

# Yongquan Xue

## Curriculum Vitae

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### CONTACT INFORMATION

Department of Astronomy, University of Science and Technology of China (USTC)  
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### EDUCATION

- Ph.D., Astrophysics, Purdue University, May 2008  
Adviser: Prof. Wei Cui  
Dissertation: *Black Hole-Jet Systems: From Blazars to Microquasars*
  - M.S., Astrophysics, Peking University, July 2003  
Adviser: Prof. Guojun Qiao  
Thesis: *Studies on Neutron Stars: Pulsar Death Line, Precession, and Challenges*
  - B.S., Astrophysics, Peking University, July 2000  
Adviser: Prof. Guojun Qiao  
Thesis: *Several Constraint Lines on the Pulsar  $P-\dot{P}$  Diagram*
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### RESEARCH INTERESTS

- Deep Blank-Field Surveys (Radio through X-ray)
  - AGN Demography, Physics, Feedback, and Evolution
  - Co-evolution of Galaxies and Supermassive Black Holes
  - Blazars, X-ray Binaries (Microquasars), and Neutron Stars
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### PROFESSIONAL POSITIONS

- Professor, May 2012 – Present  
Dept. of Astronomy, University of Science and Technology of China
  - Postdoctoral Scholar, May 2008 – May 2012  
Dept. of Astronomy & Astrophysics, The Pennsylvania State University  
Adviser: Prof. William Nielson Brandt (also known as Niel Brandt)
  - Research Assistant, May 2004 – May 2008  
Dept. of Physics, Purdue University  
Adviser: Prof. Wei Cui
  - Research Assistant, September 2000 – July 2003  
Dept. of Astronomy, Peking University  
Adviser: Prof. Guojun Qiao
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### PROFESSIONAL AFFILIATIONS

- Chinese Astronomical Society
- International Astronomical Society (IAU)
- Committee on Space Research (COSPAR)

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## PROFESSIONAL SERVICES (SELECTED)

- Referee for ApJ, RAA, & Progress in Astronomy
  - Correspondence Reviewer for the National Natural Science Foundation of China (NSFC)
  - Correspondence Reviewer for the Chang Jiang Scholars Program, Ministry of Education, China
  - Lecturer, 2nd Fudan Winter School on Astrophysical Black Holes, January 2017  
Lectures: “Active Galactic Nuclei (AGNs): A Brief Observational Tour”  
Dept. of Physics, Fudan University, Shanghai, China
  - SOC Member and Session Chair (“Science Drivers I”)  
The 2016 KIAA-PKU Astrophysics Forum: Future Large Optical-Infrared Facilities in China, Beijing, China, November 2016
  - Session Chair (“Nearby Galaxies”)  
Chinese Astronomical Society Annual Meeting, Beijing, China, October 2015
  - Session Chair (“Nearby and Low-Redshift Galaxies”)  
Chinese Astronomical Society Annual Meeting, Xi’an, China, October 2014
  - SOC and LOC Chair, an international summer school entitled  
“Formation and Co-Evolution of Galaxies and Supermassive Black Holes”, June – July, 2014  
Dept. of Astronomy, University of Science and Technology of China, Hefei, China
  - Telescope Access Program 2014A Peer Review (TAC member), October 2013  
National Astronomical Observatories of China, Beijing, China
  - Lecturer, A COSPAR Capacity Building Workshop entitled  
“High-Energy Astrophysics: An Advanced School for Asian Astronomers”, September 2013  
Lectures: “*Chandra* Deep Fields: AGN Demography, Physics, and Ecology across Cosmic Time”  
Xuyi Observatory Station, Purple Mountain Observatory, Xuyi, Jiangsu, China
  - LOC Chair and SOC Member, an international summer school entitled  
“The Interaction between Stars, Gas and Supermassive Black Holes”, May – June, 2013  
Dept. of Astronomy, University of Science and Technology of China, Hefei, China
  - *Chandra* Cycle 13 Peer Review (Member of the AGN Panel), June 2011  
*Chandra* X-ray Observatory, Boston, Massachusetts, USA
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## COLLABORATIONS

