# Yongquan Xue's [bilibili] [KouShare] [ORCID] [Baidu] Curriculum Vitae

Contact • Education • Research • Positions • Collaborations • Affiliations
Grants • Press • Observing • Teaching • Services & Outreach • Talks • Publications

## ♠ Contact Information (Back to Top)

Department of Astronomy, University of Science and Technology of China (USTC)
Room C-1003-1, Teaching and Research Building of Material Science, 96 Jinzhai Road, Hefei, Anhui 230026, China
Email: xuey@ustc.edu.cn; URL: https://faculty.ustc.edu.cn/xueyongquan/en/index.htm

## ♠ Education (Back to Top)

- Ph.D., Astrophysics, Purdue University, 2008/05
  Dissertation: *Black Hole-Jet Systems: From Blazars to Microquasars* [PDF] (Adviser: Prof. Wei Cui)
- M.S., Astrophysics, Peking University, 2003/07
  Thesis: *Studies on Neutron Stars: Pulsar Death Line, Precession, and Challenges* (Adviser: Prof. Guojun Qiao)
- B.S., Astrophysics, Peking University, 2000/07
  Thesis: *Several Constraint Lines on the Pulsar $P$-$\dot{P}$ Diagram* (Adviser: Prof. Guojun Qiao)

## ♠ Research Interests (Video 1, Video 2, Video 3, Video 4, Video 5) (Back to Top)

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

## ♠ Professional Positions (Back to Top)

- Chair Professor, Dept. of Astronomy, USTC, 2022/09 – 2027/08
- Professor, Dept. of Astronomy, USTC, 2012/05 – Present
- Postdoc, Dept. of Astronomy & Astrophysics, The Pennsylvania State University, 2008/05 – 2012/05
  (Adviser: Prof. William Nielson Brandt; aka. Niel Brandt)
- Research Assistant, Dept. of Physics, Purdue University, 2004/05 – 2008/05 (Adviser: Prof. Wei Cui)
- Research Assistant, Dept. of Astronomy, Peking University, 2000/09 – 2003/07 (Adviser: Prof. Guojun Qiao)

## ♠ Collaborations (Selected) (Back to Top)

- Member, the HUBS (Hot Universe Baryon Surveyor) Scientific Working Groups
- Member, the Chinese PFS (Prime Focus Spectrograph) Participation Consortium (CPPC)
- Member, the EP (Einstein Probe) Satellite Science Definition Team
- Member, the eXTP (enhanced X-ray Timing and Polarimetry) Mission Science Working Group
- Member, the WFST (Wide-Field Survey Telescope) Science Team
- Member, the CSST (Chinese Space Station Telescope) Science Team
- Member, the XMM-SERVS Survey
- Core Member, the Chandra Deep Field Surveys (CDF-N, CDF-S, E-CDF-S)

## ♠ Professional Affiliations (Back to Top)

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

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## ♠ Awards, Grants, and Allocated Observing Time (Selected) (Back to Top)

- *Studies of X-ray High-energy Astrophysics*, 2021 – 2025
  National Natural Science Foundation of China (Grant #: 12025303), PI
- *Growth History of Galaxies and Their Central Black Holes in Cosmic Web*, 2019 – 2023
  National Natural Science Foundation of China (Grant #: 11890693), PI
- Advanced Worker Award for Popular Astronomy, Chinese Astronomical Society, 2022/11
- *Probing Star Formation Rates in Type-1 AGNs with Powerful Outflows and Radio Jets*, 2022
  JCMT SCUBA-2/Band 3 (Proposal #: M22BP038), 7.2 hours, Co-I (PI: K. N. N. Nguyen/N. H. A. Le)
- *Active Galactic Nuclei Feedback*, 2019 – 2022
  CAS K.C. Wong's Pioneer Talent Program - Lujiaxi International Team Project, Co-I (PI: Feng Yuan)
- *Probing Molecular Gas Kinematics in Type 2 AGNs*, 2021
  P200/Triplespec (Proposal #: CTAP2022-A0037), 0.5 nights, Co-I, (PI: N. H. A. Le)
- *Introduction to Astronomy* selected as "Undergraduate College General Course TOP 100" in the 2020 fall/winter semester at www.zhihuishu.com, 2020
- 2019 Top Ten Advances in Astronomical Science and Technology,
  Chinese Astronomical Society & Center for Astronomical Mega-Science (Chinese Academy of Sciences), 2020
  *Discovery of the 1st Magnetar-powered X-ray Transient as the Aftermath of a Binary Neutron-star Merger Led by Chinese Scholars*
- 2019 Top Ten Scientific Research of School of Physical Sciences, USTC, 2020
  *USTC Discovering the 1st Magnetar-powered X-ray Transient as the Aftermath of a Binary Neutron-star Merger*
- 2019 Outstanding Research President Award, USTC, 2020
- *MOOC Demonstration Project (Provincial Level): Introduction to Astronomy*, 2018 – 2020
  University of Science and Technology of China, PI
- *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)
- *SCUBA-2 Large eXtragalactic Survey (S2LXS)*, 2019
  JCMT SCUBA-2/Band 2 & Band 3 (Proposal #: M20AL026), 189 hours, Co-I (PI: Ian Smail)
- *AWESOME — A Well-Deep EAO Survey Observing Most Of The EBL*, 2019
  JCMT SCUBA-2/Band 1 (Proposal #: M20AL020), 100 hours, Co-I (PI: Chian-Chou Chen)
- China Top Cited Author Award 2019, American Astronomical Society/IOP Publishing, 2019
  *As an author of one of the top 1% most-cited papers in astronomy & astrophysics published over 2016 – 2018*
- *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
- 2017 Teaching Excellence Award, USTC Alumni Foundation, 2017
  *In Recognition of Achievement in Academic Excellence*
- *Completing and Ensuring Major Impact from the XMM-SERVS Survey*, 2017
  *XMM-Newton* X-ray Observatory (Proposal #: 082038), 3444 ks, Co-I (PI: Niel Brandt)
- Outstanding advisor, *2016 Seminar on Science and Society for Freshmen*, USTC, 2017
- *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)
- 2016 Top Ten Scientific Research of School of Physical Sciences, USTC, 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 $L_{\nu 850}/M_{\rm H_2}$ 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)
- Startup Funding, USTC, 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
- *A COSPAR Capacity-Building Workshop on "High-Energy Astrophysics: An Advanced School for Asian Astronomers"*, 2013
  National Natural Science Foundation of China (Grant #: 11310301051), Co-I (PI: Li Ji)
- *Improved Source Catalogs for the Chandra Deep Field-North and the Extended Chandra Deep Filed-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, Dept. of Physics, Purdue University, 2008
  *In Recognition of Outstanding Research in Physics*
- *Research on Pulsar Radiation Mechanisms*, 2004 – 2006
  National Natural Science Foundation of China (Grant #: 10373002), Co-I (PI: Guojun Qiao)
- *Physics and Observational Identification of Bare Strange Stars*, 2003 – 2005
  National Natural Science Foundation of China (Grant #: 10273001), Co-I (PI: Renxin Xu)
- *Research on Pulsar Magnetic Field and Relevant Questions*, 2002 – 2004
  National Natural Science Foundation of China (Grant #: 10173002), Co-I (PI: Renxin Xu)

