radiative Transfer Modeling of Lyman Alpha Emitters”

47. University of Massachusetts, Astronomy Department, Amherst, MA, Apr 2, 2010;
“Radiative Transfer Modeling of Lyman Alpha Emitters and New Effects in Galaxy Clustering”
- *46. Harvard-Smithsonian Center for Astrophysics, Institute for Theory and Computation Seminar, Cambridge, MA, Mar 30, 2010;
“Radiative Transfer Modeling of Lyman Alpha Emitters and New Effects in Galaxy Clustering”
45. Aspen Winter Conference on Astrophysics “The High Redshift Universe: A Multi-Wavelength View”, Aspen, CO, Feb 12, 2010;
“Radiative Transfer Modeling of Lyman Alpha Emitters and New Effects in Galaxy Clustering”
44. Talk at 215th AAS Meeting, Washington, DC, Jan 4, 2010;
“Radiative Transfer Modeling of Lyman Alpha Emitters”
- *43. Princeton University/Institute for Advanced Study Computational Cosmology and Galaxy Formation Seminar, Princeton, NJ, Dec 7, 2009;
“Radiative Transfer Modeling of Lyman Alpha Emitters and New Effects in Galaxy Clustering”
- *42. Seminar, Yale Center for Astronomy & Astrophysics, Yale University, New Haven, CT, Oct 13, 2009;
“Dance of Lyman-alpha Photons – Radiative Transfer Modeling of Lyman Alpha Emitters”
41. Yale University/WIYN One Degree Imager (ODI) Survey Workshop, New Haven, CT, Oct 3, 2009;
“Large Area Survey of Lyman Alpha Emitters with ODI”
- *40. Colloquium at University of Alabama, Tuscaloosa, AL, Jul 9, 2009;
“Galaxy Evolution from Galaxy Clustering”
39. Astrophysics Seminar, Institute for Advanced Study, Princeton, NJ, May 21, 2009;
“Dance of Lyman-alpha Photons – Modeling Lyman Alpha Emitters Around the End of Reionization”
- *38. Lunch Talk at Peking University (KIAA + Astronomy Department), Beijing, Apr 20, 2009;
“Studying Galaxy Evolution from Galaxy Clustering”
- *37. KIAA program “Large Scale Structure and Galaxy Formation with LAMOST”, Beijing, Apr 16, 2009;
Invited Talk “Galaxy Evolution with LAMOST – A Biased View”
- *36. Colloquium at University of Utah, Salt Lake City, UT, Mar 12, 2009;
“Galaxy Evolution from Galaxy Clustering”
35. Lunch Talk at Yale University, New Haven, CT, Mar 4, 2009;
“Galaxy Evolution from Galaxy Clustering”
- *34. Lunch Talk at KITP/UCSB, Santa Barbara, CA, Jan 30, 2009;
“What and How Can We Learn about Galaxy Evolution from Galaxy Clustering?”
- *33. Colloquium at University of California, Santa Cruz, CA, Jan 28, 2009;
“Galaxy Evolution from Galaxy Clustering”