- Member, the Chinese PFS Participation Consortium (CPPC)  
(PFS – Prime Focus Spectrograph; <http://pfs.ipmu.jp>)
  - Member, the Einstein Probe Satellite Science Definition Team  
(*EP*; <http://ep.bao.ac.cn/>)
  - Member, the enhanced X-ray Timing and Polarimetry Mission Science Working Group  
(*eXTP*; <http://www.isdc.unige.ch/extp/>)
  - Member, the Chinese Space Station Telescope (*CSST*) Science Team
  - Core Member, the *Chandra* Deep Field Surveys (CDF-N, CDF-S, E-CDF-S)  
(CDF-N; <http://www2.astro.psu.edu/users/niel/hdf/hdf-chandra.html>)  
(CDF-S; <http://www2.astro.psu.edu/users/niel/cdfs/cdfs-chandra.html>)  
(E-CDF-S; <http://www2.astro.psu.edu/users/niel/ecdfs/ecdfs-chandra.html>)
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## AWARDS, GRANTS, AND ALLOCATED OBSERVING TIME (SELECTED)

- *PFS Spectroscopic Survey: Activities and Evolution of Galaxies and SMBHs*, 2016 – 2020  
CAS Frontier Science Key Research Program (Grant #: QYZDJ-SSW-SLH006), 1st and only Co-I  
(PI: Junxian Wang)
- *Galaxies and Quasars*, 2015 – 2020  
National Natural Science Foundation of China (Grant #: 11421303), Co-I (PI: Junxian Wang)

- *Observations of Dark Energy*, 2015 – 2019  
The 973 Program of China (Grant #: 2015CB857004), Co-I (PI: Xiaohu Yang)
- *7 Ms Chandra Deep Field-South: Placing the Most Stringent Observational Constraints on Highly Obscured Active Galactic Nuclei*, 2015 – 2018  
National Natural Science Foundation of China (Grant #: 11473026), PI
- Outstanding advisor, *2016 Seminar on Science and Society for Freshmen*, 2017  
University of Science and Technology of China
- *MUSE Imaging of Ionised Gas across the Transition Region from Main-Sequence to Starburst Galaxies*, 2017  
VLT MUSE (Proposal #: 0100.B-0764), 25 hours, Co-I (PI: Thomas Hughes)
- Awardee, 2016 Top Ten Scientific Research of School of Physical Sciences, USTC, January 2017  
*Chandra Deep Fields: the Deepest X-ray Images Ever*
- *Physical Processes and Interactions between Galaxies and Their Central Black Holes*, 2015 – 2017  
Fundamental Research Funds for the Central Universities, Ministry of Education of PRC, PI
- *The Understanding and Learning Project Aimed to Talented Students in Astronomy Research at University of Science and Technology of China*, 2014 – 2017  
National Natural Science Foundation of China (Grant #: J1310021), Co-I (PI: Tinggui Wang)
- *High Resolution ALMA Imaging of Gas and Dust in Low- $z$  Gas Rich Galaxies*, 2016, 2017  
Joint ALMA Observatory (Proposal #: 2016.1.01540.S, 2017.1.01647.S), Co-I (PI: Thomas Hughes, Eduardo Ibar)
- *Validating the  $L_{\nu 850}/M_{H_2}$  Calibration with Herschel-ATLAS galaxies up to  $z \approx 0.4$* , 2016, 2017  
Joint ALMA Observatory (Proposal #: 2016.1.00994.S, 2017.1.00287.S), Co-I (PI: Thomas Hughes, Eduardo Ibar)
- *The Emergence of Cosmological Structures*, 2014 – 2016  
The Strategic Priority Research Program (Grant #: XDB09000000), the Chinese Academy of Sciences, Co-I (PI: Shude Mao)
- *MUSE Imaging of Ionised Gas Kinematics in Star-Forming Galaxies at  $z \approx 0.2$  Detected with ALMA*, 2016  
VLT MUSE (Proposal #: 099.B-0550), 10 hours, Co-I (PI: Thomas Hughes)
- *Going Beyond COSMOS with the XMM-SERVS Survey of W-CDF-S, XMM-LSS, and ELAIS-S1*, 2015  
XMM-Newton X-ray Observatory (Proposal #: 078045), 1279 ks, Co-I (PI: Niel Brandt)
- Awardee, the Thousand Young Talents Plan of China, 2012 – 2015
- Startup Funding, University of Science and Technology of China, 2012 – 2015
- *Direct Measurement of the Formation Timescale of Massive Cluster Ellipticals*, 2015  
Keck MOSFIRE (Proposal #: S14B0004N), 2 nights, Co-I (PI: Masayuki Tanaka)
- *The Chandra Deep Field-South: A Peerless Ultradeep Survey for Exploring the Distant X-ray Universe*, 2014  
Chandra X-ray Observatory (Proposal #: 15900132), 3000 ks, Co-I (PI: Niel Brandt)
- *A Wide-Field Survey in the Chandra Deep Field-South Region*, 2014  
Chandra X-ray Observatory (Proposal #: 15900649), 60 ks (GTO), Co-I (PI: Gordon Garmire; Obs. PI: Bin Luo)
- *Coeval Growth and Coevolution of Galaxies and Supermassive Black Holes*, 2013  
National Natural Science Foundation of China (Grant #: 11243008), PI
- *Improved Source Catalogs for the Chandra Deep Field-North and the Extended Chandra Deep Field-South*, 2013  
Chandra X-ray Observatory (Proposal #: 14900135), PI
- *Deep Near-IR Spectroscopy of a Fully Matured Group of Galaxies at  $z=1.61$* , 2012  
Subaru MOIRCS (Proposal #: S12B-023), 2 nights, Co-I (PI: Masayuki Tanaka)
- *The Ultimate Census of Supermassive Black Hole Accretion at  $z \sim 2$* , 2011  
VLT VIMOS (Proposal #: 088.A-0548), 15.5 hours, Co-I (PI: Ezequiel Treister)
- *CDFS: Public Source Catalogs and Active-Galaxy Spectral Constraints*, 2010 – 2011  
Chandra X-ray Observatory (Proposal #: 12900385), Co-I (PI: Niel Brandt)
- *Toward Understanding the Spectral Energy Distribution of Microquasars*, 2007 – 2010  
NASA ADP (Proposal #: 4200185829), 1st and only Co-I (PI: Wei Cui)
- Karl Lark-Horovitz Award, 2008  
*In Recognition of Demonstrated Ability and Exceptional Promise in Research*  
Dept. of Physics, Purdue University
- *Research on Pulsar Radiation Mechanisms*, 2004 – 2006

