

Dr. Feiqin Xie

Texas A&M University-Corpus Christi
Science & Engineering, Physical & Environmental Sciences
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Education

PhD, University of Arizona, 2006.

MS, Peking University, 2001.

BS, Lanzhou University, 1998.

Professional Employment

Assistant Professor, Texas A&M University-Corpus Christi. (September 2012 - Present).

Affiliated Research Scientist, Jet Propulsion Laboratory, California Institute of Technology. (September 2012 - December 2015).

Affiliated research scientist at Jet Propulsion Laboratory.

Assistant Researcher Step 2, University of California Los Angeles. (October 2009 - September 2012).

Carry out research in atmospheric sciences by using various satellite remote sensing observations and model data.

Postdoctoral Researcher, Jet Propulsion Laboratory, California Institute of Technology. (October 2008 - September 2009).

Carry out research in atmospheric sciences by using various satellite remote sensing observations and model data.

Postdoctoral Researcher, Purdue University. (May 2006 - September 2008).

Carry out research in atmospheric sciences by using airborne and spaceborne GPS remote sensing observations.

Professional Memberships

Texas OneGulf Network of Experts
NASA MODIS Science Team
International Radio Occultation Working Group
Sigma-Xi, The Scientific Research Society
American Meteorological Society
American Geophysical Union
NASA Remote Sensing Theory Science Team

TEACHING

Teaching Experience

CMSS 6310, FUNDAMENTALS OF REMOTE SENSING
CMSS 6590, ADVANCED TOPICS: Fundamentals of Remote Sensing
CMSS 6996, RESEARCH
CMSS 6998, DISSERTATION RESEARCH

ESCI 4335, CLIMATE & CLIMATE VARIABILITY
ESCI 4490, SELECTED TOPICS: Air Pollution and the Clean Air Act
ESCI 5392, THESIS I: THESIS PROPOSAL
ESCI 5393, THESIS II: THESIS RESEARCH
ESCI 5394, THESIS III: THESIS SUBMISSION
ESCI 5490, ADVANCED TOPICS: Fundamentals of Remote Sensing
ESCI 5596, DIS: Independent Study in Physical Meteorology
ESCI 5940, PROJECT RESEARCH
ESCI 6590, ADVANCE TOPICS: Elements of Air Pollution

Teaching Awards and Honors

Graduate Scholarship, University of Arizona, Tucson, Arizona. (2005).

SCHOLARLY AND CREATIVE ACTIVITIES

Publications

Refereed

Journal Articles

Winning, T. E., Chen, Y.-L., Xie, F. (2016). Estimation of the Marine Boundary Layer Height over the Central North Pacific Using GPS Radio Occultation. *Atmospheric Research*.

Adhikari, L., Xie, F., Haase, J. S. (2016). Application of the full spectrum inversion algorithm to simulated airborne GPS radio occultation signals. *Atmos. Meas. Tech.* <http://www.atmos-meas-tech.net/9/5077/2016/>

Xie, F., Wu, D. L., Ao, C. O., Mannucci, A. J., Kursinski, E. R. (2012). Advances and limitations of atmospheric boundary layer observations with GPS occultation over southeast Pacific Ocean. *Atmos. Chem. Phys.*, 12(12), 903-918. www.atmos-chem-phys.net/12/903/2012/

Ao, C. O., Waliser, D. E., Chan, S. K., Li, J. L., Tian, B., Xie, F., Mannucci, A. J. (2012). Planetary boundary layer depths from GPS radio occultation profiles. *Journal of Geophysical Research*, 117, D16117.

Zhang, C., Wang, Y., Lauer, A., Hamilton, K., Xie, F. (2012). Cloud base and top heights in the Hawaiian region determined with satellite and ground-based measurements. *Geophysical Research Letters*, 39(15), L15706 (1-6).

Xie, F., Wu, D. L., Ao, C. O., Mannucci, A. J. (2010). Atmospheric diurnal variations observed with GPS radio occultation soundings. *Atmospheric Chemistry and Physics*, 10(1-11), 1-11. www.atmos-chem-phys.net/10/6889/2010/

Muradyan, P., Haase, J. S., Xie, F., Garrison, J. L., Voo, J. (2010). GPS/INS navigation precision and its effect on airborne radio occultation retrieval accuracy. *GPS Solutions*, 15(3), 207-218.