- *32. Colloquium at Observatories of the Carnegie Institution of Washington, Pasadena, CA, Jan 20, 2009;
“Galaxy Evolution from Galaxy Clustering”
- *31. Colloquium at Astronomy & Astrophysics Department, Penn State University, University Park, PA,
Dec 4, 2008;
“Galaxy Evolution from Galaxy Clustering”
- 30. LAMOST-PLUS Meeting on Galactic Structure, Beijing China, Oct 24, 2008;
“Hypervelocity Stars with LAMOST”
- 29. Group meeting of the Microsymposium on Frontiers of Observational Cosmology, Princeton Center
for Theoretical Science, Princeton, NJ, Sep 29, 2008;
“LAMOST and Its Prospects in Measuring Dark Energy Equation of State”
- *28. Lunch Talk at Physics and Astronomy Department, University of Pittsburgh, Pittsburgh, PA, Feb
29, 2008;
“Lyman-alpha Radiative Transfer in the InterGalactic Medium”
- *27. Colloquium at Physics and Astronomy Department, University of Pittsburgh, Pittsburgh, PA, Feb
28, 2008;
“Galaxy Evolution from Galaxy Clustering”
- *26. Lunch Talk at Department of Astronomy, Columbia University, New York, NY, Nov 27, 2007;
“Studying Galaxy Evolution from Galaxy Clustering”
- *25. Seminar at Canadian Institute for Theoretical Astrophysics, Toronto, Canada, Oct 22, 2007;
“What Can We Learn about Galaxy Evolution from Galaxy Clustering?”
- *24. Colloquium at Shanghai Astronomical Observatory, Shanghai, China, Aug 31, 2007;
“What Can We Learn about Galaxy Evolution from Galaxy Clustering?”
- 23. International Workshop on Legacy of Multi-wavelength Surveys, Xining, China, Aug 19 - 25, 2007;
“Galaxy Evolution from Galaxy Clustering”
- *22. Workshop on Dark Matter and Dark Energy, Beijing, China, Aug 13 - 17, 2007;
Invited Talk “Radiative Transfer Effect on Ultraviolet Pumping of the 21cm Line”
- 21. Hubble Fellows Symposium, Space Telescope Science Institute, Baltimore, MD, Apr 2 - 4, 2007;
“Modeling Clustering of Luminous Red Galaxies”
- 20. The 7th Sino-German Workshop on “Galaxies, Super-massive Black Holes and the Cosmic Web”,
Shanghai, China, Sep 25, 2006;
“Evolution of Galaxies from $z\sim 1$ to $z\sim 0$ from Galaxy Clustering”
- *19. SDSS Collaboration Meeting, Seoul National University, Korea, Sep 22, 2006;
Invited Talk “Modeling LRG Clustering”
- *18. 2nd KIAS Workshop on Cosmology and Structure Formation, KIAS, Seoul, Korea, Sep 21, 2006;
Invited Talk “Galaxy Clustering and the Halo Occupation Distribution”

- *17. Cosmology Group Seminar, Department of Astronomy, University of California, Berkeley, CA, May 16, 2006;
“Cosmology and Galaxy Evolution from Galaxy Clustering”
16. Hubble Fellows Symposium, Space Telescope Science Institute, Baltimore, MD, Apr 20 - 21, 2006;
“Evolution of Galaxies from HOD Modeling of DEEP2 and SDSS Galaxy Clustering”
15. Talk at SDSS Large Scale Structure Group Meeting, Columbus, Ohio, Jan 4 - 5, 2006;
“HOD Modeling of LRG Clustering”
14. KICP Inaugural Symposium “New Views of the Universe”, Chicago, IL, Dec 8 - 13, 2005;
“Breaking the Degeneracies between Cosmology and Galaxy Bias”
13. Department of Physics, University of Nevada, Las Vegas, Jun 29, 2005;
“Constraining Galaxy Bias and Cosmology Using Galaxy Clustering Data”
12. Hubble Fellows Symposium, Space Telescope Science Institute, Baltimore, MD, Apr 7 - 8, 2005;
“Breaking the Degeneracies between Cosmology and Galaxy Bias”
- *11. National Astronomical Observatories of China, Beijing, Mar 21, 2005;
Invited Talk “Constraining Galaxy Bias and Cosmology Using Galaxy Clustering Data”
10. The 3rd Oxford-Princeton Workshop on Astrophysics and Cosmology, Princeton University, Princeton, NJ, Feb 28 - Mar 2, 2005;
“Breaking the Degeneracies between Cosmology and Galaxy Bias”
9. Astronomy Department Colloquium, Ohio State University, Columbus, Ohio, Jun 3, 2004;
“Constraining Galaxy Bias and Cosmology Using Galaxy Clustering Data”
8. Astrophysics Seminar, Institute for Advanced Study (IAS), Princeton, New Jersey, Jan 14, 2004;
“Constraining Galaxy Bias and Cosmology Using Galaxy Clustering Data”
- *7. Theoretical Astrophysics Including Relativity (TAPIR) Seminar, Caltech, Pasadena, CA, Dec 18, 2003;
“Constraining Galaxy Bias and Cosmology Using Galaxy Clustering Data”
- *6. Theoretical Astrophysics Seminar, Fermi National Accelerator Laboratory, Batavia, IL, Dec 15, 2003;
“Constraining Galaxy Bias and Cosmology Using Galaxy Clustering Data”
5. SDSS Collaboration Meeting, Fermilab, Chicago, Illinois, Oct 2003;
Talk at Large Scale Structure Group Meeting: “Halo Occupation Distribution Parameters from Projected Galaxy Correlation Functions: Luminosity and Color Dependence”
4. SF03 Cosmology Workshop, Santa Fe, New Mexico, Jul 2003;
“Constraining Galaxy Bias and Cosmology Using SDSS Data”
3. Great Lakes Cosmology Workshop VII, University of Michigan, Ann Arbor, Michigan, May 2003;
“Are Galaxy Bias and Cosmology Degenerate?”

