

Yang Huang

Curriculum Vitae

PERSONAL DETAILS

Birth Date May 29, 1989
Birth Place Wuwei, Anhui, China
Address 20A Datun Road, Chaoyang District, Beijing, 100101, China
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EDUCATION

Ph.D. in Astrophysics 2011-2016
Peking University, China

B.S. in Applied Physics 2007-2011
Anhui University, China

B.A. in English 2009-2011
Anhui University, China

EMPLOYMENT

Associate Professor 2023-present
School of Astronomy and Space Science, University of the Chinese Academy of Sciences, China

Visiting Scholar 2022-2023
National Astronomical Observatories, Chinese Academy of Sciences, China

Associate Director 2020-2022
SWIFAR, Yunnan University, China

Associate Professor 2018-2022
SWIFAR, Yunnan University, China

Postdoctoral Researcher & LAMOST Fellow 2016-2018
Peking University, China
The LAMOST FELLOWSHIP is supported by Special fund for Advanced Users, budgeted and administrated by Center for Astronomical Mega-Science, Chinese Academy of Sciences (CAMS).

RESEARCH INTERESTS

- Large-scale spectroscopic & photometric surveys
- Galactic dynamics and Galactic archaeology
- Stellar astrophysics
- Compact objects and related physics
- Active galactic nucleus (AGN) & merging galaxies

SELECTED AWARDS & HONORS

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| 2024 | “Measurements of the Galactic mass” was awarded the 2023 UCAS Top 10 News |
| 2022 | Outstanding Reviewer for RAA in 2021 |
| 2020 | International Astronomical Union Junior Member |
| 2019 | Chinese Astronomical Society Member |
| 2019 | Young Talents of the “Thousand Talents Project” of Yunnan Province |
| 2017 | International Astronomical Union PhD Prize |
| 2012-2016 | Presidential Fellowship, Peking University (RMB: 51,000 yuan/year) |
| 2014-2015 | National Scholarship for Ph.D. Student (Chinese top scholarship) |
| 2013-2014 | Leo KoGuan Scholarship, Peking University |
| 2013 | Top 10 progress of Chinese astronomy 2012, co-I |

GRANTS

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| 2023-2028 | National Key R&D Program, 3M RMB (PI of sub-project) |
| 2023-2028 | Strategic Priority Research Program, CAS, 3M RMB (PI of sub-project) |
| 2024-2027 | CAS Talent Program (Class-B), 4M RMB |
| 2021-2022 | Cultivation Project for LAMOST Scientific Payoff and Research Achievement of CAMS-CAS, 93k RMB |
| 2020-2022 | Natural Science Foundation of China Youth Fund, 300k RMB |
| 2019-2024 | National Key R&D Program of China, core member |
| 2019-2023 | Natural Science Foundation of China Key Program, core member |
| 2019-2020 | Cultivation Project for LAMOST Scientific Payoff and Research Achievement of CAMS-CAS, 50k RMB |
| 2018-2022 | Yunnan University Grant, 1.5M RMB |
| 2017-2019 | General Program, China Postdoctoral Science Foundation, 50k RMB |
| 2016-2019 | LAMOST Fellowship, Chinese Academy of Sciences, 150k RMB |

SERVICE

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| 2020- | Referee for RAA, AAS and A&A journals |
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VISITING EXPERIENCE