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## ♠ Press Releases (Back to Top)

- The XMM-SERVS Survey (2021/06; incomplete list):
  – *New X-ray Map Reveals the Growing Supermassive Black Holes in Next-generation Survey Fields*, Penn

State News, prnewswire.com
  – *New X-ray Map Reveals Growth of Supermassive Black Holes in Next-generation Fields of Investigation*, oltnews.com
  – *Digging for Darkness*, High Energy Astrophysics Picture of the Week
- Corona-disc-jet Connection in Optically Selected Radio-loud Quasars (2020/10; incomplete list):
  – *The Recipe for Powerful Quasar Jets*, NASA, *Chandra* X-ray Observatory
  – *The Symbiosis of Powerful Quasar Jets and Their Bright Coronas*, *Chandra* X-ray Observatory
- A Magnetar-powered X-ray Transient as the Aftermath of a Binary Neutron-Star Merger (2019/04; incomplete list):
  – *A New Signal for a Neutron Star Collision Discovered*, NASA, *Chandra* X-ray Observatory
  – *Deep Space X-ray Burst Gives Astronomers New Signal to Detect Neutron Star Mergers*, AAAS/EurekAlert!
  – *China, U.S. Researchers Find Special Signal from Magnetic Star*, Xinhua Net
  – *Astronomers Detected a New Signal for a Neutron Star Collision*, Tech Explorist
  – *6.6 Billion Light Years Away: Neutron Stars Merger Radiance Observed*, AAAS/EurekAlert!
  – *A New Neutron Star Merger is Caught on X-ray Camera*, Astronomy
  – *Astronomers Just Found a New Way to Detect Elusive Colliding Neutron Stars*, Science Alert
  – Cartoon: *The Magneto*, Micius Salon & China Science Communication
- Linking Black Hole Growth with Host Galaxies (2018/02; incomplete list):
  – *Supermassive Black Holes Are Outgrowing Their Galaxies*, NASA, *Chandra* X-ray Observatory
  – *Are Supermassive Black Holes Going to Eat the Universe?*, livescience.com
  – *Big Black Holes Outpace Their Galaxies in Growth*, Penn State SCIENCE
- A New, Faint Population of X-ray Transients (2017/03; incomplete list):
  – *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, eurekalert.org, sciencedaily.com
- The 7 Ms *Chandra* Deep Field-South Survey (2017/01; 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 (Back to Top)

- 200-Inch Hale Telescope, four half-nights, Palomar Observatory, California, USA, 2015/01
- 13.7m Millimeter-Wave Telescope, Delingha Observatory, Qinghai, China, 1999/12 – 2000/01

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## ♠ Teaching and Students/Postdocs Advised (at USTC) (Back to Top)

### I. Teaching

- Massive Open Online Course (MOOC): *Introduction to Astronomy* @ zhihuishu.com, 2020/03 – Present
  (also available @ Chinese Universities MOOC (iCourse) & @ KouShare & @ bilibili)
  Four face-to-face lectures included:
  - 1. *Colorful Planet World*
  - 2. *Radiance from a Magnetar as the Aftermath of a Binary Neutron-star Merger 6.6 Billion Light Years Away*
  - 3. *Quest for Deeply Buried Supermassive Black Holes in the Universe*
  - 4. *Unpredictable AGNs: Piercing through Their Complex Variability*
  (course trailer, flyer 1, flyer 2, APP; public course page; credit course page & learning manual)
- *The Physics and Evolution of Active Galactic Nuclei* (given in English; Lecturer), Fall 2015 – Present
- *Introduction to Astronomy* (Lecturer), Fall 2013 – Present
- *Introduction to Physical Science and Engineering* (Guest Lecturer)
  *"Unveiling Highly-Obscured Active Galactic Nuclei with Chandra Deep Fields"*, 2017/02
  *"Radiance From A Magnetar As The Aftermath Of A Binary Neutron-Star Merger 6.6 Billion Light Years Away"*, 2019/11 [Lecture video]
  *"Essence of Astronomy & Dancing with Supermassive Black Holes"*, 2021/03 [Lecture video]

- *Introduction to Science, Technology, and Engineering* (Guest Lecturer)
  *"Radiance From A Magnetar As The Aftermath Of A Binary Neutron-Star Merger 6.6 Billion Light Years Away"*, 2020/11
  *"Gazing ... Dancing with Black Holes"*, 2020/12
  *"Genzel & Ghez: Discovery of a Supermassive Compact Object at the Center of Our Galaxy"*, 2020/12
- *Modern Physics Progress* (Guest Lecturer), 2019/10
  *"Radiance From A Post-BNS-Merger Magnetar 6.6 Billion Light Years Away"*
  *"Quest for Deeply Buried Supermassive Black Holes in the Universe"*
- *Seminar on Science and Society for Freshmen* (Lecturer), Fall 2015 – Spring 2017
- *Reading of Astronomical Literature* (Lecturer), Fall 2014
- *Active Galactic Nuclei* (Co-Lecturer), Spring 2014
- *Overview of Astrophysics* (Co-Lecturer), Spring 2013
- *Active Galactic Nuclei* (Teaching Assistant), Spring 2013
- *Introduction to Astronomy* (Teaching Assistant), Fall 2012
- *Lecture Series: Frontiers of Astrophysics* (Guest Lecturer), 2012/10
  *"Dancing with Supermassive Black Holes across Cosmic Time"*