## PRESS RELEASES

- A New, Faint Population of X-ray Transients (March 2017; incomplete list):
    - *Mysterious Cosmic Explosion Puzzles Astronomers*, NASA
    - *CDF-S Transient: Mysterious Cosmic Explosion Puzzles Astronomers*, Chandra X-ray Observatory
    - *Mysterious Cosmic Explosion Surprises Astronomers Studying the Distant X-ray Universe*, phys.org, eurekaalert.org, sciencedaily.com
  - The 7 Ms Chandra Deep Field-South Survey (January 2017; incomplete list):
    - *Chandra Deep Field-South: Deepest X-ray Image Ever Reveals Black Hole Treasure Trove*, NASA
    - *Deepest X-ray Image Ever Reveals Black Hole Treasure Trove*, Chandra X-ray Observatory
    - *1000 Black Holes in Deepest-Ever X-ray Image*, Sky & Telescope
    - *Deepest-Ever X-ray Image of Space Captures Countless Black Holes*, space.com
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## OBSERVING EXPERIENCE

- The 200-Inch Hale Telescope, four half-nights, January 2015  
Palomar Observatory, Palomar Mountain, California, USA
  - 13.7m Millimeter-Wave Telescope, December 1999 – January 2000  
Delingha Observatory, Qinghai, China
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## TEACHING EXPERIENCE AND STUDENTS & POSTDOCS ADVISED (AT USTC)

### POSTDOCS & STUDENTS

- Ashraf Ayubinia (Graduate Student, USTC), September 2017 – Present
- Xiaozhi Lin (Graduate Student, USTC), September 2017 – Present
- Junyao Li (Graduate Student, USTC), September 2016 – Present
- Tianyi Zhang (Graduate Student, USTC), September 2016 – Present
- Mouyuan Sun (Postdoc, USTC), March 2016 – Present
- Fangyou Gao (Graduate Student, USTC), September 2015 – Present
- Yijun Wang (Graduate Student, USTC), January 2015 – Present
- Xuechen Zheng (Graduate Student, USTC), September 2014 – Present
- Jun Xu (Graduate Student, USTC), September 2013 – Present
- Junyao Li (Undergraduate Student, NWU), November 2015 – June 2016  
Bachelor thesis: “Variabilities of Highly Obscured AGNs in the 4 Ms CDF-S”
- Tianyi Zhang (Undergraduate Student, USTC), July 2014 – June 2016  
Bachelor thesis: “An Improved Source Detection Method in the Extended Chandra Deep Field-South”
- Jiayang Ni (Graduate Student, USTC), September 2013 – June 2016  
Master thesis: “The Correlation Between Intrinsic X-ray Photon Index and Eddington Ratio for AGNs”
- Shifu Zhu (Graduate Student, USTC), September 2013 – June 2016  
Master thesis: “Constraining Intrinsic Power Spectra of Active Galactic Nuclei and Revealing Ultrafast X-ray Variability of TeV Blazars”
- Yuhao Deng (Undergraduate Student, USTC), June 2015 – September 2015
- Chenxu Liu (Graduate Student, SHAO), December 2014 – June 2015
- Wenxia Wang (Undergraduate Student, USTC), September 2013 – September 2014
- Xuechen Zheng (Undergraduate Student, USTC), September 2012 – July 2014  
Bachelor thesis: “Explore the Relation between Long-Term X-ray Variability and Black Hole Mass of AGN”
- Guang Yang (Undergraduate Student, Outstanding Thesis Award, USTC), July 2012 – July 2014  
Bachelor thesis: “Photometric Redshifts in the Hawaii-Hubble Deep Field-North (H-HDF-N)”
- Saiyu Hou (Undergraduate Student, USTC), June 2012 – July 2014