- University of Notre Dame, 2024.05.07-2024.05.19, hosted by Prof. Timothy Beers
- Peking University, 2022.07.01-2022.07.16, hosted by Prof. Huawei Zhang
- NAOC, 2022.05-2023.05, hosted by Prof. Jifeng Liu
- Peking University, 2021.10.19-2021.10.22, hosted by Prof. Subo Dong
- Xiamen University, 2021.05.12-2021.05.14, hosted by Prof. Weimin Gu
- Korea Astronomy and Space Science Institute, 2019.10.30-2019.11.01, hosted by Prof. Chung-uk Lee
- Oxford University, 2019.07.25-2019.08.10, hosted by Prof. James Binney
- Anhui University, 2018.11.16-2018.11.17, hosted by Prof. Liang Lv and Prof. Gang Li
- Beijing Normal University, 2018.11.11-2018.11.15, hosted by Dr. Haibo Yuan
- Macquarie University, 2018.03.23-2018.03.30, Visiting Scholar, hosted by Dr. Chengyuan Li
- China Three Gorges University, 2018.01.14-2018.01.16, hosted by Dr. Gaochao Liu
- Max Planck Max Planck Institute of Solar Research, 2017.10.01-2017.10.07, hosted by Dr. Saskia Hekker & Alexey Mints
- Oxford University, 2017.09.01-2017.09.30, hosted by Prof. James Binney
- Hebei Normal University, 2017.03.09-2017.03.10, hosted by Dr. Minzhi Kong & Prof. Ji Li

COLLABORATION

- Southern Photometric Local Universe Survey (SPLUS): External member (2020–)
- Javalambre Physics of the Accelerating Universe Astrophysical Survey (J-PAS): Member (2019–)

PUBLICATIONS

First-author OR corresponding-author (with *) papers: (See my all publications in: [My ADS Library](#), H-index = 33)

46. Changqing Luo, ..., **Yang Huang***, Xuefei Chen*, Chao Liu*, *A born ultramassive white dwarf-hot subdwarf super-Chandrasekhar candidate*, submitted
45. **Yang Huang** et al., *A high-velocity star recently ejected by an intermediate-mass black hole in M15*, submitted to National Science Review
44. **Yang Huang** et al., *A slightly oblate dark matter halo revealed by a retrograde precessing Galactic disk warp*, Nature Astronomy

43. Kai Xiao, Bowen Huang, **Yang Huang***, Haibo Yuan* et al., *Filter Design for Estimation of Stellar Metallicity: Insights from Experiments with Gaia XP Spectra*, ApJL, 968, 24, 2024
42. Huiling, **Yang Huang***, Wei Zhu et al., *The Kinematic and Chemical Properties of the Close-in Planet Host Star 8 UMi*, ApJL, 966, 27, 2024
41. Ruifeng Shi, **Yang Huang***, Xinyi Li and Huawei Zhang, *On the Performances of Estimating Stellar Atmospheric Parameters from CSST Broad-band Photometry*, RAA, 24, 5015, 2024
40. Kai Xiao, **Yang Huang***, Haibo Yuan* et al., *S-PLUS: Photometric Re-calibration with the Stellar Color Regression Method and an Improved Gaia XP Synthetic Photometry Method*, ApJS, 271, 41, 2024
39. Weixiang Sun, **Yang Huang***, Han Shen et al., *Mapping the Galactic Disk with the LAMOST and Gaia Red Clump Sample. VIII. Mapping the Kinematics of the Galactic Disk Using Mono-age and Mono-abundance Stellar Populations*, ApJ, 961, 141, 2024
38. Qingzheng Li, **Yang Huang***, Xiaobo Dong, *An update of the catalog of radial velocity standard stars from the APOGEE DR17*, RAA, 23, 5026, 2023
37. **Yang Huang** et al., *Beyond spectroscopy. II. Stellar parameters for over twenty million stars in the northern sky from SAGES DR1 and Gaia DR3*, ApJ, 961, 141, 2023
36. Shan Zhang, Gaochao Liu*, **Yang Huang*** et al., *Probing the Galactic halo with RR Lyrae stars - IV. On the Oosterhoff dichotomy of RR Lyrae stars*, MNRAS, 525, 5915, 2023
35. Qing-zhen Li, **Yang Huang***, Xiao-bo Dong* et al., *On the Origins of Extreme Velocity Stars as Revealed by Large-scale Galactic Surveys*, AJ, 166, 12, 2023
34. Chun Wang*, **Yang Huang***, Yutao Zhou, Huawei Zhang, *Precise Masses, Ages of 1.0 million RGB and RC stars observed by the LAMOST*, A&A, 675, 26, 2023
33. Yuan Zhou, Xinyi Li, **Yang Huang***, Huawei Zhang, *The Circular Velocity Curve of the Milky Way from 5 to 25 kpc using luminous red giant branch star*, ApJ, 946, 73, 2023
32. Xinyi Li, **Yang Huang*** et al., *Photometric metallicity and distance estimates for sim 136,000 RR Lyrae stars from Gaia DR3*, ApJ, 944, 88, 2023
31. Gaochao Liu, **Yang Huang***, Sarah Ann Bird et al., *Probing the Galactic halo with RR Lyrae stars III. The chemical and kinematic properties of the stellar halo*, MNRAS, 517, 2787, 2022
30. Chun Wang*, **Yang Huang***, Haibo Yuan, Huawei Zhang, Maosheng Xiang, Xiaowei Liu*, *The value-added catalogue for LAMOST DR8 low-resolution spectra*, ApJS, 259, 51, 2022
29. **Yang Huang**, Beers Timothy, C. Wolf Christian et al., *Beyond spectroscopy. I. Metallicities, distances, and age estimates for over twenty million stars from SMSS DR2 and Gaia EDR3*, ApJ, 925, 164, 2022
28. Yong Yang, Chengyuan Li*, **Yang Huang***, Xiaowei Liu*, *At what mass are stars braked? The implication from the turnoff morphology of NGC 6819*, ApJ, 925, 159, 2022