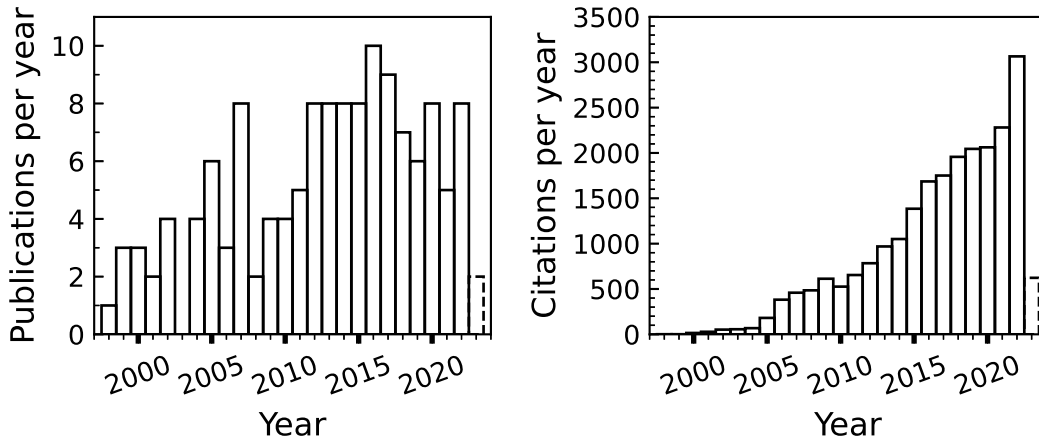
2. China-Germany Workshop on Cosmology, Shanghai, China, Nov 1998;
“An HST Photometric Study of Ultraluminous Infrared Galaxies”
1. Zhang Heng Symposium on Astrophysics, Hohhot, China, Jul 1998;
“Gamma-Ray Absorption in the Pulsar Magnetospheres”

PUBLICATIONS

In Refereed Journals (>23,000 citations and h -index=59 as of Feb 2023)

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Publication Statistics as of Feb 2023 (data from <http://adsabs.harvard.edu>)

[N.B. Publications 50–136 in the list are affiliated with the University of Utah.]

136. Satoshi Kikuta, et al. 2023, ApJ, accepted
“UV and Ly α halos of Ly α emitters across environments at $z = 2.84$ ”
135. Li Yang, **Zheng Zheng**, & T.-S. Kim 2023, RAA, accepted (arXiv:2302.04628)
“Constraining the Temperature-Density Relation of the Inter-Galactic Medium from Analytically Modeling Lyman-alpha Forest Absorbers”
134. Xiaojing Lin, **Zheng Zheng**, & Zheng Cai 2022, ApJS, 262, 38
“Probing the Diffuse Lyman-alpha Emission on Cosmological Scales: Ly α Emission Intensity Mapping Using the Complete SDSS-IV eBOSS”
133. Xiaoju Xu, **Zheng Zheng**, & Qi Guo 2022, MNRAS, 516, 4276
“Conditional colour-magnitude distribution of central galaxies in galaxy formation models”
132. Callie Clontz, David Wake, & **Zheng Zheng** 2022, MNRAS, 515, 2224
“The H α luminosity and stellar mass dependent clustering of star-forming galaxies at $0.7 < z < 1.5$ with 3D-*HST*”
131. Li Yang, **Zheng Zheng**, Hélion du Mas des Bourboux, Kyle Dawson, Matthew M. Pieri, Graziano Rossi, Donald P. Schneider, Axel de la Macorra, & Adrean Muñoz Gutiérrez 2022, ApJ, 935, 121
“Metal Lines Associated with the Ly α Forest from eBOSS Data”
130. Tsevi Mazeh, et al. 2022, MNRAS, 517, 4005
“Probable Dormant Neutron Star in a Short-Period Binary System”