Xie, F., Wu, D. L., Ao, C. O., Kursinski, E. R., Syndergaard, S., Mannucci, A. J. (2010). Super-refraction effects on GPS radio occultation refractivity in marine boundary layers. *Geophys. Res. Lett.*, 37(L11805), 1-6.

Xie, F., Haase, J. S., Sydergaard, S. (2008). Profiling the atmosphere using the airborne GPS radio occultation technique: a sensitivity study. *IEEE Transactions on Geoscience and Remote Sensing*, 46(11), 3424 - 3435.

Xie, F., Syndergaard, S., Kursinski, E. R., Herman, B. M. (2006). An approach for retrieving marine boundary layer refractivity from GPS occultation data in the presence of super-refraction. *J. Atmos. Oceanic Technol.*, 23, 1629-1644.

Cai, X., Xie, F., Chen, J. (2002). Large-eddy Simulation for unstable surface layers. *Acta Scientiarum Naturalium Universitatis Pekinensis*, 38(5), 698-704.

Li, Y., Cai, X., Xie, F. (2002). Recent Variations of Total Ozone Over East Asia. *Environmental Science*, 23, 103-105.

Xie, F., Cai, X. (2000). Spatial and temporal variation of total ozone over East Asia and Europe: an inter-comparison. *J. Environ. Sci. Health*, 35(10), 1923-1930.

Xie, F., Cai, X. (2000). Spatial and Temporal Variation of Total Ozone Over East-Asia. *Acta Scientiae Circumstantiae*, 20(5), 513-517.

Non-Refereed

Conference Proceedings

Lulich, T., Garrison, J., Haase, J., Yang, Y.-M., Woo, J., Xie, F., Muradyan, P. (2010). *Open Loop Tracking of Radio Occultation Signals from an Airborne Platform* (pp. pp. 1049-1060). Portland, OR: Proceedings of the 23rd International Technical Meeting of The Satellite Division of the Institute of Navigation.

Garrison, J., Water, M., Haase, J., Lulich, T., Xie, F. (2007). *Development and testing of the GISMOS instrument*. Barcelona: IEEE International Geoscience and Remote Sensing Symposium.

Technical Reports

Xie, F. (2016). *ROPP-9.0 beta testing – Radio Occultation Processing Package (ROPP) planetary boundary layer height (PBLH) product evaluation*. Copenhagen: ROM (Radio Occultation Meteorology) Satellite Application Facilities (SAF).
http://www.romsaf.org/Publications/reports/romsaf_vs30_rep_v10.pdf

Xie, F. (2014). *Investigation of methods for the determination of the PBL height from RO observations using ECMWF reanalysis data*. Copenhagen: ROM (Radio Occultation Meteorology) Satellite Application Facilities (SAF). www.romsaf.org/visiting_scientist.php

Presentations

Xie, F., Kubar, T., Adhikari, L., Winning, T. E., Ao, C. O., "Cloudy Planetary Boundary Layer Study with Satellite, Climate Model, and ERA-I Reanalysis Data over the Subtropical Eastern Pacific," AGU Fall Meeting, AGU, San Francisco, CA. (December 15, 2016).

Xie, F., Adhikari, L., Wu, D., Wood, R., "Marine Boundary Layer Lapse Rate and Cloud-top-height Observed from MODIS and CALIPSO over Subtropical Eastern Pacific," MODIS/VIIRS Science Team Meeting, NASA MODIS/VIIRS Science Team, Silver Spring, MD. (June 6, 2016).

Xue, M. (Author & Presenter), Chen, S.-h. (Author), Haase, J. (Author), Murphy, B. (Author), Wang, K.-N. (Author), Garrison, J. L. (Author), Adhikari, L. (Author), Xie, F. (Author), Chen, S.-y. (Author), Huang, C.-Y. (Author), "A Study on Airborne Radio Occultations and their Impact on Severe Weather Prediction," 3rd International Conference on GPS RO (ICGPSRO), Taiwan National Space Organization (NSPO) and US University Corporation for Atmospheric Research (UCAR), Taipei, Taiwan. (March 9, 2016).

Murphy, B. (Author & Presenter), Haase, J. S. (Author), Wang, K.-N. (Author), Garrison, J. L. (Author), Adhikari, L. (Author), Xie, F. (Author), "Mid-Tropospheric moisture variations during the development of hurricane Karl as resolved by airborne GPS radio occultation with open loop tracking," AGU Fall Meeting, American Geophysical Union, San Francisco, CA. (December 18, 2015).