27. **Yang Huang** et al., *Erratum "Milky Way Tomography with the SkyMapper Southern Survey. II. Photometric Recalibration of SMSS DR2" (2021, ApJ, 907, 68)*, ApJ, 924, 141, 2022
26. Yangwei Zhang, **Yang Huang***, Jinming Bai* et al., *A SysTematic seaRch fOr Dual Agns in meRgINg Galaxies (ASTRO-DARING) III: results from the SDSS spectroscopic surveys*, AJ, 162, 276, 2021
25. Yangwei Zhang, **Yang Huang***, Jinming Bai* et al., *A SysTematic seaRch fOr Dual Agns in meRgINg Galaxies (ASTRO-DARING) II: first results from long-slit spectroscopic observations*, AJ, 162, 289, 2021
24. F. Wang, H.-W. Zhang*, **Y. Huang*** et al., *Local stellar kinematics and oort constants from the LAMOST A-type stars*, MNRAS, 504, 199, 2021
23. **Y. Huang** et al., *The Parallax Zero-Point of Gaia Early Data Release 3 from LAMOST Primary Red Clump Stars*, ApJL, 910, 5, 2021
22. **Y. Huang** et al., *Discovery of A candidate Hypervelocity star originated from the Sagittarius Dwarf Spheroidal galaxy*, ApJL, 907, 42, 2021
21. **Y. Huang** et al., *Milky Way Tomography with the SkyMapper Southern Survey. II. Photometric Re-calibration of SMSS DR2*, ApJ, 907, 68, 2021
20. H.-F. Wang*, **Y. Huang*** et al., *Diagonal Ridge pattern of different age populations found in Gaia DR2 with LAMOST Main-Sequence-Turn-Off and OB type Stars*, ApJ, 902, 70, 2020
19. W.-X. Sun, **Y. Huang*** et al., *Mapping the Galactic disk with the LAMOST and Gaia Red clump sample: V: On the origin of the "young" $[\alpha/Fe]$ -enhanced stars*, ApJ, 903, 12, 2020
18. X.-Y. Li, **Y. Huang*** et al., *Mapping the Galactic disk with the LAMOST and Gaia Red clump sample: IV: The Kinematic Signature of the Galactic Warp*, ApJ, 901, 56, 2020
17. **Y. Huang** et al., *Mapping the Galactic disk with the LAMOST and Gaia Red clump sample: I: precise distances, masses, ages and 3D velocities of ~ 140000 red clump stars*, ApJS, 249, 29, 2020
16. G.C. Liu, **Y. Huang*** et al., *Probing the galactic halo with RR Lyrae stars I: The catalog*, ApJS, 247, 68, 2020
15. Haifeng Wang*, Jeffrey L. Carlin, **Y. Huang*** et al., *Mapping the Galactic Disk with the LAMOST and Gaia Red Clump Sample. III. A New Velocity Substructure and Time Stamps of the Galactic Disk Asymmetry in the Disk between 12 and 15 kpc*, ApJ, 884, 135, 2019
14. **Y. Huang** et al., *A New Luminous blue variable in the outskirts of the Andromeda Galaxy*, ApJL, 884, 7, 2019
13. **Y. Huang** et al., *Milky Way tomography with the SkyMapper Southern Survey: I: Atmospheric parameters and distances of one million red giants*, ApJS, 243, 7, 2019
12. **Y. Huang** et al., *Member stars of the GD1 tidal stream from the SDSS, LAMOST and Gaia surveys*, ApJ, 877, 13, 2019