129. Di-Chang Chen, et al. 2022, AJ, 163, 249
“Planets Across Space and Time (PAST). III. Morphology of the Planetary Radius Valley as a Function of Stellar Age and Metallicity in the Galactic Context Revealed by the LAMOST-Gaia-Kepler Sample”
128. Abdurro’uf, et al. 2022, ApJS, 259, 35
“The Seventeenth Data Release of the Sloan Digital Sky Surveys: Complete Release of MaNGA, MaStar and APOGEE-2 Data”
127. Di-Chang Chen, et al. 2021, AJ, 162, 100
“Planets Across Space and Time (PAST). II: Catalog and Analyses of the LAMOST-Gaia-Kepler Stellar Kinematic Properties”
126. Kevin McCarthy, **Zheng Zheng**, Hong Guo, Wentao Luo, & Yen-Ting Lin 2021, MNRAS, 509, 380 (2022)
“On the Constraints of Galaxy Assembly Bias in Velocity Space”
125. Di-Chang Chen, et al. 2021, ApJ, 909, 115
“Planets Across Space and Time (PAST). I. Characterizing the Memberships of Galactic Components and Stellar Ages: Revisiting the Kinematic Methods and Applying to Planet Host Stars”
124. Nakul Gangoli, Anson D’Aloisio, Fahad Nasir, & **Zheng Zheng** 2021, MNRAS, 501, 5294
“Constraining Reionization in Progress at $z=5.7$ with Lyman- α Emitters: Voids, Peaks, and Cosmic Variance”
123. Kevin McCarthy, **Zheng Zheng**, & Enrico Ramirez-Ruiz 2020, MNRAS, 499, 5220
“Constraining Delay Time Distribution of Binary Neutron Star Mergers from Host Galaxy Properties”
122. eBOSS Collaboration 2021, Phys. Rev. D, 103, 083533
“The Completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: Cosmological Implications from two Decades of Spectroscopic Surveys at the Apache Point observatory”
121. Jifeng Liu, **Zheng Zheng**, Roberto Soria, et al. 2020, ApJ, 900, 1
“Phase-dependent Study of Near-infrared Disk Emission Lines in LB-1”
120. Yiping Ao, **Zheng Zheng**, Christian Henkel, Shiyu Nie, et al. 2020, Nature Astronomy, 4, 670
“Infalling Gas in a Lyman- α Blob”
119. Jiani Ding, Zheng Cai, J. Xavier Prochaska, H. Finley, Xiaohui Fan, **Zheng Zheng**, H. Fathivavsari, & P. Petitjean 2020, ApJ, 889, L12
“Deep Hubble Space Telescope Imaging on the Extended Ly α Emission of a QSO at $z = 2.19$ with Damped Lyman Alpha System as a Natural Coronagraph”
118. R. Marques-Chaves, et al. 2020, MNRAS, 492, 1257
“Rest-frame UV properties of luminous strong gravitationally lensed Ly α emitters from the BELLS GALLERY Survey”