## II. Postdocs and above & Graduate Students & Undergraduate Students

### —— Postdocs and above ——

- Shifu Zhu (Postdoc, USTC), 2022/11 – Present
- Xiaozhi Lin (Postdoc, USTC), 2021/11 – Present
- Hao Liu (Postdoc, USTC), 2021/09 – Present
- Nguyen Huynh Anh Le (Postdoc & Special-term Associate Researcher, USTC), 2019/01 – Present
- Thomas M. Hughes (Joint Postdoc, USTC/U. Valparaíso), 2017/09 – 2021/09
- Mouyuan Sun (Postdoc & Special-term Associate Researcher, USTC), 2016/03 – 2019/06

### —— Graduate Students ——

- Ruisong Xia (Graduate Student, USTC), 2021/09 – Present
- Chen Qin (Graduate Student, USTC), 2021/09 – Present
- Mengqiu Huang (Graduate Student, USTC), 2020/09 – Present
- Yu Liu (Graduate Student, USTC), 2019/09 – Present
- Ashraf Ayubinia (Graduate Student, USTC), 2017/09 – Present
- Junyao Li (Graduate Student, USTC), 2016/09 – 2022/06
  PhD dissertation: "Observational Investigations of Active Galaxies and Their Co-evolution with Supermassive Black Holes"
- Xiaozhi Lin (Graduate Student, USTC), 2017/09 – 2021/06
  PhD dissertation: "Clustering of Galaxies and Active Galactic Nuclei"
- Yijun Wang (Graduate Student, USTC), 2015/01 – 2021/06
  PhD dissertation: "X-ray Variability Studies of Active Galactic Nuclei"
- Tianyi Zhang (Graduate Student, USTC), 2016/09 – 2020/07
  Master thesis: "The NuSTAR Extragalactic Surveys: Source Catalogs from the Extended Chandra Deep Field-South and the Chandra Deep Field-North"
- Jun Xu (Graduate Student, USTC), 2013/09 – 2019/06
  PhD dissertation: "AGN Dusty Torus and Its Infrared Emission"
- Fangyou Gao (Graduate Student, USTC), 2015/09 – 2018/06
  Master thesis: "Deriving Galaxy Properties in H-HDF-N using SED Fitting"
- Xuechen Zheng (Graduate Student, USTC), 2014/09 – 2017/11
  Master thesis: "X-ray Variability of Active Galactic Ncuclei in the 7 Ms CDF-S"
- Jiayang Ni (Graduate Student, USTC), 2013/09 – 2016/06
  Master thesis: "The Correlation Between Intrinsic X-ray Photon Index and Eddington Ratio for AGNs"
- Shifu Zhu (Graduate Student, USTC), 2013/09 – 2016/06
  Master thesis: "Constraining Intrinsic Power Spectra of Active Galactic Nuclei and Revealing Ultrafast X-ray Variability of TeV Blazars"

### —— Undergraduate Students ——

- Xiao Xiong (Undergraduate Student, USTC), 2020/08 – 2022/06
  Bachelor thesis: "Deriving the Properties of Galaxies in the Extended Chandra Deep Field-South Survey from Spectral Energy Distribution Fitting"
- Chenze Dong (Undergraduate Student, USTC), 2020/06 – 2022/06
  Bachelor thesis: "A Study on Barred Galaxies with SAMI IFS and HSC Image Data"
- Ruisong Xia (Undergraduate Student, HUST), 2020/07 – 2021/06
  Bachelor thesis: "Search and Study of Highly Variable AGNs in the Chandra Deep Field-South"
- Boyuan Zhang (Undergraduate Student, USTC), 2020/01 – 2021/06
  Bachelor thesis: "Optically 'Elusive' Active Galactic Nuclei"
- Bin Duan (Undergraduate Student, USTC), 2020/01 – 2021/06
  Bachelor thesis: "Verifying the Feasibility of X-ray Redshift Estimation for Obscured AGNs with CDFs"
- Renhao Liang (Undergraduate Student, USTC), 2019/06 – 2021/06
  Bachelor thesis: "A Timing Study of Sgr A* with Deep Chandra Observations"
- Chen Qin (Undergraduate Student, USTC), 2019/03 – 2021/06
  Bachelor thesis: "Active Galactic Nucleus Pairs in the Chandra Deep Field-South"
- Mengqiu Huang (Undergraduate Student, YNU), 2019/10 – 2020/06
  Bachelor thesis: "Search and Research of Tidal Disruption Events in the Chandra Deep Field-South"
- Xuecong Wang (Undergraduate, USTC), 2019/03 – 2019/06
  Bachelor thesis: "A Probe into Changing-look AGNs"
- Yi Xu (Undergraduate, USTC), 2017/09 – 2019/06
  Bachelor thesis: "Searching for Obscuration-variable AGNs in the Chandra Deep Field-South"
- Fan Zou (Undergraduate, USTC; Guo Moruo Scholarship Winner), 2017/01 – 2019/06
  Bachelor thesis: "The Unified Model for AGNs: On the Host Galaxy and the Iron K-shell Emission Lines"
- Zheyuan Wei (Undergraduate Student, USTC), 2017/01 – 2018/06
  Bachelor thesis: "Systematic Search for Merging AGNs in the Chandra Deep Fields"
- Junyao Li (Undergraduate Student, NWU), 2015/11 – 2016/06
  Bachelor thesis: "Variabilities of Highly Obscured AGNs in the 4 Ms CDF-S"
- Tianyi Zhang (Undergraduate Student, USTC), 2014/07 – 2016/06
  Bachelor thesis: "An Improved Source Detection Method in the Extended *Chandra* Deep Field-South"
- Xuechen Zheng (Undergraduate Student, USTC), 2012/09 – 2014/07
  Bachelor thesis: "Explore the Relation between Long-Term X-ray Variability and Black Hole Mass of AGN"
- Guang Yang (Honors Undergraduate Student, Outstanding Thesis Award, USTC), 2012/07 – 2014/07
  Bachelor thesis: "Photometric Redshifts in the Hawaii-Hubble Deep Field-North (H-HDF-N)"
- Saiyu Hou (Undergraduate Student, USTC), 2012/06 – 2014/07
  Bachelor thesis: "Influence of Active Galactic Nucleus on Star Formation of Host Galaxy"
- Jiayang Ni (Undergraduate Student, USTC), 2012/09 – 2013/07
  Bachelor thesis: "Hierarchical X-ray Flares from TeV Blazars"
- Shifu Zhu (Undergraduate Student, USTC), 2012/07 – 2013/07
  Bachelor thesis: "X-ray Spectral Variability of TeV Blazars during Rapid Flares"