11. **Y. Huang** et al., *On the kinematic signature of the Galactic warp as revealed by the LAMOST-TGAS data*, ApJ, 864, 129, 2018
10. **Y. Huang** et al., *A new catalogue of radial velocity standard stars from the APOGEE data*, AJ, 156, 90, 2018
9. **Y. Huang** et al., *The Galactic mass distribution from the LAMOST Galactic spectroscopic surveys*, IAU Symposium, 330, 220, 2018
8. **Y. Huang** et al., *Discovery of Two New Hypervelocity Stars from the LAMOST Spectroscopic Surveys*, ApJL, 847, 9, 2017
7. **Y. Huang** et al., *The Milky Way's rotation curve out to 100 kpc and its constraint on the Galactic mass distribution*, MNRAS, 463, 2623, 2016
6. Y.-W. Zhang, **Y. Huang*** et al., *Kinematic properties of the dual AGN system J0038+4128 based on long-slit spectroscopy*, RAA, 16, 5, 2016
5. **Y. Huang** et al., *Empirical Metallicity-dependent Calibrations of Effective Temperature against Colors for Dwarfs and Giants Based on Interferometric Data*, MNRAS, 454, 2863, 2015
4. N.-C. Sun, X.-W. Liu*, **Y. Huang*** et al., *Galactic Disk Bulk Motions as Revealed by the LSS-GAC DR2*, RAA, 15,1342, 2015
3. **Y. Huang** et al., *On the Metallicity Gradients of the Galactic Disk as Revealed by the LSS-GAC Red Clump Stars*, RAA, 15, 1240, 2015
2. **Y. Huang** et al., *Determination of the local standard of rest using the LSS-GAC DR1*, MNRAS, 449, 162, 2015
1. **Y. Huang** et al., *HST and LAMOST Discover a Dual Active Galactic Nucleus in J0038+4128*, MNRAS, 439, 2927, 2014

CONFERENCES & WORKSHOPS

33. Beijing Astronomical Society 2024 Annual Academic Symposium, Beijing, China, 19-21 April, 2024
Invited talk: *Perturbation history of our Milky Way Disk*
32. CSST Research Progress Symposium on the Milky Way and Nearby Galaxies, Kunming, China, 15-18, Jan. 2024
Contributed talk: Beyond spectroscopy
31. Symposium on frontiers of underground and space physics and cosmophysics, 7-12 May, 2023
Contributed talk: Mapping the distribution of dark matter in our Galaxy