117. R. Ahumada, et al. 2020, ApJS, 249, 3
“The Sixteenth Data Release of the Sloan Digital Sky Surveys: First Release from the APOGEE-2 Southern Survey and Full Release of eBOSS Spectra”
116. Jifeng Liu, Haotong Zhang, et al. 2019, Nature, 575, 618
“A wide starblack-hole binary system from radial-velocity measurements”
115. Shiro Mukae, et al. 2020, ApJ, 896, 45
“3D Distribution Map of HI Gas and Galaxies Around an Enormous Ly α Nebula and Three QSOs at $z = 2.3$ Revealed by the HI Tomographic Mapping Technique”
114. Zhaoyu Wang, et al. 2019, ApJ, 879, 71
“Accurate Modeling of the Projected Galaxy Clustering in Photometric Surveys: I. Tests with Mock Catalogs”
113. Zhenyuan Wang, et al. 2021, ApJ, 907, 4
“ The Breakdown Scale of H I Bias Linearity”
112. Xiaoju Xu & **Zheng Zheng** 2020, MNRAS, 492, 2739
“Galaxy assembly bias of central galaxies in the Illustris simulation”
111. D. S. Aguado, et al. 2019, ApJS, 240, 23
“The Fifteenth Data Release of the Sloan Digital Sky Surveys: First Release of MaNGA Derived Quantities, Data Visualization Tools and Stellar Library”
110. Raphael Sadoun, Emilio Romano-Diaz, Isaac Shlosman, **Zheng Zheng** 2019, MNRAS, 484, 4601
“Lyman- α Properties of Simulated Galaxies in Overdense Regions: Effects of Galactics Winds at $z > 6$ ”
109. Hong Guo, Xiaohu Yang, Anand Raichoor, **Zheng Zheng**, et al. 2019, ApJ, 871, 147
“Evolution of the Star-Forming Galaxies from $z=0.7$ to 1.2 with eBOSS Emission Line Galaxies”
108. Kevin McCarthy, **Zheng Zheng**, & Hong Guo 2019, MNRAS, 487, 2424
“The Effects of Galaxy Assembly Bias on the Inference of Growth Rate from Redshift-Space Distortions”
107. Rupert A.C. Croft, Jordi Miralda-Escudé, **Zheng Zheng**, Michael Blomqvist, & Matthew Pieri 2018, MNRAS, 481, 1320
“Intensity mapping with SDSS/BOSS Lyman- α emission, quasars and their Lyman- α forest”
106. Kaustav Mitra, Suchetana Chatterjee, Michael A. DiPompeo, Adam D. Myers, & **Zheng Zheng** 2018, MNRAS, 477, 45
“The Halo Occupation Distribution of Obscured Quasars: Revisiting the Unification Model”
105. Haojie Xu, **Zheng Zheng**, Hong Guo, Ying Zu, Idit Zehavi, & David H. Weinberg 2018, MNRAS, 481, 5470
“The Conditional Colour-Magnitude Distribution: I. A Comprehensive Model of the Colour-Magnitude-Halo Mass Distribution of Present-Day Galaxies”