Adhikari, L. (Author & Presenter), Xie, F. (Author), Ao, C. O. (Author), Winning, T. (Author), "Spatial and Temporal Variation of Boundary Layer Lapse Rate and Cloud-top-height Observed from MODIS, CALIPSO and AMSR-E over Eastern Pacific," AGU Fall Meeting, American Geophysical Union, San Francisco, CA. (December 18, 2015).

Xie, F. (Author & Presenter), Ao, C. O. (Author), Adhikari, L. (Author), Yu, X. (Author), "Ducting and Boundary Layer Refractivity Bias Correction in GPS Radio Occultation Soundings with MODIS over the Subtropical Eastern Pacific Ocean," American Geophysical Union Fall Meeting, American Geophysical Union, San Francisco, CA. (December 17, 2015).

Xie, F. (Author & Presenter), Syndergaard, S. (Author), von Engel, A. (Author), "What is the Planetary Boundary Layer Height in a Global Perspective?," American Geophysical Union (AGU) Fall Meeting, San Francisco, CA. (December 15, 2014).

Xie, F. (Author & Presenter), Wu, D. L. (Author), Wood, R. (Author), "Planetary Boundary Layer Height and Cloud-top-height from COSMIC and CALIPSO over Eastern Pacific Ocean," Eighth FORMOSAT-3/COSMIC Data Users' Workshop, UCAR, NSF, Boulder, Colorado. (October 2, 2014).

Adhikari, L. (Author & Presenter), Xie, F. (Author), Murphy, B. (Author), Haase, J. (Author), Muradyan, P. (Author), Wang, K.-N. (Author), Garrison, J. L. (Author), "Application of Full Spectrum Inversion to Airborne GPS Radio Occultation Measurements," Eighth FORMOSAT-3/COSMIC Data Users' Workshop, Boulder, Colorado. (October 1, 2014).

Winning, T. L. (Author & Presenter), Chen, Y.-L. (Author), Hitzl, D. (Author), Hsiao, F. (Author), Huang, Y. F. (Author), Xie, F. (Author), "Detection of the Inversion Layer over the central North Pacific Ocean using GPS Radio Occultation," Eighth FORMOSAT-3/COSMIC Data Users' Workshop, UCAR, NSF, Boulder, Colorado. (September 30, 2014).

Xie, F. (Author & Presenter), "Planetary boundary layer studies with GPS-RO," Fifth ECMWF/EUMETSAT ROM-SAF workshop on Applications of GPS radio occultation measurements, ECMWF & EUMETSAT, Reading, UK. (June 17, 2014).

Xie, F. (Author & Presenter), "Satellite Sensing of Cloudy Boundary Layer: from Marine Stratus to Trade Cumulus," Seminar Series of TAMU-Kingsville Environmental Engineering, Texas A&M University-Kingsville, Kingsville. (March 26, 2014).

Adhikari, L. (Author & Presenter), Murphy, B. (Author), Xie, F. (Author), Haase, J. (Author), Muradyan, P. (Author), Wang, K.-N. (Author), Garrison, J. L. (Author), "High-resolution Profiling of the Lower Troposphere from Airborne GPS Radio Occultation," American Geophysical Union (AGU) Fall Meeting 2013, San Francisco, CA. (December 13, 2013).

Xie, F. (Author & Presenter), Ao, C. O. (Author), Mannucci, A. J. (Author), Turk, F. J. (Author), Syndergaard, S. (Author), Kursinski, E. R. (Author), Wu, D. L. (Author), Adhikari, L. (Author), "Profiling the Cloudy Boundary Layer from GPS Radio Occultation and MODIS," American Geophysical Union (AGU) Fall Meeting 2013, San Francisco, CA. (December 12, 2013).

Xie, F. (Author & Presenter), "From Marine Stratus to Trade Cumulus: Cloudy Boundary Layer from Satellite Observation and Global model analysis," Invited Seminar of Danish Meteorological Institute, Danish Meteorological Institute, Copenhagen, Denmark. (August 2, 2013).

Ao, C. O. (Author & Presenter), Xie, F. (Author), Meehan, T. K. (Author), Mannucci, A. J. (Author), Matheou, G. (Author), "On the Resolution and Noise Characteristics of GPS Radio Occultation Retrievals: A Simulation Study," Sixth FORMOSAT-3/COSMIC Data Users' Workshop, UCAR, NSF, Boulder, Colorado. (October 30, 2012).