- Bachelor thesis: “Influence of Active Galactic Nucleus on Star Formation of Host Galaxy”
- Jiayang Ni (Undergraduate Student, USTC), September 2012 – July 2013  
Bachelor thesis: “Hierarchical X-ray Flares from TeV Blazars”
- Shifu Zhu (Undergraduate Student, USTC), July 2012 – July 2013  
Bachelor thesis: “X-ray Spectral Variability of TeV Blazars during Rapid Flares”
- Kun Fang (Undergraduate Student, USTC), February 2013 – March 2013

## TEACHING

- *The Physics and Evolution of Active Galactic Nuclei (English)* (Course #AY15222e01; Lecturer), Fall 2015 – 2017
- *Introduction to Astronomy* (Course #02216601; Lecturer), Fall 2013 – 2017
- *Introduction of Science, Technology, and Engineering* (Course #000001L; Guest Lecturer), February 2017  
“Unveiling Highly-Obscured Active Galactic Nuclei with Chandra Deep Fields”
- *Seminar on Science and Society for Freshmen* (Course #60101136; Lecturer), Fall 2015 – Spring 2017
- *Reading of Astronomical Literature* (Course #AY15213; Lecturer), Fall 2014
- *Active Galactic Nuclei* (Course #AY16201a; Co-Lecturer), Spring 2014
- *Overview of Astrophysics* (Course #022X2601; Co-Lecturer), Spring 2013
- *Active Galactic Nuclei* (Course #AY16201a; Teaching Assistant), Spring 2013
- *Introduction to Astronomy* (Course #02216601; Teaching Assistant), Fall 2012
- *Lecture Series: Frontiers of Astrophysics* (Course #02201001; Guest Lecturer), October 2012  
“Dancing with Supermassive Black Holes across Cosmic Time”

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## TEACHING EXPERIENCE AND STUDENTS ADVISED (PRIOR TO JOINING USTC)

- Sharon Xuesong Wang (Graduate Student, Penn State), May 2011 – May 2012  
Dept. of Astronomy & Astrophysics, The Pennsylvania State University
- Guest Lecturer for Astro 485 at Penn State, Fall 2011  
Dept. of Astronomy & Astrophysics, The Pennsylvania State University
- Steve Ehler (Graduate Student, Stanford University), January 2011  
Dept. of Astronomy & Astrophysics, The Pennsylvania State University
- Alex Paul (Exchange Undergraduate Student, University of Bath), January 2008 – May 2008  
Dept. of Physics, Purdue University
- Xuefeng Yuan (Graduate Student, Purdue University), August 2007 – December 2007  
Dept. of Physics, Purdue University
- Kari Frank (REU Student, Luther College), May 2005 – August 2005  
Dept. of Physics, Purdue University
- Teaching Assistant for PHYS 149 & 221 at Purdue University, Spring 2004  
Dept. of Physics, Purdue University

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## SERVICE AND OUTREACH (SELECTED)