104. Xiaoju Xu & **Zheng Zheng** 2018, MNRAS, 479, 1579
“Dependence of Halo Bias and Kinematics on Assembly Variables”
103. Matthew Cornachione, Adam Bolton, Yiping Shu, **Zheng Zheng**, et al. 2018, ApJ, 853, 148
“The BOSS Emission-Line Lens Survey V. Morphology and Substructure of Lensed Lyman- α Emitters at redshift $z \approx 2.5$ in the BELLS GALLERY”
102. SDSS Collaboration, Abolfathi, B., et al. 2018, ApJS, 235, 42
“The Fourteenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the extended Baryon Oscillation Sky Survey and from the second phase of the Apache Point Observatory Galactic Evolution Experiment”
101. Hong Guo, Cheng Li, **Zheng Zheng**, H. J. Mo, Y. P. Jing, Ying Zu, S. H. Lim, & Haojie Xu 2017, ApJ, 846, 61
“Constraining the HI-Halo Mass Relation From Galaxy Clustering”
100. Subo Dong, Ji-Wei Xie, Ji-Lin Zhou, **Zheng Zheng**, & Ali Luo 2018, PNAS, 115, 266
“LAMOST telescope reveals that Neptunian cousins of hot Jupiters are mostly single offspring of stars that are rich in heavy elements”
99. Jia-Ni Ye, Hong Guo, **Zheng Zheng**, & Idit Zehavi 2017, ApJ, 841, 45
“Properties and Origin of Galaxy Velocity Bias in the Illustris Simulation”
98. Michael R. Blanton, et al. 2017, AJ, 154, 28
“Sloan Digital Sky Survey IV: Mapping the Milky Way, Nearby Galaxies and the Distant Universe”
97. Alex Smith, Shaun Cole, Carlton Baugh, **Zheng Zheng**, Raul Angulo, Peder Norberg, & Idit Zehavi 2017, MNRAS, 470, 4646
“A Lightcone Catalogue from the Millennium-XXL Simulation”
96. Rui Marques-Chaves, Ismael Pérez-Fournon, Yiping Shu, et al. 2017, ApJ, 834, L18
“Discovery of a Very Bright and Intrinsically Very Luminous, Strongly Lensed Ly α Emitting Galaxy at $z = 2.82$ in the BOSS Emission-Line Lens Survey”
95. Ji-Wei Xie, Subo Dong, Zhaohuan Zhu, Daniel Huber, **Zheng Zheng**, et al. 2016, PNAS, 113, 11431
“Exoplanet orbital eccentricities derived from LAMOST-Kepler analysis”
94. Yiping Shu, Adam Bolton, et al. 2016, ApJ, 833, 264
“The BOSS Emission-Line Lens Survey. IV. Smooth Lens Models for the BELLS GALLERY Sample”
93. Hong Guo, **Zheng Zheng**, Peter S. Behroozi, et al. 2016, ApJ, 831, 3
“Galaxy Three-Point Correlation Functions and Halo/Subhalo Models”
92. SDSS Collaboration, Albareti, F. D., et al. 2017, ApJS, 233, 25
“The Thirteenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-IV Survey MAPPING Nearby Galaxies at Apache Point Observatory”
91. Raphael Sadoun, **Zheng Zheng**, & Jordi Miralda-Escudé 2017, ApJ, 839, 44
“On the decreasing fraction of Strong Ly α Emitters around $z \sim 6-7$ ”

90. Yiping Shu, Adam Bolton, Christopher Kochanek, Masamune Oguri, Ismael Perez-Fournon, **Zheng Zheng**, et al., 2016, ApJ, 824, 86
“The BOSS Emission-Line Lens Survey. III. : Strong Lensing of Ly α Emitters by Individual Galaxies”
89. Samuel Cabot, Renyue Cen, & **Zheng Zheng** 2016, MNRAS, 462, 1076
“C IV and He II Line Emission of Lyman Alpha Blobs: Powered by Shock Heated Gas”
88. Ethan Lake, **Zheng Zheng**, & Subo Dong 2016, MNRAS, 465, 2010
“Detecting Extrasolar Asteroid Belts Through Their Microlensing Signature”
87. Ethan Lake & **Zheng Zheng** 2016, MNRAS, 465, 2018
“Gravitational Lensing by Ring-Like Structures”
86. Haojie Xu, **Zheng Zheng**, Hong Guo, Ju Zhu, & Idit Zehavi, 2016, MNRAS, 460, 3647
“On the Clustering of Faint Red Galaxies”
85. Hong Guo, **Zheng Zheng**, Peter S. Behroozi, et al. 2016, MNRAS, 459, 3040
“Modelling Galaxy Clustering: Halo Occupation Distribution versus Subhalo Matching”
84. Dawson, K., et al., 2016, AJ, 151, 44
“The SDSS-IV extended Baryon Oscillation Spectroscopic Survey: Overview and Early Data”
83. Ao, Y., et al., 2015, A&A, 581, A132
“What Powers Lyman-alpha Blobs?”
82. **Zheng Zheng** & Hong Guo 2016, MNRAS, 458, 4015
“Accurate and Efficient Halo-based Galaxy Clustering Modelling with Simulations”
81. Hong Guo, **Zheng Zheng**, et al. 2015, MNRAS, 453, 4368
“Redshift-Space Clustering of SDSS Galaxies — Luminosity Dependence, Halo Occupation Distribution, and Velocity Bias”
80. Jeffrey L. Carlin, et al. 2015, AJ, 150, 4
“Estimation of Distances to Stars with Stellar Parameters from LAMOST”
79. Rupert Croft, Jordi Miralda-Escudé, **Zheng Zheng**, et al. 2016, MNRAS, 457, 3541
“Large-scale clustering of Lyman-alpha emission intensity from SDSS/BOSS”
78. Ethan Lake, **Zheng Zheng**, Renyue Cen, Raphael Sadoun, Rieko Momose, & Masami Ouchi 2015, ApJ, 806, 46
“On the Diffuse Lyman-alpha Halo Around Lyman-alpha Emitting Galaxies”
77. Alam, S., et al. (SDSS-III Collaboration) 2015, ApJS, 219, 12
“The Eleventh and Twelfth Data Releases of the Sloan Digital Sky Survey: Final Data from SDSS-III”
76. Francesco Shankar, Hong Guo, et al. 2014, ApJ, 797, L27
“On the intermediate-redshift central stellar mass-halo mass relation, and implications for the evolution of the most massive galaxies since $z \sim 1$ ”