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## ♠ Teaching Experience and Students Advised (Prior to Joining USTC)

- Sharon Xuesong Wang (Graduate Student, Penn State), 2011/05 – 2012/05
  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 Ehlert (Graduate Student, Stanford University), 2011/01
  Dept. of Astronomy & Astrophysics, The Pennsylvania State University
- Alex Paul (Exchange Undergraduate Student, University of Bath), 2008/01 – 2008/05
  Dept. of Physics, Purdue University
- Xuefeng Yuan (Graduate Student, Purdue University), 2007/08 – 2007/12
  Dept. of Physics, Purdue University
- Kari Frank (REU Student, Luther College), 2005/05 – 2005/08
  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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## ♠ Services and Outreach (Selected) (Back to Top)

### I. Professional Services

- Section Editorial Board for Galaxies and Clusters of *Universe*, 2020/05 – Present
- Editorial Board of *The Innovation — A Journal to See the Unseen & Change the Unchanged*, 2020/03 – 2023/03
- Referee for ApJ, ApJS, RAA, Progress in Astronomy, Chinese Science Bulletin, The Innovation, Journal of Xiamen University
- Correspondence & Conference Reviewer for the National Natural Science Foundation of China (NSFC)
- Correspondence Reviewer for the talents programs, Ministry of Education, China
- Member, the 9th Huang Shoushu Award Selection Committee, Chinese Astronomical Society, 2022/11
- Session Chair, "Hot Gas in the Universe: the 2nd HUBS Workshop", Xiamen (online), 2022/04
- SOC and LOC Member, "East-Asia AGN Workshop 2021", Chongqing, China, 2021/10
- Session Chair, "Symposium on Wide-Field Survey Telescope (WFST)", Lenghu, Qinghai, China, 2021/07
- Session Chair, "Key Questions of Wide-field Surveys", Lenghu, Qinghai, China, 2021/06
- LOC Member and Session Chair, "Gravitational Wave Astrophysics Conference 2021", Hefei, China, 2021/06
- Session Chair, "Symposium on Galaxies and Cosmology 2020", Shanghai (online), China, 2020/11
- SOC and LOC Co-chair, "The Third Youth Forum on the Development of Astronomy"
  NSFC & USTC Dept. of Astronomy, Chizhou, Anhui, China, 2020/11
- Session Chair, Chinese Astronomical Society Annual Meeting, Beijing (online), China, 2020/10
- SOC and LOC Chair, "X-Ray High-Energy Astrophysical Phenomena and Physical Processes"
  2019 CfA@USTC and NSFC "Galaxies and Quasars" Innovation Group Symposium Series,
  Shexian, Anhui, China, 2019/11
- SOC Member, "East-Asia AGN Workshop 2019", Taipei, Taiwan, 2019/01
- Session Chair, "X-ray Surveys of the Hot and Energetic Universe", Harbin, China, 2019/01
- Session Chair, "HUBS Workshop 2018", Shanghai, China, 2018/10
- Lecturer, Advanced Lectures of the CAS Key Laboratory for Research in Galaxies and Cosmology, 2018/04
  Lectures, "The Chandra Deep Fields: Lifting the Veil on Distant AGNs and X-ray Emitting Galaxies"
  University of Science and Technology of China & Shanghai Astronomical Observatory
- Lecturer, "2nd Fudan Winter School on Astrophysical Black Holes", 2017/01
  Lectures: "Active Galactic Nuclei (AGNs): A Brief Observational Tour"
  Dept. of Physics, Fudan University, Shanghai, China
- SOC Member and Session Chair,
  "2016 KIAA-PKU Astrophysics Forum: Future Large Optical-Infrared Facilities in China", Beijing, China, 2016/11
- Session Chair, Chinese Astronomical Society Annual Meeting, Beijing, China, 2015/10
- Session Chair, Chinese Astronomical Society Annual Meeting, Xi'an, China, 2014/10
- SOC and LOC Chair, an international summer school entitled
  "Formation and Co-Evolution of Galaxies and Supermassive Black Holes", 2014/06 – 07
  Dept. of Astronomy, USTC, Hefei, China
- Telescope Access Program 2014A Peer Review (TAC member), 2013/10
  National Astronomical Observatories of China, Beijing, China
- Lecturer, A COSPAR Capacity Building Workshop entitled
  "High-Energy Astrophysics: An Advanced School for Asian Astronomers", 2013/09
  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", 2013/05 – 06
  Dept. of Astronomy, USTC, Hefei, China
- *Chandra* Cycle 13 Peer Review (Member of the AGN Panel), 2011/06
  *Chandra* X-ray Observatory, Boston, Massachusetts, USA