- Member, Laboratory Affairs Commission, March 2015 – Present  
Key Laboratory for Research in Galaxies and Cosmology, Chinese Academy of Sciences, Hefei, China
- M.S./Ph.D. Defense Committee Member/Chair  
2017: Luming Sun (USTC/PhD), Jun Lu (USTC/MS), Dongchun Zhu (USTC/MS),  
Yuhan Sun (USTC/MS), Huan Yang (USTC/PhD), Xiaoyan Zhang (USTC/MS)  
2016: Xiaoyang Chen (USTC/MS), Yuan Pei (USTC/MS), Jianhui Lian (USTC/PhD),  
Zhongyang Ma (USTC/PhD), Liming Dou (USTC/PhD)  
2015: René Simbizi (USTC/MS), Yang Chen (USTC/PhD), Mouyuan Sun (XMU/PhD)  
2014: Xiaozhi Lin (USTC/MS), Da Bi (USTC/MS), Gleniese E. Mckenzie (USTC/MS)  
2013: Jingmeng Hao (USTC/PhD), Teng Liu (USTC/PhD), Lin Lin (USTC/PhD)
- Interviewer, School of Physical Sciences, University of Science and Technology of China

- May/June/September 2015 – 2017: Graduate (Internet) Interview  
 March 2015, 2017: Graduate Entrance Second Examination  
 July/August 2012 – 2015, 2017: Physics Summer Camp
- Lecture, “Unveiling Highly-Obscured Active Galactic Nuclei with the Chandra Deep Fields”, May 2017  
 Hangzhou No.2 High School, Hangzhou, China
  - Explaining Super Moon Phenomenon on Anhui Satellite TV and Hefei TV, November 2016
  - Lecturer and Advisor, Future Physicist International Summer Camp (FPISC), July 2013 – 2016  
 Lecture: “Lifting the Veil on Deeply Buried Supermassive Black Holes in the Universe”  
 Students (2016): Daniel Tang (UWA), Zhiying Mao (USTC), Sonja Schobesberger (U. Vienna),  
 Choong Ling Liew-Cain (U. Cam.), Yanlong Shi (USTC), Chaoyu Xie (USTC),  
 Yijie Sun (USTC), Jiarong Zhu (USTC)  
 Students (2015): Brent Tan (CMU), Yunshu Shi (USTC), Yang Hu (USTC)  
 Students (2013): Caitlin Mitchell (UWA), Gianluca Carnielli (ICL), Long Wang (USTC)  
 School of Physical Sciences, University of Science and Technology of China, Hefei, China
  - Lecture and rooftop tour, Astro-Night “Cosmic Mysteries” for USTC Kindergarten, June 2016  
 Department of Astronomy, University of Science and Technology of China, Hefei, China
  - Referee, USTC Team Mid-Term Review for China Undergraduate Physics Tournament (CUPT), April 2016  
 School of Physical Sciences, University of Science and Technology of China, Hefei, China
  - Advisor, Astrophysics Innovation Class of Gifted Students, Hangzhou No.2 High School of Zhejiang  
 Province, November 2015 – February 2016  
 Lecture: “Journey of Astrophysical Exploration”
  - Member, Review Committee of the 5th Academic Annual Meeting, November 2015  
 School of Physical Sciences, University of Science and Technology of China, Hefei, China
  - Astro lecture, rooftop and lab tours for 28 visitors from University of Twente, July 2015  
 School of Physical Sciences, University of Science and Technology of China, Hefei, China
  - Lecturer, USTC Student Astronomical Association, May 2015  
 Lecture: “Lifting the Mysterious Veil on Deeply Buried Supermassive Black Holes in the Universe”  
 University of Science and Technology of China, Hefei, China
  - Talk Host and Interpreter, May 2015  
 “Cosmic Evolution: 9 Billion Years in 60 Minutes” by Prof. Sandra Faber (UCSC)  
 Dept. of Astronomy, University of Science and Technology of China, Hefei, China
  - Member, USTC Postgraduates Recruitment Preaching Team, September 2012 & 2013  
 Chengdu/Sichuan, Nanjing/Jiangsu, China (Organized by USTC Graduate School)
  - Colloquium Organizer, Fall 2012 & Spring 2013  
 Dept. of Astronomy, University of Science and Technology of China, Hefei, China
  - Interviewer, USTC-University of Vienna Undergraduate Summer Research Program, May 2013  
 University of Science and Technology of China, Hefei, China
  - AstroFest Volunteer/Observer, 2008 – 2010  
 Dept. of Astronomy & Astrophysics, The Pennsylvania State University, State College, USA
  - Member of Peking University Youth Astronomical Association, 1996 – 2000  
 Peking University, Beijing, China
  - Writer of Popular Astronomy Essays, October 1998  
 National Astronomical Observatories of China, Beijing, China
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## COLLOQUIUMS, TALKS, WORKSHOPS, POSTERS, ETC. (SELECTED)