30. ACAMAR Future of Traditional Survey Science, virtual workshop, 22-24 September, 2021
Invited talk: *Milky Way studies in the era of large-scale surveys (LAMOST)*
29. Calibration Workshop on the Space-based and Ground-based Optical-IR Telescopes, Shanghai, China, 24-26 March, 2021
Invited talk: *Multi-channel Photometric Survey Telescope - Mephisto And Calibration strategy*
28. The 4th TAP Workshop for Optical-Infrared Astronomy in China, Xiamen, China, 15-17, Dec, 2019
Contributed talk: *A systematic search for dual AGNs in merging galaxies (ASTRO-DARING)*
27. The Milky Way 2019: LAMOST and Other Leading Surveys, Yichang, China, 14-18, Oct., 2019
Invited talk: *Multi-channel Photometric Survey Telescope - Mephisto*
26. 2019 Advanced Telescope and Instrument Technology Conference, Gaoxiong, China, 2-5, Sep., 2019
Contributed talk: *Multi-channel Photometric Survey Telescope - Mephisto*
25. IAUS 353: Galactic dynamics in the era of large surveys, Shanghai, China, 30 June - 5 July, 2019
Invited talk: *Stellar kinematics and metallicities from LAMOST*
24. The 1st Donglu Astrophysics Forum, Kunming, China, 01-03 April, 2019
Galactic kinematics and dynamics from the LAMOST & Gaia Surveys
23. Galactic Archaeology in the Gaia era, Sexten, Italy, 28 Jan. - 01 Feb., 2019
The LAMOST Galactic Spectroscopic Surveys
22. The life and times of the Milky Way, Shanghai, China, 12-16, Nov., 2018
Invited talk: *The Galactic stellar halo in the era of large-scale surveys*
21. XXXth General Assembly of the International Astronomical Union, Vienna, Austria, 20-31, Aug., 2018
IAU PhD prize talk: *Galactic kinematics and dynamics from the LAMOST Galactic Spectroscopic Surveys*
Contributed talk at IAUS 348: *A Systematic Search for Hypervelocity Stars from the LAMOST Spectroscopic Survey*
20. ACAMAR 4: Australia-China Workshop on Astrophysics, Chengdu, China, 6-8 June, 2018
Invited talk: *Galactic kinematics and dynamics from the LAMOST Galactic Spectroscopic Survey*
19. Chemical and dynamical evolution of galaxies, Sextan, Italy, 21-26 Jan., 2018
Contributed talk: *Chemical and kinematical evolution of the Galactic disc(s) as revealed by the LAMOST-TGAS*
18. China-VO and Astroinformatics, Dali, Yunnan, China, Nov. 29 - Dec. 3, 2017
17. Open Skies from China to South Africa – Sharing Resources and Building Collaborations in Optical and Infrared Astronomy, Lijiang, Yunnan, China, Oct. 30 - Nov. 1, 2017

