Kai Zhang

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Information 1 Cyclotron Rd, Berkeley E-mail:

CA, 94720 KZhang3@lbl.gov

Research Interests Spectroscopic Sky Survey Focal Plane Instrument

Fiber Positioner Research and Developement

Ionized Gas in Star-forming Galaxies, Early-Type Galaxies, and AGNs

Diagnostic Diagrams and Metallicity Estimation

AGN Outflows

Application of Machine Learning Technics to astrophysics problems

Parallel Computing

Experience May. 2017- Now: DESI Project Scientist

Lawrence Berkeley National Lab

Supervisor: David Schlegel, Stephen Bailey, LBNL

Work description: Fiber positioner control software development,

Fiber positioner anticollision algorithm development,

Fiber positioner testing, MPI spectral pipeline implementation.

Machine learning classifiers for intermediate redshift emission line galaxies classification.

June. 2014 - April. 2017: MaNGA Operations Manager

Unviersity of Kentucky

Supervisor: Prof. Renbin Yan, University of Kentucky

Work description: Developed the MaNGA QA pipeline for daily data quality monitoring.

Studied the impact of diffuse ionized gas on line ratios,

diagnostic diagrams and metallicity.

July. 2012 - May, 2014: Post-doc

Shanghai Astronomical Observatory, China.

Supervisor: Prof. Lei Hao, Shanghai Astronomical Observatory.

Work description: Developed the Kinematic-Excitation Diagram for

classifying intermediate redshift emission line galaxies.

Education Sept. 2007 - June. 2012: Ph.D student

Center for Astrophysics, University of Science and Technology, China.

Supervisor: Prof. Tinggui Wang, Center for Astrophysics, USTC. Topic: Partially Obscured QSO in SDSS, [OIII] emission in AGN

Sept. 2003 - Jun. 2007: B.Sc

Department of Physics, University of Science and Technology, China.

Supervisor: Prof. Tinggui Wang, Center for Astrophysics, USTC.

Topic: MgII fitting, Partially-Obscured QSO in SDSS.

First-Author Publications

Machine Learning Classifiers for Intermediate Redshift Emission Line Galaxies, Kai Zhang, David J. Schlegel, Johan Comparat, Christoph Schäfer, Brett H. Andrews, Jose Antonio Vazquez

Mata, Jean-Paul Kneib, Renbin Yan 2019ApJ, 883, 63Z

Dark Energy Spectroscopic Instrument (DESI) Fiber Positioner Thermal and Wind Disturbance Test, Kai Zhang; Joseph H. Silber; Henry D. Heetderks; Daniela Leitner; Michael Schubnell; Michael Levi; Gradey Wang; Kevin Fanning; Parker Fagrelius; Carl Dobson; Jessica Aguilar SPIE Astronomical Telescopes + Instrumentation, 2018, Austin, Texas, United States; Proceedings Volume 10706, Advances in Optical and Mechanical Technologies for Telescopes and Instru-

mentation III; 107064R (2018) https://doi.org/10.1117/12.2314666

A New Diagnostic Diagram of Ionization Source for High Redshift Emission Line Galaxies, Kai Zhang, Lei Hao, 2018 ApJ 856, 171

SDSS-IV MaNGA: The Impact of Diffuse Ionized Gas on Emission-line Ratios, Interpretation of Diagnostic Diagrams, and Gas Metallicity Measurements, Kai Zhang, Renbin Yan, Kevin Bundy, Matthew Bershady, L. Matthew Haffner, René Walterbos, Roberto Maiolino, Daniel Thomas, Niv Drory, Christy Tremonti, Francesco Belfiore, Sebastian F. Sanchéz, Amy Jones, Aleksandar M. Diamond-Stanic, Dmitry Bizyaev, Christian Nitschelm, Brett Andrews, Jon Brinkmann, Joel R. Brownstein, Edmond Cheung, Cheng Li, David R. Law, Alexandre Roman Lopes, Daniel Oravetz, Kaike Pan, Thaisa Storchi-Bergmann, Audrey Simmons 2017 MNRAS 466, 3217