57. “AGN Science with LSST and CSST Optical Survey” (invited talk)  
 2017 KIAA-PKU Astrophysics Forum: *Sciences with LSST and CSST*, Beijing, China, November 2017
56. “Tales of Intriguing AGN X-ray Variability as Threaded by Power Spectral Density” (talk)  
*Star Formation Activity and Its Environmental Effects*, Daocheng, Sichuan, China, October 2017

55. “Deepest View of AGN X-ray Variability with the 7Ms Chandra Deep Field-South Survey” (talk)  
*Active Galaxies and Galaxies*, Shandong University, Weihai, Shandong, China, August 2017
54. “AGN-Host Galaxy Interactions Revealed by Deep X-ray Surveys” (talk)  
The 4th Workshop on Key Problems in Galaxy Evolution, Kunming, Yunnan, China, August 2017
53. “AGN-Host Galaxy Interactions Revealed by Deep X-ray Surveys” (invited talk)  
*Black Hole Accretion, Outflow, and AGN Feedback*, Harbin, Heilongjiang, China, July 2017
52. “The Chandra Deep Fields: Lifting the Veil on Distant Active Galactic Nuclei and X-Ray Emitting Galaxies” (talk)  
*Cross-Strait Symposium of Astrophysics*, ACADEMIA SINICA Institute of Astronomy and Astrophysics (ASIAA), Taipei, Taiwan, July 2017
51. “The Chandra Deep Fields: Lifting the Veil on Distant Active Galactic Nuclei and X-Ray Emitting Galaxies” (colloquium)  
Tsinghua Center for Astrophysics, Tsinghua University, Beijing, China, April 2017
50. “Using Leaked Power to Measure Intrinsic AGN PSD in the eXTP Era” (poster)  
*High Throughput X-ray Astronomy in the eXTP Era*, Italian National Research Center, Rome, Italy, February 2017
49. “Chandra Deep Fields: Lifting the Veil on Deeply Buried Supermassive Black Holes in the Universe” (talk)  
2017 CfA@USTC Symposium on *Black Hole Accretion at Different Scales: Theories and Observations*, Hefei, Anhui, China, January 2017
48. “Recent Results from the 7Ms Chandra Deep Field-South” (talk)  
*Galaxies, Gravitational Waves, and Cosmology*, Southwest Jiaotong University (Emei Campus), Emeishan, Sichuan, China, December 2016
47. “Using Leaked Power to Measure Intrinsic AGN Power Spectra of Red-Noise Time Series” (talk)  
*East-Asia AGN Workshop 2016*, Seoul National University, Seoul, South Korea, September 2016
46. “Cosmic X-ray Surveys of Distant AGNs & the Athena X-ray Observatory” (talk)  
*Development Strategy for Space Astronomy Workshop*, CAS Institute of High Energy Physics, Beijing, China, September 2016
45. “The 2 Ms Chandra Deep Field-North Survey and the 250 ks Extended Chandra Deep Field-South Survey: Improved Point-Source Catalogs” (poster)  
*XMM-Newton: The Next Decade*, European Space Astronomy Centre (ESAC), Madrid, Spain, May 2016
44. “Evolution in the Black Hole-Galaxy Scaling Relations and the Duty Cycle of Nuclear Activity in Star-forming Galaxies” (talk)  
USTC Department of Astronomy-Xinjiang Astronomical Observatory Joint Seminar, Hefei, Anhui, China, November 2015
43. “The 2 Ms Chandra Deep Field-North Survey and the 250 ks Extended Chandra Deep Field-South Survey: Improved Point-Source Catalogs” (talk)  
Chinese Astronomical Society Annual Meeting, Beijing, China, October 2015
42. “Scientific Layout of Chinese Ground-Based Optical/Infrared Telescopes” (observational site field trip)  
Ali Observatory, Ali, Tibet, China, September 2015
41. “Evolution in the Black Hole-Galaxy Scaling Relations and the Duty Cycle of Nuclear Activity in Star-forming Galaxies” (talk)  
The 2nd Workshop on Key Problems in Galaxy Evolution, Shandong University, Weihai, Shandong, China, August 2015
40. “Photometric Redshifts in the Hawaii-Hubble Deep Field-North” (poster)  
The IAU XXIX General Assembly, Honolulu, Hawaii, USA, August 2015