- Contributed talk: *Chemodynamic Evolution of the Galactic Disc(s) as Revealed by the LAMOST-TGAS*
16. 2nd LAMOST-Kepler workshop, Brussels, Belgium, July 31 - August 3, 2017
Contributed talk: *Galactic kinematics and dynamics from the LAMOST Galactic Spectroscopic Surveys (presentation via Skype)*
 15. 13th Asian-Pacific Regional IAU Meeting, Taipei, China, July 3-7, 2017
Contributed talk: *A Systematic Search for Dual AGNs in Merging Galaxies*
Contributed talk: *Understanding the formation and evolution of the Galactic disc(s) using Mono-Age Population Phase-space Distributions (MAPPED) analysis*
 14. IAU symposium 330: Astrometry and Astrophysics in the Gaia Sky, Nice, France, April 24-28, 2017
Poster: *The mass distribution of the Milky Way*
 13. 11th Zhangheng Academic Symposium, Guiyang, Guizhou, China, June 23-26, 2017
Contributed talk: *Estimating the mass of our Milky Way from the LAMOST Galactic spectroscopic survey*
 12. Near-field cosmological structure formation, Zhuhai, Guangzhou, China, Dec. 19-23, 2016
Contributed talk: *Estimating the mass of our Milky Way from the LAMOST Galactic spectroscopic survey*
 11. Galactic Archaeology & Stellar Physics, Canberra, Australia, November 21-25, 2016
Poster: *Dissecting the Galactic disc(s) in multi-dimensional age-metallicity-phase space using the LSS-GAC data*
 10. Annual Conference of Chinese Astronomical Society, Wuhan, Hubei, China, Nov. 1-3, 2016
Contributed talk: *Toward a uniform calibration of the stellar atmospheric parameters on the era of large-scale Galactic spectroscopic survey*
 9. The Milky Way and its environment: gaining insights into the drivers of galaxy formation and evolution, Institut d'Astrophysique de Paris in Paris, France, Sept. 19-23, 2016.
Contributed talk: *The Milky Way's rotation curve out to 100 kpc and its constraint on the Galactic mass distribution*
 8. Workshop on Astronomical distance determination in the space age, Beijing, China, May 23-27, 2016
Invited talk: *Chemical and kinematic studies of the Milky Way based on the LAMOST spectroscopic survey of the Galactic anti-center (LSS-GAC) red clump sample*
 7. LAMOST-TGAS mini-workshop, Beijing, China, Mar. 24-25, 2016
Contributed talk: *Velocity & metallicity distribution function of the solar neighborhood*
 6. Annual Conference of Chinese Astronomical Society, Beijing, China, Oct. 19-21, 2015
Contributed talk: *The Milky Way's rotation curve out to 100 kpc using LSS-GAC and SDSS data*
 5. The 2015 KIAA-SHAO Bilateral Workshop, Beijing, China, May 18-19, 2015
Contributed talk: *The Milky Way's rotation curve between 8 and 15 kpc from LSS-GAC red clump stars*

4. Sino-French “LIA-ORIGINS” Workshop, Beijing, China, Oct. 21-24, 2014
Contributed talk: *Determination of the Local Standard of Rest using the LSS-GAC DR1*
3. 12th Asia-Pacific Regional IAU Meeting, Daejeon, Korea, Aug. 18-22, 2014
Contributed talk: *Systematic search for kpc-scale dual AGN candidates*
Poster: *Determination of the Local Standard of Rest using the LSS-GAC data*
2. Chinese 2m-class optical telescope operation meeting, Kunming, China, Aug. 6-8, 2014
Contributed talk: *Follow-up observations of kpc-scale dual AGN candidates by 2.16 and 2.4 Meter Telescopes*
1. Annual Conference of Chinese Astronomical Society, Suzhou, Jiangsu, China, Oct. 27-31, 2013
Contributed talk: *The Local Standard of Rest determined by the LSS-GAC*

LAMOST USER TRAINING WORKSHOP

9. 9th, Guiyang, Guizhou, China, June 24-26, 2024
Invited talk: *Perturbation history of our Milky Way Disk*
8. 8th, BNU, Beijing, China, June 24-26, 2023
Invited talk: *On the origins of Hypervelocity stars as revealed by large-scale Galactic surveys – II*
7. 7th, YNAO, Kunming, Yunnan, China, July 5-7, 2021
Invited talk: *On the origins of Hypervelocity stars as revealed by large-scale Galactic surveys – I*
6. 6th, SHAO, Shanghai, China, July 6-7, 2019
Invited talk: *Galactic kinematics and dynamics from the LAMOST & Gaia Surveys*
5. 5th, Huairou, Beijing, China, July 1-2, 2018
Contributed talk: *The chemical and kinematic properties of Milky Way Based on the LAMOST Survey – Final Report*
4. 4th, Huairou, Beijing, China, July 1-2, 2017
Contributed talk: *The chemical and kinematic properties of Milky Way Based on the LAMOST Survey – Progress*
3. 3rd, Daxing, Beijing, China, July 13-14, 2016
Contributed talk: *The Milky Way’s rotation curve out to 100 kpc*
2. 2nd, Huairou, Beijing, China, July 7-9, 2015
Invited talk: *Study kinematics and chemical evolution of Milky Way using LSS- GAC data*
1. 1st, Xinglong, Hebei, China, July 1-3, 2014
Contributed talk: *Systematic search for kpc-scale dual AGN by LAMOST*