Xie, F. (Author & Presenter), Ao, C. O. (Author), Turk, F. J. (Author), Kursinski, E. R. (Author), Mannucci, A. J. (Author), Wu, D. L. (Author), "Reconstructing the GPS Refractivity Profiles inside the Atmospheric Boundary Layer with MODIS Cloud-top-temperature over Subtropical Eastern Oceans," Sixth FORMOSAT-3/COSMIC Data Users' Workshop, UCAR, NSF, Boulder, Colorado. (October 30, 2012).

Xie, F. (Author & Presenter), Haase, J. S. (Author), Muradyan, P. (Author), "Airborne GNSS radio occultation retrieval with a radio-holographic method," International Radio Occultation Group (IROWG) 2nd Workshop, UCAR, NSF, EUMETSAT, Estes Park, Colorado. (March 28, 2012).

Xie, F. (Author & Presenter), Wu, D. L. (Author), Ao, C. O. (Author), Mannucci, A. J. (Author), Kursinski, E. R. (Author), "Evaluating the Marine Atmospheric Boundary Layer in Reanalyses over Subtropical Eastern Oceans with in-situ radiosondes," International Radio Occultation Group (IROWG) 2nd Workshop, UCAR, NSF, EUMETSAT, Estes Park, Colorado. (March 28, 2012).

Ao, C. O. (Author & Presenter), Iijima, B. A. (Author), Mannucci, A. J. (Author), Meehan, T. K. (Author), Xie, F. (Author), "Outstanding Issues Concerning GPS RO Measurements in the Lower Troposphere," International Radio Occultation Group (IROWG) 2nd Workshop, UCAR, NSF, EUMETSAT, Estes Park, Colorado. (March 28, 2012).

Muradyan, P. (Author), Haase, J. S. (Author), Acikoz, U. (Author), Garrison, J. L. (Author), Xie, F. (Author & Presenter), "Profiling the atmosphere with the airborne RO technique using GPS signals recorded in open-loop mode," International Radio Occultation Group (IROWG) 2nd Workshop, UCAR, NSF, EUMETSAT, Boulder, Colorado. (March 28, 2012).

Xie, F. (Author & Presenter), Wu, D. L. (Author), Li, J. F. (Author), Ao, C. O. (Author), Mannucci, A. J. (Author), Kursinski, E. R. (Author), Jiang, X. (Author), "Diagnostic Evaluation of Atmospheric Boundary Layer Heights in Global Analyses and Reanalyses over Subtropical Eastern Oceans with COSMIC Radio Occultation and Radiosonde Sounding Measurements," American Geophysical Union (AGU) Fall Meeting 2011, San Francisco, CA. (December 5, 2011).

Xie, F. (Author & Presenter), Wu, D. L. (Author), Ao, C. O. (Author), Mannucci, A. J. (Author), Kursinski, E. R. (Author), "VOCALS/Southeast Pacific Science: Cloudy atmospheric boundary layer observations over subtropical eastern oceans from COSMIC GPS occultation," World Climate Research Programme (WCRP) Open Science Conference, World Climate Research Programme, Denver, CO. (October 24, 2011).

Kursinski, E. R. (Author), Xie, F. (Author & Presenter), "Improving the Impact of GPS RO in the Troposphere," The 9th NOAA (National Oceanic and Atmospheric Administration) JCSDA (Joint Center for Satellite Data Assimilation) Workshop on Satellite Data Assimilation, National Oceanic and Atmospheric Administration (NOAA), University of Maryland, College Park, Maryland. (May 24, 2011).

Xie, F. (Author), Haase, J. S. (Author), Muradyan, P. (Author), Murphy, B. (Author & Presenter), Johnson, P. (Author), "The Use of Airborne GPS radio occultation in the Pre-Depression Investigation of Cloud-systems in the Tropics (PREDICT) experiment," Fifth FORMOSAT-3 / COSMIC Data Users Workshop and International Conference on GPS Radio Occultation, UCAR, NSF, Taiwan NSPO, Taipei, Taiwan. (April 13, 2011).