Connection Between Mid-Infrared Emission Properties and Narrow Line Region Outflows in Type 1 Active Galactic Nuclei, Kai Zhang, Tinggui Wang, Lin Yan, Xiao-bo Dong, 2013 ApJ 768, 22

The Baldwin Effect in the Narrow Emission Lines of Active Galactic Nuclei, Kai Zhang, Tinggui Wang, C. Martin Gaskell, Xiao-bo Dong, 2013 ApJ 762, 51

Blueshifting and Baldwin effects for $[O\ III]\lambda 5007$, Kai Zhang, Xiao-bo Dong, Tinggui Wang, C. Martin Gaskell. 2011 ApJ 737, 71

Difference in Narrow-Emission-Line Spectra of Seyfert 1 and 2 Galaxies, Kai Zhang, Tinggui Wang, Xiao-bo Dong, Honglin Lu, 2008 ApJ 685, 109.

Exploring the Partially-Obscured BLR and Partially-Covered NLR, Kai Zhang, Tinggui Wang, Xiao-bo Dong, arXiv:0902.4390, The Starburst-AGN Connection. ASP Conference Series, Vol. 408

Co-author Publications (selected)

Overview of the DESI Legacy Imaging Surveys, Dey, Arjun; Schlegel, David J.; Lang, Dustin; Blum, Robert; Burleigh, Kaylan; Fan, Xiaohui; Findlay, Joseph R.; Finkbeiner, Doug; Herrera, David; Juneau, Stphanie; Landriau, Martin; Levi, Michael; McGreer, Ian; Meisner, Aaron; Myers, Adam D.; Moustakas, John; Nugent, Peter; Patej, Anna; Schlafly, Edward F.; Walker, Alistair R.; Valdes, Francisco; Weaver, Benjamin A.; Yche, Christophe; Zou, Hu; Zhou, Xu; Abareshi, Behzad; Abbott, T. M. C.; Abolfathi, Bela; Aguilera, C.; Alam, Shadab; Allen, Lori; Alvarez, A.; Annis, James; Ansarinejad, Behzad; Aubert, Marie; Beechert, Jacqueline; Bell, Eric F.; BenZvi, Segev Y.; Beutler, Florian; Bielby, Richard M.; Bolton, Adam S.; Briceo, Csar; Buckley-Geer, Elizabeth J.; Butler, Karen; Calamida, Annalisa; Carlberg, Raymond G.; Carter, Paul; Casas, Ricard; Castander, Francisco J.; Choi, Yumi; Comparat, Johan; Cukanovaite, Elena; Delubac, Timothe; DeVries, Kaitlin; Dev, Sharmila: Dhungana, Govinda: Dickinson, Mark; Ding, Zhejie; Donaldson, John B.; Duan, Yutong; Duckworth, Christopher J.; Eftekharzadeh, Sarah; Eisenstein, Daniel J.; Etourneau, Thomas; Fagrelius, Parker A.; Farihi, Jay; Fitzpatrick, Mike; Font-Ribera, Andreu; Fulmer, Leah; Gnsicke, Boris T.; Gaztanaga, Enrique; George, Koshy; Gerdes, David W.; Gontcho, Satya Gontcho A.; Gorgoni, Claudio; Green, Gregory; Guy, Julien; Harmer, Diane; Hernandez, M.; Honscheid, Klaus; Huang, Lijuan Wendy; James, David J.; Jannuzi, Buell T.; Jiang, Linhua; Joyce, Richard; Karcher, Armin; Karkar, Sonia; Kehoe, Robert; Kneib, Jean-Paul; Kueter-Young, Andrea; Lan, Ting-Wen; Lauer, Tod R.; Le Guillou, Laurent; Le Van Suu, Auguste; Lee, Jae Hyeon; Lesser, Michael; Perreault Levasseur, Laurence; Li, Ting S.; Mann, Justin L.; Marshall, Robert; Martnez-Vzquez, C. E.; Martini, Paul; du Mas des Bourboux, Hlion; McManus, Sean; Meier, Tobias Gabriel; Mnard, Brice; Metcalfe, Nigel; Muoz-Gutirrez, Andrea; Najita, Joan; Napier, Kevin; Narayan, Gautham; Newman, Jeffrey A.; Nie, Jundan; Nord, Brian; Norman, Dara J.; Olsen, Knut A. G.; Paat, Anthony; Palanque-Delabrouille, Nathalie; Peng, Xiyan; Poppett, Claire L.; Poremba, Megan R.; Prakash, Abhishek; Rabinowitz, David; Raichoor, Anand; Rezaie, Mehdi; Robertson, A. N.; Roe, Natalie A.; Ross, Ashley J.; Ross, Nicholas P.; Rudnick, Gregory; Safonova, Sasha; Saha, Abhijit; Snchez, F. Javier; Savary, Elodie; Schweiker, Heidi; Scott, Adam; Seo, Hee-Jong; Shan, Huanyuan; Silva, David R.; Slepian, Zachary; Soto, Christian; Sprayberry, David; Staten, Ryan; Stillman, Coley M.; Stupak, Robert J.; Summers, David L.; Sien Tie, Suk; Tirado, H.; Vargas-Magaa, Mariana; Vivas, A. Katherina; Wechsler, Risa H.; Williams, Doug; Yang, Jinyi; Yang, Qian; Yapici, Tolga; Zaritsky, Dennis;