COLLOQUIA & SEMINARS

19. School of Physics and Astronomy, Sun Yat-sen University, June, 19, 2023, *Perturbation history of the Milky Way disk*

18. Beijing Planetarium, August, 28, 2023, *Probing the Galactic Halo with RR Lyrae Stars*
17. Qilu Normal University, June, 05, 2023, *Galactic archeology based on large-scale surveys*
16. Anhui University, April, 19, 2023, *Measurements of stellar parameters from the large-scale surveys*
15. NAOC, March, 03, 2023, *Measurements of stellar parameters from the large-scale surveys*
14. School of Physics and Electronics, Hunan Normal University, May, 24, 2022, *The mass distribution of our Galaxy from the large-scale surveys*
13. KIAA, Peking University, October, 21, 2021, *On the origins of Hypervelocity stars as revealed by large-scale Galactic surveys*
12. Department of Astronomy, Xiamen University, May, 13, 2021, *Galactic kinematics and dynamics from the LAMOST & Gaia Surveys*
11. School of Physics and Astronomy, Sun Yan-sen University, June, 17, 2019, *The LAMOST Galactic spectroscopic surveys*
10. School of Astronomy and Space Science, Nanjing University, CAS, May 8, 2019, *The LAMOST Galactic spectroscopic surveys*
9. Nanjing Institute of Astronomical Optics and Technology, National Astronomical Observatories, CAS, December 18, 2018, *Galactic kinematics and dynamics from the LAMOST Galactic Spectroscopic Surveys*
8. School of Physics and Materials Science, Anhui University, December 16, 2018, *The LAMOST Galactic spectroscopic surveys*
7. Department of Astronomy, Beijing Normal University, December 11, 2018, *Galactic kinematics and dynamics from the LAMOST Galactic Spectroscopic Surveys*
6. Research Centre for Astronomy, Astrophysics and Astrophotonics, Macquarie University, March 29, 2018, *The LAMOST Galactic spectroscopic surveys*
5. Research School of Astronomy & Astrophysics, ANU, March 19, 2018, *The LAMOST Galactic spectroscopic surveys*
4. Cambridge University, Sept. 27, 2017, *Chemical and kinematical studies of the Milky Way based on the LAMOST Galactic Spectroscopic Surveys*
3. Yunnan University, Sept. 13, 2016, *Chemical and kinematical studies of the Milky Way based on the LAMOST spectroscopic survey of the Galactic anti-center (LSS-GAC)*
2. Shanghai Astronomical Observatory, CAS, July 1, 2015, *Study local velocity fields and determine rotation curve of the Milky Way using LSS-GAC data*
1. Peking University, Oct. 22, 2013, *The local standard of rest and radial velocity bifurcation features at the Galactic disk from the LSS-GAC*

OBSEVATIONAL EXPERIENCE

- one night with CFHT telescope at CFH observatory (remote), Hawaii, USA
- 5 nights with Hale 5.1-m Telescope at Palomar Observatory (remote), California, USA
- Over 10 nights with LAMOST at Xinglong Observatory, Hebei, China
- Over 60 nights with the 2.16-m Telescope at Xinglong Observatory, Hebei, China
- Over 80 nights with the 2.4-m Telescope at Gaomeigu Observatory, Yunnan, China

TEACHING EXPERIENCE

- 2024-2024: **Advanced Astronomy** at UCAS
- 2023-2023: **Opportunities and Challenges of Large-Scale Time-Domain Surveys** at UCAS
- 2019-2021: **A guide to reading research papers** at Yunnan University
- 2018-2021: **An introduction to Astronomy** at Yunnan University
- 2014: Lecturer and Mentor of the Third Observational Astronomy Workshop of Xinglong Station
- Teaching assistant at Peking University:
 - Interstellar Medium:** Spring/2014 (recitation)
 - Cosmology:** Spring/2014 (recitation)