75. Hong Guo, **Zheng Zheng**, Y.P. Jing, et al. 2015, MNRAS, 449, L95
“Modeling The Redshift-Space Three-Point Correlation Function in SDSS-III”
74. **Z. Zheng**, E. O. Ofek, S. R. Kulkarni, J. D. Neill, & M. Juric 2014, ApJ, 797, 71
“Probing the Intergalactic Medium with Fast Radio Bursts”
73. Kathleen Grabowski, Jeffrey L. Carlin, Heidi Jo Newberg, et al. 2015, RAA, 15, 849
“Fixing the Reference Frame for PPMXL Proper Motions Using Extragalactic Sources”
72. Hong Guo, **Zheng Zheng**, Idit Zehavi, Kyle Dawson, et al. 2015, MNRAS, 446, 578
“Velocity Bias from the Small Scale Clustering of SDSS-III BOSS Galaxies”
71. S. R. Kulkarni, E. O. Ofek, J. D. Neill, **Z. Zheng**, & M. Juric 2014, ApJ, 797, 70
“Giant Sparks at Cosmological Distances?”
70. **Zheng Zheng**, Jeffrey L. Carlin, Timothy C. Beers, Licai Deng, et al. 2014, ApJL, 785, L23
“The First Hypervelocity Star from the LAMOST Survey”
69. Hong Guo, **Zheng Zheng**, Idit Zehavi, Haojie Xu, et al. 2014, MNRAS, 441, 2398
“The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: modeling of the luminosity and colour dependence in the Data Release 10”
68. Subo Dong, **Zheng Zheng**, Zhaohuan Zhu, et al. 2014, ApJ, 789, L3
“On the Metallicities of Kepler Stars”
67. Suchetana Chatterjee, My Nguyen, Adam Myers, & **Zheng Zheng** 2013, ApJ, 779, 147
“A Direct Measurement of the Mean Occupation Function of Quasars: Breaking Degeneracies between Halo Occupation Distribution Models”
66. **Zheng Zheng** & Joshua Wallace 2014, ApJ, 794, 116
“Anisotropic Lyman-alpha Emission”
65. Ahn, C. P., et al. (SDSS-III Collaboration) 2013, ApJS, 211, 17
“The Tenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-III Apache Point Observatory Galactic Evolution Experiment”
64. Jonathan W. Richardson, Suchetana Chatterjee, **Zheng Zheng**, Adam Myers, Ryan C. Hickox 2013, ApJ, 774, 143
“The Halo Occupation Distribution of X-ray-Bright Active Galactic Nuclei: A Comparison with Luminous Quasars”
63. Yue Shen, Cameron K. McBride, Martin White, **Zheng Zheng**, et al. 2013, ApJ, 778, 98
“Cross-Correlation of SDSS DR7 Quasars and DR10 BOSS Galaxies: The Weak Luminosity Dependence of Quasar Clustering at $z \sim 0.5$ ”
62. Hong Guo, Idit Zehavi, **Zheng Zheng**, David H. Weinberg, et al. 2013, ApJ, 767, 122
“The Clustering of Galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Luminosity and Color Dependence and Redshift Evolution”