DESI fiber positioner testing and performance, Michael Schubnell; Jessica Aguilar; Jon Ameel; Stefane Caseiro; Kevin Fanning; Brandon Freudenstein; Irena Gershkovich; Henry Heetderks; Philipp Hrler; Daniela Leitner; Michael Levi; Joseph Silber; Zhiquan Sun; Gregory Tarl; Curtis Weaverdyck; **Kai Zhang**; David Brooks SPIE Astronomical Telescopes + Instrumentation, 2018, Austin, Texas, United States; Proceedings Volume 10706, Advances in Optical and Mechanical Technologies for Telescopes and Instrumentation III; 107062A (2018) https://doi.org/10.1117/12.2311573

Dark energy spectroscopic instrument (DESI) fiber positioner production, Daniela Leitner; Jessica Aguilar; Jon Ameel; Robert Besuner; Todd Claybaugh; Henry Heetderks; Michael Schubnell; Jean-Paul Kneib; Joseph Silber; Gregory Tarl; Curtis Weaverdyck; Kai Zhang SPIE Astronomical Telescopes + Instrumentation, 2018, Austin, Texas, United States; Proceedings Volume 10706, Advances in Optical and Mechanical Technologies for Telescopes and Instrumentation III; 1070669 (2018) https://doi.org/10.1117/12.2312228

SDSS-IV MaNGA: A Serendipitous Observation of a Potential Gas Accretion Event, 2016 ApJ, 832, 182, Cheung, Edmond; Stark, David V.; Huang, Song; Rubin, Kate H. R.; Lin, Lihwai; Tremonti, Christy; Zhang, Kai; Yan, Renbin; Bizyaev, Dmitry; Boquien, Mdric; Brownstein, Joel R.; Drory, Niv; Gelfand, Joseph D.; Knapen, Johan H.; Maiolino, Roberto; Malanushenko, Olena; Masters, Karen L.; Merrifield, Michael R.; Pace, Zach; Pan, Kaike; Riffel, Rogemar A.; Roman-Lopes, Alexandre; Rujopakarn, Wiphu; Schneider, Donald P.; Stott, John P.; Thomas, Daniel; Weijmans, Anne-Marie