39. “The 2 Ms Chandra Deep Field-North Survey and the 250 ks Extended Chandra Deep Field-South Survey: Improved Point-Source Catalogs” (talk)  
*CFA@USTC Symposium on SMBHs and Galaxies*, Hefei, Anhui, China, July 2015
38. “The 2 Ms Chandra Deep Field-North Survey and the 250 ks Extended Chandra Deep Field-South Survey: Improved Point-Source Catalogs” (talk)  
The 3rd East-Asia AGN Workshop, Changchun, Jilin, China, July 2015
37. “Recent Efforts on Obscured AGN Demography from the Chandra Deep Fields” (colloquium)  
Center for Astronomy and Astrophysics, Shanghai Jiao Tong University, Shanghai, China, June 2015
36. “Black Hole Accretion and AGN Feedback” (conference)  
Shanghai Astronomical Observatory, Shanghai, China, June 2015
35. “Recent Efforts on Obscured AGN Demography from the Chandra Deep Fields” (colloquium)  
Dept. of Astronomy, Xiamen University, Xiamen, Fujian, China, May 2015
34. “Photometric Redshifts in the Hawaii-*Hubble* Deep Field-North” (talk)  
The 973 Program *Observations of Dark Energy* Kickoff Meeting, Center for Astronomy and Astrophysics, Shanghai Jiao Tong University, Shanghai, China, May 2015
33. “A Recent Chandra Deep Fields Perspective on Obscured AGN Demographics” (invited talk)  
*Quasars and Active Galactic Nuclei over Cosmic Time* Workshop, Kavli Institute for Astronomy and Astrophysics, Peking University, Beijing, China, March 2015
32. “Photometric Redshifts in the Hawaii-*Hubble* Deep Field-North” (talk)  
*TMT in China, Scientific and Technological Frontiers*, KIAA-PKU Astrophysics Forum, Kavli Institute for Astronomy and Astrophysics, Peking University, Beijing, China, November 2014
31. “Photometric Redshifts in the Hawaii-*Hubble* Deep Field-North” (talk)  
Chinese Astronomical Society Annual Meeting, Xi’an, Shanxi, China, October 2014
30. “Hunting for the Source Population Responsible for the Unresolved Cosmic 6–8 keV Background” (talk)  
Xinjiang Astronomical Observatory-USTC Department of Astronomy Joint Seminar, Urumqi, Xinjiang, China, July 2014
29. “Towards a Complete Census of Distant Obscured AGNs in the *Chandra* Deep Field-South” (invited talk)  
*From Dark Matter to Galaxies*, The 10th Sino-German Workshop on Galaxy Formation and Cosmology, Xi’an, Shanxi, China, May 2014
28. “Obscured AGN Demography through Cosmic Time: Results from the *Chandra* Deep Field-South” (colloquium)  
Shanghai Astronomical Observatory, Shanghai, China, April 2014
27. “Mini-workshop on Cosmology and Galaxy Formation ” (workshop)  
Center for Astronomy and Astrophysics, Shanghai Jiao Tong University, Shanghai, China, March 2014
26. “ATHENA (the Advanced Telescope for High ENergy Astrophysics) Kick-off Meeting” (workshop)  
Max-Planck-Institute for Extraterrestrial Physics (MPE), Garching, Germany, January 2014
25. “Hunting down the Source Population Responsible for the Unresolved Cosmic 6–8 keV Background” (talk)  
The Mini-workshop on AGNs by Shanghai Astronomical Observatory & Polar Research Institute of China, Zhoushan, Zhejiang, China, November 2013
24. “*Chandra* Deep Field-South: Toward Understanding the Demography of distant obscured AGNs” (colloquium)  
School of Astronomy & Space Science, Nanjing University, Nanjing, Jiangsu, China, October 2013
23. Working Meeting of Key Laboratory for Research in Galaxies and Cosmology (CAS), Hulunbeier, Inner Mongolia, China, August 2013
22. “Supermassive Black Hole Activity and Evolution” (workshop)  
Workshop of NSFC Key Program, Tianzhushan, Anhui, China, July 2013