### II. Other Services and Outreach

- Science Popularization Expert, China Science and Technology Press, 2020/08 – 2023/08
- Deputy Director, Department of Scientific Research, USTC, 2022/03 – Present
- Member, Association For Science And Technology Of USTC, USTC, 2020/12 – Present
- Council Member, Astronomical Society of Anhui, Anhui, China, 2020/12 – Present
- Member, The 9th USTC Degree Evaluation Subcommittee (School of Astronomy and Space Sciences), 2019/11 – Present
- Member, Laboratory Affairs Committee, 2015/03 – Present
  Key Laboratory for Research in Galaxies and Cosmology, USTC, Chinese Academy of Sciences, Hefei, China
- M.S./Ph.D. Defense Committee Member/Chair
  2022: Hao Sou (USTC/MS), Xinkai Chen (USTC/PhD), Zhiwen Chen (USTC/PhD), Yanan Wang (USTC/PhD), Tianle Zhao (USTC/PhD), Wenyong Kang (USTC/PhD)
  2021: Weida Hu (USTC/PhD)
  2020: Bo Liu (USTC/PhD), Xianger Fang (USTC/PhD), Mai Liao (SHAO/PhD), Minhua Zhou (SHAO/PhD), Zeyuan Tang (USTC/PhD)
  2019: Xiaochuan Jiang (XMU/PhD), Berzaf Berhane Teklu (USTC/PhD), Feifan Zhu (USTC/PhD)
  2018: Jixian Zhang (USTC/MS), Xiaojun Wu (USTC/PhD), Hasrat Hussain Shah (USTC/PhD)
  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)
- Reviewer, Haiyun Doctoral Academic Forum, College of Physical Science and Technology, Xiamen University, 2022/07
- Invited Professor, "USTC Live Broadcast of Enrollment @ Weibo", 2022/06 [Video: part 1, part 2, part 3]
- Lecture, "Black Holes in the Universe: Black Holes Light up the Universe", 2022/06
  The Affiliated High School of South China Normal University, Guangzhou, Guangdong, China
- Lecture, "Pulsation from Galactic Center: Photo of Sgr A* – Black Hole in the Center of Milky Way", 2022/05
  USTC, Hefei, Anhui, China
- Deputy Director (Temporary Post), Department of Scientific Research, USTC, 2021/07 – 2022/03
- Lecture, "Gazing ... Dancing with Supermassive Black Holes", 2021/12
  Haiyuan No. 1 High School, Ningxia, China
- Lecture, "Deciphering the King of Dense Matter in the Universe — Supermassive Black Holes", 2021/11
  Student Seminar, School of Physical Sciences, USTC, Hefei, Anhui, China [Lecture video]
- Professor, "Young Meet Bole" Undergraduate Scientific Research Practice Teacher-Student Exchange Meeting, School of the Gifted Young, USTC, 2021/07
- Advisor, Association of Amateur Astronomer of USTC, USTC, 2020/09 – 2021/07
- Lecturer, Second Examination of "Innovation Pilot Class", School of the Gifted Young, USTC, 2021/06
- Dean's Assistant, School of Physical Sciences, USTC, 2019/11 – 2021/06
- Lecture, "Genzel & Ghez: Discovery of a Supermassive Compact Object at the Center of Our Galaxy", 2020/10
  *Hunting for the King of Dense Matter in the Universe — Black Hole Catcher*, USTC Shi Ruwei Lecture Series No. 11: Commentary on the 2020 Nobel Prize in Physics, USTC, Hefei, Anhui, China [Lecture video]
- Referee, Pre-defense Meeting on CAS Talent Plan Selection, USTC, 2020/09
- Lecture, "Gazing ... Dancing with Black Holes", 2020/09
  For some middle-aged people who are interested in science, Chizhou, Anhui, China
- Member, Department Affairs Committee, Dept. of Astronomy, USTC, 2018/04 – 2020/08
- Interviewer, Program of "Pilot of Enrollment Reform of Basic Subjects", 2020/07
  University of Science and Technology of China, Hefei, China
- Co-organizer and/or Interviewer, 1st–4th Astronomical Summer Camp, 2019 – 2022 [Trailer]
  Dept. of Astronomy, School of Physical Sciences, USTC, Hefei, China
- Invited Speaker & Suzhou Science Ambassador, "Gazing ... Dancing with Black Holes", 2020/07
  Suzhou Science and Culture Forum, Suzhou, Jiangsu, China [Video]
- Advisor, "Scientific Inquiry Documentary: Why Stars Shine", 2020/06

For three first graders from Xiyuan Primary School (Huilin Campus), Hefei, Anhui, China [Video]

- Lecture, "Colorful Planet World", 2019/11
  For some students from The Middle School Attached to USTC, Hefei, Anhui, China
- Associate Department Head, Dept. of Astronomy, USTC, 2018/04 – 2019/10
- Lecturer and Advisor, Future Physicist International Summer Camp (FPISC), 2013–2016, 2019, 2021
  Lecture (2021): "Essence of Astronomy & Dancing with Supermassive Black Holes"
  Lecture (2019): "Radiance From A Magnetar 6.6 Billion Light Years Away"
  Lecture (2013 – 2016): "Lifting the Veil on Deeply Buried Supermassive Black Holes in the Universe"
  Students (2019): Olivia Zhiyao Li (CMU), Nick Speeney (CMU), Renhao Liang (USTC), Zonglin Yao (USTC), Rohan Cunningham (UWA), Heng Zhang (USTC)
  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, USTC, Hefei, China
- Lecture, "Stellar Symphony of Destiny", 2019/06
  *Scientist Forum*, The Middle School Attached to USTC, Hefei, Anhui, China
- Lecture, "Radiance From A Magnetar 6.6 Billion Light Years Away", 2019/05
  Purple Mountain Observatory Advanced Science Popularization Forum, Nanjing, Jiangsu, China
- Popular science essays on the discovery of the first magnetar-powered X-ray transient, 2019/04 – 05
  [Chandra Blog] [Nature Research Community] [stdaily.com] [Sheldon's Cartoon (A) & (B)] [First Light]
- Lecture, "Stellar Symphony of Destiny", 2019/04
  Hefei Sunshine Primary School, Hefei, Anhui, China
- Lecture, "Pursuing Your Dream and Exploring the Universe", 2018/11
  Datian No.1 High School, Datian, Fujian, China
- The Invited Professor, Series of "I Have an Appointment with the Professor", 2018/06
  School of Physical Sciences, USTC, Hefei, Anhui, China
- Interviewer, School of Physical Sciences, USTC
  April 2018: Ph.D. Entrance Interview
  May/June/September 2015 – 2017: Graduate (Internet) Interview
  March 2015, 2017, 2018: Graduate Entrance Second Examination
  July/August 2012 – 2015, 2017: Physics Summer Camp
- Lecture, "Unveiling Highly-Obscured Active Galactic Nuclei with the Chandra Deep Fields", 2017/05
  Hangzhou No.2 High School, Hangzhou, Zhejiang, China
- Explaining Super Moon Phenomenon on Anhui Satellite TV and Hefei TV, 2016/11
- Lecture and rooftop tour, Astro-Night "Cosmic Mysteries" for USTC Kindergarten, 2016/06
  Department of Astronomy, USTC, Hefei, China
- Referee, USTC Team Mid-Term Review for China Undergraduate Physics Tournament (CUPT), 2016/04
  School of Physical Sciences, USTC, Hefei, China
- Advisor, Astrophysics Innovation Class of Gifted Students, Hangzhou No.2 High School of Zhejiang Province, 2015/11 – 2016/02
  Lecture: "Journey of Astrophysical Exploration"
- Member, Review Committee of the 5th Academic Annual Meeting, 2015/11
  School of Physical Sciences, USTC, Hefei, China
- Astro lecture, rooftop and lab tours for 28 visitors from University of Twente, 2015/07
  School of Physical Sciences, USTC, Hefei, China
- Lecturer, USTC Student Astronomical Association, 2015/05
  Lecture: "Lifting the Mysterious Veil on Deeply Buried Supermassive Black Holes in the Universe"
- Public Talk Host and Interpreter, USTC, Hefei, China, 2015/05
  "Cosmic Evolution: 9 Billion Years in 60 Minutes" by Prof. Sandra Faber (UCSC)
- Member, USTC Postgraduates Recruitment Preaching Team, 2012 – 2013/09
  Chengdu/Sichuan, Nanjing/Jiangsu, China (Organized by USTC Graduate School)
- Colloquium Organizer, Dept. of Astronomy, USTC, Hefei, China, Fall 2012 & Spring 2013