SDSS-IV MaNGA IFS Galaxy Survey — Survey Design, Execution, and Initial Data Quality, 2016AJ, 152, 197Y, Yan, Renbin; Bundy, Kevin; Law, David R.; Bershady, Matthew A.; Andrews, Brett; Cherinka, Brian; Diamond-Stanic, Aleksandar M.; Drory, Niv; MacDonald, Nicholas; Snchez-Gallego, Jos R.; Thomas, Daniel; Wake, David A.; Weijmans, Anne-Marie; Westfall, Kyle B.; Zhang, Kai; Aragn-Salamanca, Alfonso; Belfiore, Francesco; Bizyaev, Dmitry; Blanc, Guillermo A.; Blanton, Michael R.; Brownstein, Joel; Cappellari, Michael; D'Souza, Richard; Emsellem, Eric; Fu, Hai; Gaulme, Patrick; Graham, Mark T.; Goddard, Daniel; Gunn, James E.; Harding, Paul; Jones, Amy; Kinemuchi, Karen; Li, Cheng; Li, Hongyu; Maiolino, Roberto; Mao, Shude; Maraston, Claudia; Masters, Karen; Merrifield, Michael R.; Oravetz, Daniel; Pan, Kaike; Parejko, John K.; Sanchez, Sebastian F.; Schlegel, David; Simmons, Audrey; Thanjavur, Karun; Tinker, Jeremy; Tremonti, Christy; van den Bosch, Remco; Zheng, Zheng

SDSS-IV/MaNGA: Spectrophotometric Calibration Technique, 2016 AJ, 151, 8, Yan, Renbin; Tremonti, Christy; Bershady, Matthew A.; Law, David R.; Schlegel, David J.; Bundy, Kevin; Drory, Niv; MacDonald, Nicholas; Bizyaev, Dmitry; Blanc, Guillermo A.; Blanton, Michael R.; Cherinka, Brian; Eigenbrot, Arthur; Gunn, James E.; Harding, Paul; Hogg, David W.; Snchez-Gallego, Jos R.; Snchez, Sebastian F.; Wake, David A.; Weijmans, Anne-Marie; Xiao, Ting; Zhang, Kai

The Data Reduction Pipeline for the SDSS-IV MaNGA IFU Galaxy Survey, 2016 AJ, 152, 83, Law, David R.; Cherinka, Brian; Yan, Renbin; Andrews, Brett H.; Bershady, Matthew A.; Bizyaev, Dmitry; Blanc, Guillermo A.; Blanton, Michael R.; Bolton, Adam S.; Brownstein, Joel R.; Bundy, Kevin; Chen, Yanmei; Drory, Niv; D'Souza, Richard; Fu, Hai; Jones, Amy; Kauffmann, Guinevere; MacDonald, Nicholas; Masters, Karen L.; Newman, Jeffrey A.; Parejko, John K.; Snchez-Gallego, Jos R.; Snchez, Sebastian F.; Schlegel, David J.; Thomas, Daniel; Wake, David A.; Weijmans, Anne-Marie; Westfall, Kyle B.; Zhang, Kai

The Data Reduction Pipeline for the SDSS-IV MaNGA IFU Galaxy Survey, 2016 AJ, 152, 83, Law, David R.; Cherinka, Brian; Yan, Renbin; Andrews, Brett H.; Bershady, Matthew A.; Bizyaev, Dmitry; Blanc, Guillermo A.; Blanton, Michael R.; Bolton, Adam S.; Brownstein, Joel R.; Bundy, Kevin; Chen, Yanmei; Drory, Niv; D'Souza, Richard; Fu, Hai; Jones, Amy; Kauffmann, Guinevere; MacDonald, Nicholas; Masters, Karen L.; Newman, Jeffrey A.; Parejko, John K.; Snchez-Gallego, Jos R.; Snchez, Sebastian F.; Schlegel, David J.; Thomas, Daniel; Wake, David A.; Weijmans, Anne-Marie; Westfall, Kyle B.; Zhang, Kai