21. “Recent AGN Demography Efforts from the Chandra Deep Field-South” (invited talk)  
9th Zhangheng Symposium, Chinese Astronomical Society, Zhangjiajie, Hunan, China, June – July 2013
20. “Recent AGN Results from the Chandra Deep Field-South” (talk)  
High Energy Astrophysics Workshop, National Astronomical Observatories of China, Beijing, China, May 2013
19. “Mini-workshop on Outflows” (workshop)  
Workshop of Key Laboratory for Research in Galaxies and Cosmology (CAS), Jiuhuashan, Anhui, China, April 2013
18. “The Next Generation Canada-France-Hawaii Telescope (ngCFHT) Workshop” (workshop)  
CFHT Corporation, Hilo, Hawaii, USA, March 2013
17. “Hunting for Highly Obscured Active Galactic Nuclei in the *Chandra* Deep Field-South” (talk)  
Working Meeting of Key Laboratory for Research in Galaxies and Cosmology (CAS), Maanshan, Anhui, China, November 2012
16. “Efforts in Searching for Highly Obscured Active Galactic Nuclei in the *Chandra* Deep Field-South” (talk)  
7th Black Hole Astrophysics Annual Meeting, Xishuangbanna, Yunnan, China, November 2012
15. “Tracking Down the Source Population Responsible for the Unresolved Cosmic 6–8 keV Background” (talk)  
220th AAS Meeting, Anchorage, Alaska, USA, June 2012
14. “*Chandra* Deep Fields: Investigating Active Galactic Nuclei across Cosmic Time” (colloquium)  
Kavli Institute for Astronomy and Astrophysics/Dept. of Astronomy, Peking University, Beijing, China, May 2012
13. “*Chandra* Deep Fields: Recent Results on Supermassive Black Holes and Their Host Galaxies” (invited talk)  
*Workshop on Ecosystems of Galaxies*, University of Science and Technology of China, Hefei, Anhui, China, May 2012
12. “Active Galaxy Ecology through Cosmic Time: Results from Deep Extragalactic Surveys” (colloquium)  
Dept. of Astronomy, University of Science and Technology of China, Hefei, Anhui, China, July 2011
11. “Black Hole-Jet Systems: From Blazars to Microquasars” (colloquium)  
Dept. of Physics, Xiamen University, Xiamen, Fujian, China, October 2009
10. “Color-Magnitude Relations of Active and Non-Active Galaxies in the *Chandra* Deep Fields: High-Redshift Constraints and Stellar-Mass Selection Effects” (talk)  
*Galactic Center Workshop 2009*, Shanghai, China, October 2009
9. “Black Hole-Jet Systems: From Blazars to Microquasars” (colloquium)  
Dept. of Physics & Space Sciences, Florida Institute of Technology, Melbourne, Florida, USA, February 2008
8. “Toward Understanding the Spectral Energy Distribution of Microquasars” (dissertation talk)  
211th AAS Meeting, Austin, Texas, USA, January 2008
7. “Toward Understanding the Spectral Energy Distribution of Microquasars” (colloquium)  
Dept. of Physics, George Washington University, Washington D.C., USA, September 2007
6. “Toward Understanding the Spectral Energy Distribution of Microquasars” (seminar)  
Astrophysics/High Energy Physics Seminar, Dept. of Physics, Purdue University, West Lafayette, Indiana, USA, September 2007
5. “Toward Understanding the Spectral Energy Distribution of Microquasars. I. Multiwavelength Properties of XTE J1550–564” (poster)  
209th AAS Meeting, Seattle, Washington, USA, January 2007
4. “X-ray Spectral Variability of TeV Blazars during Rapid Flares” (poster)  
207th AAS Meeting, Washington D.C., USA, January 2006

3. “The INTEGRAL Data Analysis Workshop” (workshop)  
NASA/GSFC, Greenbelt, Maryland, USA, November 2005
  2. “A Re-Investigation to the Death Line of Radio Pulsars” (talk)  
IAU Symposium No. 214, *High Energy Processes and Phenomena in Astrophysics*, Suzhou, Jiangsu, China, August 2002
  1. “An Accretion Disk Model for Periodic Variations of PSR B1828–11” (talk)  
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## PUBLICATIONS

★ signifies a USTC undergraduate student working with Y. Q. Xue

† signifies a USTC graduate student working with Y. Q. Xue

‡ signifies a USTC postdoc working with Y. Q. Xue

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62. “Research Progress on the Correlation between X-Ray Intrinsic Photon Index and Eddington Ratio in Active Galactic Nuclei” (in Chinese)  
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34. “The High-Redshift ( $z > 3$ ) AGN Population in the 4 Ms *Chandra* Deep Field South” Vito, F., Vignali, C., Gilli, R., Comastri, A., Iwasawa, K., Brandt, W. N., Alexander, D. M., Brusa, M., Lehmer, B., Bauer, F. E., Schneider, D. P., Xue, Y. Q., & Luo, B. 2013, *MNRAS*, 428, 354
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