- Interviewer, USTC-University of Vienna Undergraduate Summer Research Program, 2013/05
- AstroFest Volunteer/Observer, 2008 – 2010
  Dept. of Astronomy & Astrophysics, The Pennsylvania State University, USA
- Member of Peking University Youth Astronomical Association, 1996 – 2000
- Popular Astronomy Essay Writer, National Astronomical Observatories of China, Beijing, China, 1998/10

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## ♠ Colloquiums, Talks, Workshops, Posters, etc. (Selected) (Back to Top)

97. Tibet University – USTC 2022 Symposium on High-Altitude Astronomical Observations, Lhasa, Tibet, China, 2022/07

96. "X-ray High-energy Astrophysics: An Overview of Personal Research" (solicited talk)
    *The 60th Anniversary of X-Ray Astronomy: X-ray Astronomy in the Time-domain & Multi-messenger Era*, Beijing (online), China, 2022/06

95. "HUBS: Scientific Opportunitiesin the Field of Active Galactic Nuclei — Multiscale Multiphase AGN Outflows" (invited talk)
    *Hot Gas in the Universe: the 2nd HUBS Workshop*, Xiamen (online), China, 2022/04

94. "X-raying the Hot and Energetic Universe" (colloquium)
    School of Physics and Astronomy, Shanghai Jiao Tong University, Shanghai (online), China, 2022/03

93. "Galaxy Formation and Evolution" (invited contributor of group talk presentation)
    *CSST-Euclid-Roman Workshop*, Beijing (online), China, 2021/06

92. "Growth History of Galaxies and Their Central Black Holes in Cosmic Web: Research Progress" (talk)
    Symposium on *NSFC Major Project: Frontier Research of Cosmic Structure Based on Large-scale Spectroscopic Surveys*, Shanghai, China, 2021/04

91. "A Likely Tidal Disruption Event in the Chandra Deep Field-South?" (talk)
    Symposium on *Tidal Disruption Events*, Hangzhou, Zhejiang, China, 2021/04

90. "Estimating Lifetimes of UV-selected Massive Galaxies at $0.5 \leq z \leq 2.5$ in the COSMOS/UltraVISTA Field through Clustering Analyses" (talk)
    *Galaxy Evolution and Wide-field Surveys*, Yixing, Jiangsu, China, 2021/04

89. "Highly Obscured AGNs: the Missing Link in the Merger-Triggered AGN-Galaxy Coevolution Models?" (invited talk)
    *HUST Tianwen Conference I: Black Holes, Galaxies and Cosmological Evolution & Development of Astronomy*, Wuhan, Hubei, China, 2020/12

88. "Powerful AGN Jets: X-ray Variability and Jet-corona Connection" (invited talk)
    NSFC Major Program *Observational and Theoretical Research on Supermassive Black Hole Reverberation Mapping Kickoff Meeting & Symposium on Supermassive Black Holes*, Lijiang, Yunnan, China, 2020/10

87. "Piercing through Highly Obscured and Compton-thick AGNs in the Chandra Deep Fields" (talk)
    Chinese Astronomical Society Annual Meeting, Beijing (online), China, 2020/10

86. "The Chandra Deep Fields: Enabling a Wide Spectrum of Exciting Science" (colloquium)
    School of Astronomy & Space Science, Nanjing University, Nanjing, Jiangsu, China, 2020/01

85. "A New Signal for a Neutron Star Collision: Radiance from a Magnetar" (colloquium)
    Dept. of Astronomy, Xiamen University, Xiamen, Fujian, China, 2019/12

84. "Radiance From A Magnetar as the Aftermath of A Binary Neutron-star Merger 6.6 Billion Light Years Away" (lunch talk)
    Leiden Observatory, Leiden University, Leiden, The Netherlands, 2019/10

83. "A Magnetar-powered X-ray Transient as the Aftermath of a Binary Neutron-star Merger" (talk)
*The Future of X-ray Timing*, Amsterdam, The Netherlands, 2019/10

82. "Radiance From A Magnetar as the Aftermath of A Binary Neutron-star Merger 6.6 Billion Light Years Away" (colloquium)
Kavli Institute for Astronomy & Astrophysics/Dept. of Astronomy, Peking University, Beijing, China, 2019/10

81. "UV/Optical Stochastic Variability as a Probe of Quasar Physics" (talk)
*Mapping Central Regions of Active Galactic Nuclei*, Guilin, Guangxi, China, 2019/09

80. "Radiance From A Post-BNS-Merger Magnetar6.6 Billion Light Years Away" (invited special lecture)
Chinese Astronomical Society Annual Meeting, Delingha, Qinghai, China, 2019/09

79. "A Magnetar-powered X-ray Transient as the Aftermath of a Binary Neutron-star Merger" (invited talk)
Gravitational Wave Astrophysics Conference 2019, Kunming, Yunnan, China, 2019/08

78. The Eighth China Youth Astronomical Forum, Qingdao, Shandong, China, 2019/08

77. "The Chandra Deep Fields: Enabling a Wide Spectrum of Exciting Science" (colloquium)
South-Western Institute For Astronomy Research (SWIFAR) & Department of Astronomy, Yunnan University, Kunming, Yunnan, China, 2019/06

76. "Recent Science Highlights from the Chandra Deep Fields – A Long Hard Look at the Universe" (colloquium)
School of Physics and Technology, Wuhan University, Wuhan, Hubei, China, 2019/05

75. "A Magnetar-powered X-ray Transient as the Aftermath of a Binary Neutron-star Merger" (talk)
*LSST@ASIA: Exploring the Wide, Fast, Deep Universe*, Sydney, Australia, 2019/05