SDSS-IV/MaNGA: Spectrophotometric Calibration Technique, 2015 AJ, 150, 19, Law, David R.; Yan, Renbin; Bershady, Matthew A.; Bundy, Kevin; Cherinka, Brian; Drory, Niv; MacDonald, Nicholas; Snchez-Gallego, Jos R.; Wake, David A.; Weijmans, Anne-Marie; Blanton, Michael R.; Klaene, Mark A.; Moran, Sean M.; Sanchez, Sebastian F.; Zhang, Kai

Observing Strategy for the SDSS-IV/MaNGA IFU Galaxy Survey, 2015 MNRAS, 449, 867, Law, David R.; Yan, Renbin; Bershady, Matthew A.; Bundy, Kevin; Cherinka, Brian; Drory, Niv; MacDonald, Nicholas; Snchez-Gallego, Jos R.; Wake, David A.; Weijmans, Anne-Marie; Blanton, Michael R.; Klaene, Mark A.; Moran, Sean M.; Sanchez, Sebastian F.; Zhang, Kai

P-MaNGA Galaxies: emission-lines properties - gas ionization and chemical abundances from prototype observations, 2015 MNRAS, 449, 867, Belfiore, F.; Maiolino, R.; Bundy, K.; Thomas, D.; Maraston, C.; Wilkinson, D.; Snchez, S. F.; Bershady, M.; Blanc, G. A.; Bothwell, M.; Cales, S. L.; Coccato, L.; Drory, N.; Emsellem, E.; Fu, H.; Gelfand, J.; Law, D.; Masters, K.; Parejko, J.; Tremonti, C.; Wake, D.; Weijmans, A.; Yan, R.; Xiao, T.; Zhang, K.; Zheng, T.; Bizyaev, D.; Kinemuchi, K.; Oravetz, D.; Simmons, A

P-MaNGA: full spectral fitting and stellar population maps from prototype observations, 2015 MNRAS, 449, 328, Wilkinson, David M.; Maraston, Claudia; Thomas, Daniel; Coccato, Lodovico; Tojeiro, Rita; Cappellari, Michele; Belfiore, Francesco; Bershady, Matthew; Blanton, Mike; Bundy, Kevin; Cales, Sabrina; Cherinka, Brian; Drory, Niv; Emsellem, Eric; Fu, Hai; Law, David; Li, Cheng; Maiolino, Roberto; Masters, Karen; Tremonti, Christy; Wake, David; Wang, Enci; Weijmans, Anne-Marie; Xiao, Ting; Yan, Renbin; Zhang, Kai; Bizyaev, Dmitry; Brinkmann, Jonathan; Kinemuchi, Karen; Malanushenko, Elena; Malanushenko, Viktor; Oravetz, Daniel; Pan, Kaike; Simmons, Audrey

P-MaNGA: Gradients in Recent Star Formation Histories as Diagnostics for Galaxy Growth and Death, 2015 ApJ, 804, 125, Li, Cheng; Wang, Enci; Lin, Lin; Bershady, Matthew A.; Bundy, Kevin; Tremonti, Christy A.; Xiao, Ting; Yan, Renbin; Bizyaev, Dmitry; Blanton, Michael; Cales, Sabrina; Cherinka, Brian; Cheung, Edmond; Drory, Niv; Emsellem, Eric; Fu, Hai; Gelfand, Joseph; Law, David R.; Lin, Lihwai; MacDonald, Nick; Maraston, Claudia; Masters, Karen L.; Merrifield, Michael R.; Pan, Kaike; Snchez, S. F.; Schneider, Donald P.; Thomas, Daniel; Wake, David; Wang, Lixin; Weijmans, Anne-Marie; Wilkinson, David; Yoachim, Peter; Zhang, Kai; Zheng, Tiantian