61. John K. Parejko, et al. 2013, MNRAS, 429, 98
“The Clustering of Galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: the Low Redshift Sample”
60. Renyue Cen & **Zheng Zheng** 2013, ApJ, 775, 112
“Nature of Lyman Alpha Blobs: Powered by Extreme Starbursts”
59. Dawson, K. S., et al. (SDSS-III Collaboration) 2013, AJ, 145, 10
“The Baryon Oscillation Spectroscopic Survey of SDSS-III”
58. Ahn, C. P., et al. (SDSS-III Collaboration) 2012, ApJS, 203, 21
“The Ninth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-III Baryon Oscillation Spectroscopic Survey”
57. Licai Deng, Heidi Jo Newberg, Chao Liu, Jeffrey L. Carlin, et al. 2012, RAA, 12, 735
“LAMOST Experiment for Galactic Understanding and Exploration (LEGUE) The survey’s science plan”
56. Jeffrey L. Carlin, Sebastien Lepine, Heidi Jo Newberg, Licai Deng, et al. 2012, RAA, 12, 755
“An Algorithm for Preferential Selection of Spectroscopic Targets in LEGUE”
55. Jonathan Richardson, **Zheng Zheng**, Suchetana Chatterjee, Daisuke Nagai, & Yue Shen 2012, ApJ, 755, 30
“The Halo Occupation Distribution of SDSS Quasars ”
54. Nuza, S. E., Sanchez, A. G., Prada, F., et al. 2013, MNRAS, 432, 743
“The Clustering of Galaxies at $z \sim 0.5$ in the SDSS-III Data Release 9 BOSS-CMASS Sample: a Test for the LCDM Cosmology”
53. Hong Guo, Idit Zehavi, & **Zheng Zheng** 2012, ApJ, 756, 127
“A New Method to Correct for Fiber Collisions in Galaxy Two-point Statistics”
52. Kulas, K. R., Shapley, A. E., Kollmeier, J. A., **Zheng, Z.**, Steidel, C. C., & Hainline, K. N. 2012, ApJ, 745, 33
“The Kinematics of Multiple-Peaked Ly α Emission in Star-Forming Galaxies at $z \sim 2 - 3$ ”
51. Chatterjee, S., DeGraf, C., Richardson, J., **Zheng, Z.**, Nagai, D., & Di Matteo, T. 2012, MNRAS, 419, 2657
“The Halo Occupation Distribution of Active Galactic Nuclei”
50. Zehavi, I., Patiri, S., & **Zheng, Z.** 2012, ApJ, 746, 145
“The Growth of Galaxy Stellar Mass Within Dark Matter Halos”
49. DeGraf, C., et al. 2011, MNRAS, 416, 1591
“The Halo Occupation Distribution of Black Holes: Dependence on Mass”
48. White, M., et al. 2011, ApJ, 728, 126
“The Clustering of Massive Galaxies at $z \sim 0.5$ from the First Semester of BOSS Data”

47. **Zheng, Z.**, Cen, R., Weinberg, D. H., Trac, H., & Miralda-Escudé, J. 2011, ApJ, 739, 62
“Extended Lyman-Alpha Emission around Star-forming Galaxies”
46. Zehavi, I., **Zheng, Z.**, Weinberg, D. H., Blanton, M. R., et al. 2011, ApJ, 736, 59
“Galaxy Clustering in the Completed SDSS Redshift Survey: The Dependence on Color and Luminosity”
45. **Zheng, Z.**, Cen, R., Trac, H., & Miralda-Escudé, J. 2011, ApJ, 726, 38
“Radiative Transfer Modeling of Lyman Alpha Emitters. II. New Effects in Galaxy Clustering”
44. **Zheng, Z.**, Cen, R., Trac, H., & Miralda-Escudé, J. 2010, ApJ, 716, 574
“Radiative Transfer Modeling of Lyman Alpha Emitters. I. Statistics of Spectra and Luminosity”
43. Kollmeier, K. A., **Zheng, Z.**, Davé, R., Gould, A., Katz, N., Miralda-Escudé, J., & Weinberg, D. H. 2010, ApJ, 708, 1048
“Lyman-alpha Emission From Cosmic Structure. I. Fluorescence”
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