74. "A Magnetar-powered X-ray Transient as the Aftermath of a Binary Neutron-star Merger" (solicited talk)
*Gamma-Ray Bursts and Related Astrophysics in Multi-Messenger Era*, Nanjing University, Nanjing, Jiangsu, China, 2019/05

73. "Recent Science Highlights from the Chandra Deep Fields" (invited talk)
*The 21st CAS Guoshoujing Symposium on Galaxies and Cosmology*, Xiamen, Fujian, China, 2019/05

72. "The Chandra Deep Fields: A Long Hard Look at the Universe" (colloquium)
National Astronomical Observatories of China, Beijing, China, 2019/05

71. "On the Origin of the Dramatic Spectral Variability of WPVS 007" (invited talk)
*Black Hole Accretion, Outflows and AGN Feedback*, Chengdu, Sichuan, China, 2019/04

70. "On the Origin of the Dramatic Spectral Variability of WPVS 007" (invited talk)
*Star Formation and Nuclear Activity in Galaxies*, Yangzhou, Jiangsu, China, 2019/04

69. "A Close Scrutiny of AGN X-ray Spectral Power Density" (solicited talk)
*X-ray Surveys of the Hot and Energetic Universe*, Harbin, Heilongjiang, China, 2019/01

68. "Probing AGN Physics with Variability Studies" (colloquium)
Department of Astronomy, Shanghai Jiao Tong University, Shanghai, China, 2018/12

67. "UV/Optical Stochastic Variability as a Probe of Quasar Physics" (talk)
*The Second Youth Forum on Development of Astronomical Discipline*, Xiamen, Fujian, China, 2018/12

66. "Probing AGN Physics with Variability Studies" (colloquium)
Shanghai Astronomical Observatory, Shanghai, China, 2018/11

65. "Extremely Rapid X-ray Flares of TeV Blazars in the RXTE Era" (poster)
The XXXth General Assembly of the International Astronomical Union, Vienna, Austria, 2018/08

64. "Some Recent Exciting Results from the Chandra Deep Fields" (talk)
The 5th Workshop on Key Problems in Galaxy Evolution, Kedu, Guizhou, China, 2018/08

63. "Observational Constraints on AGN Feedback" (invited talk)
*Workshop on Wind & AGN Feedback*, Sun Island, Shanghai, China, 2018/06

62. "Piercing through Highly Obscured and Compton-thick AGNs in the Chandra Deep Fields" (colloquium)
School of Physics, Huazhong University of Science and Technology, Wuhan, Hubei, China, 2018/05

61. "Recent Results from the Chandra Deep Fields" (colloquium)
School of Physics and Technology, Nanjing Normal University, Nanjing, Jiangsu, China, 2018/05

60. "Tales of Intriguing AGN X-ray Variability as Threaded by Power Spectral Density" (talk)
*Frontiers of Active Galactic Nucleus and Related Science*, Nanning, Guangxi, China, 2018/04

59. "Tales of Intriguing AGN X-ray Variability as Threaded by Power Spectral Density" (colloquium)
School of Astronomy & Space Science, Nanjing University, Nanjing, Jiangsu, China, 2018/03

58. "The Chandra Deep Fields: Lifting the Veil on Distant Active Galactic Nuclei and X-Ray Emitting Galaxies" (poster)
48th Saas-Fee Course: *Black Hole Formation and Growth*, Saas-Fee, Switzerland, 2018/01-02

57. "AGN Science with LSST and CSST Optical Survey" (invited talk)
2017 KIAA-PKU Astrophysics Forum: *Sciences with LSST and CSST*, Beijing, China, 2017/11

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, 2017/10

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, 2017/08

54. "AGN-Host Galaxy Interactions Revealed by Deep X-ray Surveys" (talk)
The 4th Workshop on Key Problems in Galaxy Evolution, Kunming, Yunnan, China, 2017/08

53. "AGN-Host Galaxy Interactions Revealed by Deep X-ray Surveys" (invited talk)
*Black Hole Accretion, Outflow, and AGN Feedback*, Harbin, Heilongjiang, China, 2017/07

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, 2017/07

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, 2017/04

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, 2017/02

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, 2017/01

48. "Recent Results from the 7Ms Chandra Deep Field-South" (talk)
*Galaxies, Gravitational Waves, and Cosmology*, Southwest Jiaotong University (Emei Campus), Emeishan, Sichuan, China, 2016/12

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, 2016/09

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, 2016/09

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, 2016/05

44. "Evolution in the Black Hole-Galaxy Scaling Relations and the Duty Cycle of Nuclear Activity in Star-forming Galaxies" (talk)
USTC Dept. of Astronomy-Xinjiang Astronomical Observatory Joint Seminar, Hefei, Anhui, China, 2015/11

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, 2015/10

42. "Scientific Layout of Chinese Ground-Based Optical/Infrared Telescopes" (observational site field trip)
Ali Observatory, Ali, Tibet, China, 2015/09

41. "Evolution in the Black Hole-Galaxy Scaling Relations and the Duty Cycle of Nuclear Activity in Star-forming Galaxies" (talk)
2nd Workshop on Key Problems in Galaxy Evolution, Shandong University, Weihai, Shandong, China, 2015/08

40. "Photometric Redshifts in the Hawaii-Hubble Deep Field-North" (poster)
The IAU XXIX General Assembly, Honolulu, Hawaii, USA, 2015/08

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, 2015/07

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, 2015/07

37. "Recent Efforts on Obscured AGN Demography from the Chandra Deep Fields" (colloquium)
Center for Astronomy and Astrophysics, Shanghai Jiao Tong University, Shanghai, China, 2015/06

36. "Black Hole Accretion and AGN Feedback" (conference)
Shanghai Astronomical Observatory, Shanghai, China, 2015/06

35. "Recent Efforts on Obscured AGN Demography from the Chandra Deep Fields" (colloquium)
Dept. of Astronomy, Xiamen University, Xiamen, Fujian, China, 2015/05

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, 2015/05

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, 2015/03

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, 2014/11

31. "Photometric Redshifts in the Hawaii-*Hubble* Deep Field-North" (talk)
Chinese Astronomical Society Annual Meeting, Xi'an, Shanxi, China, 2014/10

30. "Hunting for the Source Population Responsible for the Unresolved Cosmic 6–8 keV Background" (talk)
Xinjiang Astronomical Observatory-USTC Dept. of Astronomy Joint Seminar, Urumqi, Xinjiang, China, 2014/07