Overview of the SDSS-IV MaNGA Survey: Mapping nearby Galaxies at Apache Point Observatory, 2015 ApJ, 798, 7, Bundy, Kevin; Bershady, Matthew A.; Law, David R.; Yan, Renbin; Drory, Niv; MacDonald, Nicholas; Wake, David A.; Cherinka, Brian; Snchez-Gallego, Jos R.; Weijmans, Anne-Marie; Thomas, Daniel; Tremonti, Christy; Masters, Karen; Coccato, Lodovico; Diamond-Stanic, Aleksandar M.; Aragn-Salamanca, Alfonso; Avila-Reese, Vladimir; Badenes, Carles; Falcn-Barroso, Jsus; Belfiore, Francesco; Bizyaev, Dmitry; Blanc, Guillermo A.; Bland-Hawthorn, Joss; Blanton, Michael R.; Brownstein, Joel R.; Byler, Nell; Cappellari, Michele; Conroy, Charlie; Dutton, Aaron A.; Emsellem, Eric; Etherington, James; Frinchaboy, Peter M.; Fu, Hai; Gunn, James E.; Harding, Paul; Johnston, Evelyn J.; Kauffmann, Guinevere; Kinemuchi, Karen; Klaene, Mark A.; Knapen, Johan H.; Leauthaud, Alexie; Li, Cheng; Lin, Lihwai; Maiolino, Roberto; Malanushenko, Viktor; Malanushenko, Elena; Mao, Shude; Maraston, Claudia; McDermid, Richard M.; Merrifield, Michael R.; Nichol, Robert C.; Oravetz, Daniel; Pan, Kaike; Parejko, John K.; Sanchez, Sebastian F.; Schlegel, David; Simmons, Audrey; Steele, Oliver; Steinmetz, Matthias; Thanjavur, Karun; Thompson, Benjamin A.; Tinker, Jeremy L.; van den Bosch, Remco C. E.; Westfall, Kyle B.; Wilkinson, David; Wright, Shelley; Xiao, Ting; Zhang, Kai

Outflow and hot dust emission in high redshift quasars, 2013 ApJ, 776, 15, Huiyuan Wang, Feijun Xing, Kai Zhang, Tinggui Wang, Hongyan Zhou, Shaohua Zhang

On the nature of X-ray "unobscured" Seyfert 2 galaxies, Science China Physics, Mechanics and Astronomy, Volume 55, Issue 12, Ying Tan, Junxian Wang, Kai Zhang

Estimating Black Hole Masses in Active Galactic Nuclei Using the MgII 2800 Emission Line, 2009 ApJ, 706, 1-13, Jian-Guo Wang, Xiao-Bo Dong, Ting-Gui Wang, Luis C. Ho, Weimin

Yuan, Huiyuan Wang, Kai Zhang, Shaohua Zhang, Hongyan Zhou

The Correlation Between X-ray and UV Properties of BAL QSOs, 2009 ApJ, 690, 1006, Lulu Fan, Huiyuan Wang, Tinggui Wang, Junxian Wang, Xiao-bo Dong, Kai Zhang, Fuzhen Cheng

Broad-line Balmer decrements in blue active galactic nuclei, 2008 MNRAS, 383, 581, Xiaobo Dong, Tinggui Wang, Jianguo Wang, Weimin Yuan, Hongyan Zhou, Haifeng Dai, **Kai Zhang**

Observing Experience Lijiang 2.4m telescope, 5 nights.

nce Apache Point Observatory, 2.5 meter telescope, 5 nights.

Blanco Telescope (remotely at NOAO), 2 nights.

Mayall 4-meter telescope, 3 nights.

Grants

China Postdoctoral Grant, 50K RMB ($\sim 8K$ USD).

Honors & Awards

Referee for ApJ, MNRAS, A&A and RAA

SDSS-IV Architect April, 2016.

Zhu Li Yue Hua Scholarship for excellent graduate student. May, 2012.

CASC Scholarship for excellent graduate student. Oct, 2008.

Conferences and Talks

DESI Lunch Talk

Feb 20, 2019, Berkeley, CA, USA.

Title of Talk: 'DESI Fiber Positioner Anticollision: Algorithm and Performance"

DESI Lunch Talk

Jan 17, 2018, Berkeley, CA, USA.

Title of Talk: 'DESI Fiber Positioner Performance"

Seminar at University of Kentucky

Oct 6, 2016, Lexington, KY, USA.