Xie, F. (Author & Presenter), Wu, D. L. (Author), Ao, C. O. (Author), Mannucci, A. J. (Author), Kursinski, E. R. (Author), "Characteristics of atmospheric boundary layer structures over subtropical stratocumulus regions," American Geophysical Union (AGU) Fall Meeting 2010, San Francisco, CA. (December 13, 2010).

Ao, C. O. (Author), Xie, F. (Author & Presenter), Zhang, Y. (Author), Seidel, D. J. (Author), Kay, J. E. (Author), Deser, C. (Author), "High-Latitude Inversion Layers from GPS Radio Occultation Observations," American Geophysical Union (AGU) Fall Meeting 2010, San Francisco, CA. (December 13, 2010).

Xie, F. (Author & Presenter), Wu, D. L. (Author), Ao, C. O. (Author), Kursinski, E. R. (Author), Mannucci, A. J. (Author), "Stratocumulus-topped atmospheric boundary layers: GPS RO observations vs. ECMWF analysis," 19th Symposium on Boundary Layers and Turbulence, American Meteorological Society, Keystone, Colorado. (August 2, 2010).

Xie, F. (Author & Presenter), Wu, D. L. (Author), Ao, C. O. (Author), Mannucci, A. J. (Author), "Observing the diurnal cycle with GPS/COSMIC occultations," 90th American Meteorological Society (AMS) Annual Meeting, American Meteorological Society, Keystone, Colorado. (January 17, 2010).

Xie, F. (Author & Presenter), Wu, D. L. (Author), Ao, C. O. (Author), Kursinski, E. R. (Author), Mannucci, A. J. (Author), Syndergaard, S. (Author), "Profiling Stratocumulus-topped Boundary Layers with GPS Radio Occultation," American Geophysical Union (AGU) Fall Meeting 2010, American Geophysical Union, AMS, San Francisco, CA. (December 14, 2009).

Xie, F. (Author & Presenter), Wu, D. L. (Author), Ao, C. O. (Author), Mannucci, A. J. (Author), "Atmospheric diurnal cycle observed from GPS radio occultation soundings," Fourth FORMOSAT-3/COSMIC Data Users Workshop, UCAR, NSF, Boulder, Colorado. (October 27, 2009).

Xie, F. (Author & Presenter), Wu, D. L. (Author), Ao, C. O. (Author), Mannucci, A. J. (Author), Iijima, B. (Author), Pestana, M. (Author), "Atmospheric diurnal and semi-diurnal variations observed from GPS radio occultation soundings," Global Navigation Satellite System Radio Occultation Workshop, NASA, JPL, Pasadena, California. (April 7, 2009).

Teixeira, J. (Author & Presenter), Mannucci, A. J. (Author), Ao, C. O. (Author), Wu, D. L. (Author), Xie, F. (Author), "Atmospheric diurnal and semi-diurnal variations observed from GPS radio occultation soundings," Global Navigation Satellite System Radio Occultation Workshop, NASA, JPL, Pasadena, California. (April 7, 2009).

Haase, J. S. (Author & Presenter), Xie, F. (Author), Muradyan, P. (Author), Garrison, J. L. (Author), Lulich, T. (Author), Voo, J. (Author), Nievinski, F. G. (Author), Larson, K. (Author), "New Atmospheric Observations from the Airborne GNSS Instrument System for Multistatic and Occultation Sensing (GISMOS)," American Geophysical Union (AGU) Fall Meeting 2008, American Geophysical Union, AMS, San Francisco, CA. (December 15, 2008).

Xie, F. (Author & Presenter), Haase, J. S. (Author), Lulich, T. (Author), Muradyan, P. (Author), Garrison, J. L. (Author), Syndergaard, S. (Author), Calais, E. (Author), "Profiling the Atmosphere

with an Airborne GPS Receiver System," 88th American Meteorological Society (AMS) Annual Meeting, American Meteorological Society, New Orleans, Louisiana. (January 20, 2008).

Xie, F. (Author & Presenter), Haase, J. S. (Author), Syndergaard, S. (Author), Lulich, T. (Author), Muradyan, P. (Author), Garrison, J. L. (Author), Calais, E. (Author), "Error Estimation of Airborne GPS Radio Occultation Measurements: Simulation Analysis," Second FORMOSAT-3/COSMIC Data Users Workshop, UCAR, NSF, Taiwan NSPO, Boulder, Colorado. (October 22, 2007).