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, 2014/05

28. "Obscured AGN Demography through Cosmic Time: Results from the *Chandra* Deep Field-South" (colloquium)
Shanghai Astronomical Observatory, Shanghai, China, 2014/04

27. "Mini-workshop on Cosmology and Galaxy Formation " (workshop)
Center for Astronomy and Astrophysics, Shanghai Jiao Tong University, Shanghai, China, 2014/03

26. "ATHENA (the Advanced Telescope for High ENergy Astrophysics) Kick-off Meeting" (workshop)
Max-Planck-Institute for Extraterrestrial Physics (MPE), Garching, Germany, 2014/01

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, 2013/11

24. "*Chandra* Deep Field-South: Toward Understanding the Demography of distant obscured AGNs" (colloquium)
School of Astronomy & Space Science, Nanjing University, Nanjing, Jiangsu, China, 2013/10

23. Working Meeting of Key Laboratory for Research in Galaxies and Cosmology (CAS), Hulunbeier, Inner Mongolia, China, 2013/08

22. "Supermassive Black Hole Activity and Evolution" (workshop)
Workshop of NSFC Key Program, Tianzhushan, Anhui, China, 2013/07

21. "Recent AGN Demography Efforts from the Chandra Deep Field-South" (invited talk)
9th Zhangheng Symposium, Chinese Astronomical Society, Zhangjiajie, Hunan, China, 2013/06 – 07

20. "Recent AGN Results from the Chandra Deep Field-South" (talk)
High Energy Astrophysics Workshop, National Astronomical Observatories of China, Beijing, China, 2013/05

19. "Mini-workshop on Outflows" (workshop)
Workshop of Key Laboratory for Research in Galaxies and Cosmology (CAS), Jiuhuashan, Anhui, China, 2013/04

18. "The Next Generation Canada-France-Hawaii Telescope (ngCFHT) Workshop" (workshop)
CFHT Corporation, Hilo, Hawaii, USA, 2013/03

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, 2012/11

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, 2012/11

15. "Tracking Down the Source Population Responsible for the Unresolved Cosmic 6–8 keV Background" (talk)
220th AAS Meeting, Anchorage, Alaska, USA, 2012/06

14. "*Chandra* Deep Fields: Investigating Active Galactic Nuclei across Cosmic Time" (colloquium)
Kavli Institute for Astronomy & Astrophysics/Dept. of Astronomy, Peking University, Beijing, China, 2012/05

13. "*Chandra* Deep Fields: Recent Results on Supermassive Black Holes and Their Host Galaxies" (invited talk)
*Workshop on Ecosystems of Galaxies*, USTC, Hefei, Anhui, China, 2012/05

12. "Active Galaxy Ecology through Cosmic Time: Results from Deep Extragalactic Surveys" (colloquium)
Dept. of Astronomy, USTC, Hefei, Anhui, China, 2011/07

11. "Black Hole-Jet Systems: From Blazars to Microquasars" (colloquium)
Dept. of Physics, Xiamen University, Xiamen, Fujian, China, 2009/10

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, 2009/10

9. "Black Hole-Jet Systems: From Blazars to Microquasars" (colloquium)
Dept. of Physics & Space Sciences, Florida Institute of Technology, Melbourne, Florida, USA, 2008/02

8. "Toward Understanding the Spectral Energy Distribution of Microquasars" (dissertation talk)
211th AAS Meeting, Austin, Texas, USA, 2008/01

7. "Toward Understanding the Spectral Energy Distribution of Microquasars" (colloquium)
Dept. of Physics, George Washington University, Washington D.C., USA, 2007/09

6. "Toward Understanding the Spectral Energy Distribution of Microquasars" (seminar)
Astrophysics/High Energy Physics Seminar, Dept. of Physics, Purdue University, West Lafayette, Indiana, USA, 2007/09

5. "Toward Understanding the Spectral Energy Distribution of Microquasars. I. Multiwavelength Properties of XTE J1550−564" (poster)
209th AAS Meeting, Seattle, Washington, USA, 2007/01

4. "X-ray Spectral Variability of TeV Blazars during Rapid Flares" (poster)
207th AAS Meeting, Washington D.C., USA, 2006/01

3. "The INTEGRAL Data Analysis Workshop" (workshop)
NASA/GSFC, Greenbelt, Maryland, USA, 2005/11

2. "A Re-Investigation to the Death Line of Radio Pulsars" (talk)
IAU Symposium No. 214, *High Energy Processes and Phenomena in Astrophysics*, Suzhou, China, 2002/08

1. "An Accretion Disk Model for Periodic Variations of PSR B1828−11" (talk)
*Sino-German Radio Astronomy Conference on Radio Studies of Galactic Objects, Galaxies and AGNs*, Xi'an, Shanxi, China, 2002/07

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## ♠ Publications (NASA/ADS) (Back to Top)

⋆ *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*
♮ *signifies a joint USTC postdoc working with Y. Q. Xue*
§ *signifies a USTC special-term associate researcher working with Y. Q. Xue*

### I. Refereed Papers

112. "Exploring the Fundamental Mechanism in Driving Highest-velocity Ionized Outflows in Radio AGNs" [PDF]
[†]Ayubinia, A., **Xue, Y. Q.**, Woo, J.-H., [§]Le, H. A. N., He, Z. C., Miraghaei, H., & [‡]Lin, X. Z. 2022, *Universe*, 8, 559

111. "Spectral Energy Distributions in Three Deep-drilling Fields of the Vera C. Rubin Observatory Legacy Survey of Space and Time: Source Classification and Galaxy Properties" [PDF]
Zou, F., Brandt, W. N., Chen, C.-T., Leja, J., Ni, Q. L., Yan, W., Yang, G., Zhu, S. F., Luo, B., Nyland, K., Vito, F., & **Xue, Y. Q.** 2022, *ApJS*, 262, 15

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15. "Mapping the Inner Structure of Quasars with Time-Domain Spectroscopy" [PDF]
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## III. Book Chapters

1. "Chapter 3: Space Astronomy" in "Strategies for Discipline Development in China — Space Science" ed. National Natural Science Foundation of China & Chinese Academy of Sciences (Science Press/China Science Publishing & Media Ltd), 2019, 100–149 (**Xue Y. Q.** as a contributing group member; group leaders: Shuang-Nan Zhang & Bobing Wu)

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