Title of Talk: 'The Impact of Diffuse Ionized Gas on Emission-line Ratios, Interpretation of Diagnostic Diagrams, and Gas Metallicity Measurements"

Seminar at Tsinghua University

Sep 28, 2016, Beijingi, China.

Title of Talk: 'The Impact of Diffuse Ionized Gas on Emission-line Ratios, Interpretation of Diagnostic Diagrams, and Gas Metallicity Measurements"

Seminar at Nanjing University

Sep 12, 2016, Nanjing, Jiangsu, China.

Title of Talk: 'The Impact of Diffuse Ionized Gas on Emission-line Ratios, Interpretation of Diagnostic Diagrams, and Gas Metallicity Measurements"

Seminar at University of Science and Technology of China

Sep 7, 2016, Hefei, Anhui, China.

Title of Talk: 'The Impact of Diffuse Ionized Gas on Emission-line Ratios, Interpretation of Diagnostic Diagrams, and Gas Metallicity Measurements"

2016 SDSS-IV Collaboration Meeting

June 26-30, 2016, Madison, Wisconsin, USA.

Title of Talk: 'The Impact of Diffuse Ionized Gas on Emission-line Ratios, Interpretation of Diagnostic Diagrams, and Gas Metallicity Measurements"

The Interplay Between Local and Global Processes in Galaxies

11th-15th April, 2016, Cozumel, Mexico.

Title of Poster and lightening talk: 'The Impact of Diffuse Ionized Gas on Emission-line Ratios, Interpretation of Diagnostic Diagrams, and Gas Metallicity Measurements'

227th AAS Meeting

Jan 4th-8th, 2016, Kissimmee, Florida, USA.

Title of Talk: 'The Impact of Diffuse Ionized Gas on Emission-line Ratios and Gas Metallicity Measurements"

MaNGA Collaboration Meeting

30 Mar-2 Apr, 2015, Lexington, KY, USA.

Title of Talk: 'Beam Smearing Effect for MaNGA survey"

2015 SDSS-IV Collaboration Meeting

July 27-29, 2015, Deer Valley, Utah, USA.

Dissecting Galaxies with 2D Wide-field Spectroscopy

March.25-29, 2013, Lijiang, Yunnan, China.

Title of Talk: "A New Classification Diagram for High Redshift Emission Line Galaxies"

Cross-Strait Astrophysics Symposium

December.6-8, 2013, Xiamen, Fujian, China.

Title of Talk: "The Ionized Gas Kinematics of SDSS Galaxies"

Workshop on WISE

April.10, 2011, Shanghai Observatory, China.

5th Annual Conference of Black Hole Astrophysics

April. 27, 2010 - April. 27, 2010, Xiamen, Fujian, China.

Title of Talk: "[OIII] emission in AGN"

Conference for Starburst-AGN Connection.

Oct. 27, 2008 - Oct. 31, 2008, Shanghai, China.

Title of Poster: "Exploring the Partially-obscured BLR and Partially-blocked NLR"

Annual Meeting of the Chinese Astronomical Society.

Oct. 16, 2007 - Oct. 19, 2007, Guangzhou, China. Title of Talk: "Partially-Obscured QSO in SDSS"

Languages English, Mandarin Chinese

Mentoring

Jun, 2017 - Sep, 2017

Supervising undergraduate student Gradey Wong from UC Berkeley:

Jun, 2015 - Aug, 2015

Supervising undergraduate student **Dadbeh Shaddel from Berea College:** Optimizing SDSS 2.5 meter telescope focus.

Teaching

Sept, 2011 - Jan, 2012

Experience

Teaching Assistant for graduate course: Data analysis and reduction.

Sept, 2008 - Jan, 2009

Teaching Assistant for undergraduate course: Mechanics.

Sept, 2007 - Jan, 2008

Teaching Assistant for undergraduate course: *Electro-magnetics*.

Excellent: Python, IDL, Javascript
Good: C,C++, LATEX.
Basic: Fortran

Skills