Garrison, J. L. (Author & Presenter), Walker, M. (Author), Haase, J. S. (Author), Lulich, T. (Author), Xie, F. (Author), "Development and testing of the GISMOS instrument," IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Barcelona, Spain. (July 23, 2007).

Kursinski, E. R. (Author & Presenter), Xie, F. (Author), Ao, C. O. (Author), "Issues Regarding GPS RO-Derived Tropospheric Humidity," First FORMOSAT-3/COSMIC Data Users Workshop, Boulder, Colorado, October 16-18, 2006, UCAR, NSF, Taiwan NSPO, Boulder, Colorado. (October 16, 2006).

Xie, F. (Author), "Characterizing the Earth's Atmosphere Using GPS Radio Occultation Measurements: Opportunities and Challenges," Purdue University Earth and Atmospheric Science Departmental Seminar, Purdue University, Boulder, Colorado. (August 31, 2006).

Xie, F. (Author & Presenter), Syndergaard, S. (Author), Kursinski, E. R. (Author), Ao, C. O. (Author), Herman, B. (Author), "An Approach for Retrieving Marine Boundary Layer Refractivity From GPS Occultation Data," American Geophysical Union (AGU) Fall Meeting 2005, American Geophysical Union, AMS, San Francisco, CA. (December 5, 2005).

Xie, F. (Author & Presenter), Syndergaard, S. (Author), Kursinski, E. R. (Author), Herman, B. (Author), "Reconstruction of the Marine Boundary Layer Refractivity in the Presence of Super-refraction," Second GPS Radio Occultation Data Users' Workshop, UCAR, NSF, Taiwan NSPO, Lansdowne, Virginia. (August 22, 2005).

Contracts, Grants and Sponsored Research

Contract

Xie, Feiqin (Co-Principal), Syndergaard, Stig (Principal), "Investigation of methods for the determination of the PBL height from RO observations using ECMWF re-analysis data," Sponsored by EUMETSAT Radio Occultation Meteorology (ROM) Satellite Application Facilities (SAF), Other, \$20,364.00. (July 5, 2013 - December 14, 2014).

Grant

Xie, Feiqin (Co-Principal), Ao, Chi O (Principal), "Vertical Profiling of the Planetary Boundary Layer with Current and Future GNSS Radio Occultation Measurements," Sponsored by NASA, Federal, \$163,866.00. (June 1, 2016 - September 30, 2019).

Bird, Christopher (Co-Principal), Li, Longzhuang (Principal), Xie, Feiqin (Co-Principal), "ChrisNOTE**(dup??)MRI: Acquisition of a High Performance Computing Cluster...", Sponsored by NSF, Federal, \$400,000.00. (2014 - 2017).

Li, Longzhuang (Principal), Bird, Christopher (Co-Principal), Chen, Ruizhi (Co-Principal), Su, Lihong (Co-Principal), Xie, Feiqin (Co-Principal), "MRI: Acquisition of a High Performance Computing Cluster to Support Multidisciplinary Big Data Analysis and Modeling," Sponsored by National Science Foundation, Federal, \$399,038.00. (September 1, 2014 - August 31, 2017).

Xie, Feiqin (Principal), "Boundary Layer Cloud Entrainment Study with MODIS, MISR, CALIPSO, GPSRO, AMSR-E Measurements and Global Reanalysis," Sponsored by NASA, Federal, \$354,113.00. (June 10, 2014 - June 9, 2017).

Xie, Feiqin (Principal), Ao, Chi O (Co-Principal), Kubar, Terence (Co-Principal), "Advanced Retrieval of Cloudy Boundary Layer with MODIS, AMSR-E and GPS Radio Occultation's Direct and Reflected Measurements," Sponsored by NASA, Federal, \$445,917.00. (April 1, 2015 - March 31, 2017).

Xie, Feiqin (Co-Principal), Teixeira, Joao (Principal), "Making Earth System Data Records for Use in Research Environments: A Data Record of the Cloudy Boundary Layer," Sponsored by NASA, Federal, \$243,399.00. (June 1, 2015 - May 31, 2016).

Kar, Dulal C (Principal), Tatum, Terry (Co-Principal), Gibeaut, James (Co-Principal), Xie, Feiqin (Co-Principal), Mehrubeoglu, Ruby (Co-Principal), Chen, Ruizhi (Co-Principal), "CC-NIE Networking Infrastructure: Establishing a Science DMZ for Research in Coastal, Marine, Atmospheric, Environmental, and Geospatial Computing Sciences," Sponsored by National Science Foundation, Federal, \$495,466.00. (October 1, 2013 - September 30, 2015).

Xie, Feiqin (Principal), "Integrating a Campus GPS Station into a National Network for Real-time Column Water Vapor Measurement," Sponsored by TAMUCC-RCO, Texas A&M University-Corpus Christi, \$7,500.00. (September 10, 2014 - August 31, 2015).

Xie, Feiqin (Co-Principal), Haase, Jennifer (Co-Principal), Chen, Shu-Hua (Co-Principal), "Collaborative Research: Investigating the characteristics of lower tropospheric airborne GPS radio occultation observations and their impact in hurricane studies," Sponsored by National Science Foundation, Federal, \$266,637.00. (September 15, 2010 - August 31, 2015).

Xie, Feiqin (Co-Principal), Kursinski, E R (Principal), "NESDIS-NESDISPO-2008-2001042: Research in Satellite Data Assimilation for Numerical Weather, Climate, and Environmental Forecast Systems: "Improving the Impact of GPSRO Data Assimilation in the Lower Troposphere", " Sponsored by NOAA, Federal, \$227,000.00. (2010 - December 2012).

Scholarly and Creative Awards and Honors

Outstanding Student Award, Peking University, Beijing China. (2000).

SERVICE

Department

Attendee, Meeting, Island Fair. (November 2015 - Present).

Committee Member, BS-Atmospheric Science Program. (August 2015 - Present).

Committee Member, CMSS Recruitment Committee. (January 2015 - Present).

Faculty Advisor, Graduate Admission. (September 2012 - Present).

Committee Member, Faculty Search Committees for Environmental Chemist. (January 2015 - September 2015).

Committee Member, Faculty Search Committees for Chair of the Department of Physical & Environmental Sciences. (November 2013 - February 2014).

Committee Member, Faculty Search Committees for Two Tenure-track Faculty in Atmospheric Science in the Department of Physical & Environmental Sciences. (November 2012 - July 2013).

College

Committee Member, MS in High-impact Meteorology and Incident Response Program Development. (September 2012 - Present).
Committee Chair, BS in Atmospheric Science Program Development. (September 2012 - August 2015).

University

Attendee, Meeting, Library Liaison. (January 2014 - Present).
Committee Member, Quality Circle for New Program Approval Process. (March 2014 - August 2015).
Committee Member, University Technology Counsel (UTC). (September 2013 - December 2014).
Attendee, Graduation, Fall 2013 Commencement. (December 2013).

Professional

Member, Texas OneGulf Network of Experts (TONE). (October 2015 - Present).
Member, NASA MODIS Science Team. (June 2014 - Present).
Member, GNSS Radio-occultations and Heavy Precipitation Experiment in PAZ (ROHPP). (March 2012 - Present).
Member, International Radio Occultation Working Group (IROWG). (March 2012 - Present).
Reviewer, Journal Article, Journal paper reviewer. (2007 - Present).
Reviewer, Grant Proposal, NSF GRFP (Graduate Research Fellowship Program) Geosciences Review Panel. (January 2017).
Reviewer, Grant Proposal, NASA Proposal Review Panel. (November 2016).
Member, NASA Postdoctoral Program Reviewer. (March 2016 - April 2016).
Member, NDSEG Panelist (NATIONAL DEFENSE SCIENCE and ENGINEERING GRADUATE FELLOWSHIP PROGRAM). (January 2016 - February 2016).
Reviewer, Grant Proposal, NASA Proposal Review Panel. (November 2015).
Reviewer, Grant Proposal, NASA Proposal Reviewer. (April 2015).
Reviewer, Grant Proposal, NSF Proposal Reviewer. (February 2015 - April 2015).
Session Chair, RO Applications for Climate Session, Eighth FORMOSAT-3/COSMIC Data Users' Workshop. (September 2014 - October 2014).

Public

Grant Proposal Reviewer, External, National Aeronautics and Space Administration. (March 2015 - Present).
Grant Proposal Reviewer, External, National Science Foundation. (February 2015 - Present).
Guest Speaker, TAMU-CC Pollution Prevention Partnership. (February 2015).
Session Chair, Workshop Co-Chair. (September 2014 - October 2014).
Guest Speaker, State Representative Hunter's Water Desalination Summit. (August 2014).