

CURRICULUM VITAE

Haiyan Jiang

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Education

2004 Ph.D. Meteorology, University of Utah
1995 M.S. Atmospheric Remote Sensing, Chinese Academy of Meteorological Sciences (CAMS)
1992 B.S. (with honors) Atmospheric Physics, Nanjing Institute of Meteorology, China

Professional Experience

2014-present: Associate Professor, Florida International University
2010-2014: Assistant Professor, Florida International University
2007-2009: Research Assistant Professor, University of Utah
2004-2006: Research Associate, Joint Center for Earth Systems Technology, University of Maryland
Baltimore County, and NASA Goddard Space Flight Center, Greenbelt, MD
2000-2004: Research Assistant, University of Utah
2001: Summer work, NOAA Hurricane Research Division (HRD)
1998-2000: Research Associate, Research Center for Disastrous Weather, CAMS, China
1995-1998: Research Assistant, Institute of Mesoscale Meteorology, CAMS

Honors and Awards

Awarded Sabbatical Leave from FIU	2016-2017 academic year
FIU Top Scholar Award	2014
FIU Summer Faculty Development Award	2011
NASA GRIP Group Achievement Award	2010
Travel Fellowship for University Corporation of Atmospheric Research Annual Board Meeting	2009
NASA New Investigator Award in Earth Science	2008-2011
Travel Award for the Workshop on Tropical Cyclone and Climate, NSF & Columbia University	2006
NASA Earth System Science Fellowship Award	2003-2004
Excellent Honor Graduate Student, Nanjing Institute of Meteorology, China	1992
Excellent Student, Nanjing Institute of Meteorology, China	1990, 1991
1 st , 2 nd , and 3 rd -class scholarship, Nanjing Institute of Meteorology, China	1989-1992

Funded Research Proposals

- 2017-2019: NOAA Joint Hurricane Testbed (JHT) FY17: Estimation of Tropical Cyclone Intensity Using Satellite Passive Microwave Observations. (Principal Investigator)
- 2017-2020: NASA Weather and Atmospheric Dynamics (WAAD program): The Evolution and Contribution of Different Precipitation Types during the Symmetric Process of Tropical Cyclone Rapid Intensification. (Principal Investigator)
- 2015-2017: NOAA Joint Hurricane Testbed (JHT) FY15: Improvement and Implementation of the Probability-based Microwave Ring Rapid Intensification Index for NHC/JTWC Forecast Basins. (Principal Investigator)
- 2014-2017: NASA Earth System Science Fellowship for Yongxian Pei: Quantifying Asymmetries of Precipitation and Convection in Tropical Cyclones and Their Relationship to Storm Intensity Changes Based on 14 Years of TRMM Data. (HJ as the Principal Investigator)
- 2013-2015: NOAA Joint Hurricane Testbed (JHT) FY13: Improvement to the Satellite-based 37 GHz Ring Rapid Intensification Index. (Principal Investigator)
- 2011-2014: NASA Earth System Science Fellowship for Cheng Tao: Climatology of Hot Towers in Tropical Cyclones and Their Role in Tropical Cyclone Intensity Changes Based on 12 years of TRMM data. (HJ as the Principal Investigator)

- 2011-2014: NASA Earth System Science Fellowship for Joseph Zagrodnik: Diurnal Cycle of Precipitation Features and Quantitative Comparison of Precipitation Algorithms in Tropical Cyclones. (HJ as the Principal Investigator)
- 2011-2014: NASA Supplemental Education Awards for ROES Investigators: Undergraduate Summer Education and Research Program in Hurricane Monitoring and Forecasting Using Remote Sensing Observations. (Principal Investigator)
- 2011-2013: NOAA Joint Hurricane Testbed (JHT): Enhancement of SHIPS Rapid Intensification (RI) Index Using Satellite 37 GHz Microwave Ring Pattern. (Principal Investigator)
- 2011: FIU Summer Faculty Development Award.
- 2009-2013: NASA Hurricane Science Research Program (HSRP): A TRMM-based Tropical Cyclone Precipitation Feature Database and Its usage on Intensification Study. (Principal Investigator)
- 2008-2012: NASA New Investigator Program (NIP) in Earth Science: The Relationships between Environmental Factors, Convection, and Precipitation in Tropical Cyclones. (Principal Investigator)
- 2008-2011: NASA Precipitation Processing System (PPS): Population of Precipitation Systems Observed by Space-borne Radar and Microwave Radiometers. (Co- Investigator)
- 2007-2010: NASA Precipitation Measuring Mission (PMM): Differences and Similarities of Tropical Cyclone Rainfall Over Land and Sea Using Multisatellite Analyses: Implications for Inland Flooding Prediction. (Principal Investigator)
- 2003-2004: NASA Earth System Science (ESS) Fellowship: Variability of Ice and Liquid Precipitation Contents and Shape of Radar Reflectivity Profiles in Tropical Cyclones. (Principal Investigator)

Professional Service and Activities

- Associate Editor, *Monthly Weather Review* 2017-present
 Editorial Board, *Climate* 2012-2014
 Member and Co-Chair, NASA Global Hydrology Resource Center (GHRC) User Working Group 2016-present
 Member, World Meteorology Organization (WMO) International Workshop on Tropical Cyclone Landfall Processes (IWTCLP-IV) Working Group for Focus Area TC Rainfall 2017
 Member, World Meteorology Organization (WMO) 8th International Workshop on Tropical Cyclones (IWTC-VIII) Working Group for Topic 2.6 Intensity Change: Internal Influences 2014
 Member, World Meteorology Organization (WMO) International Workshop on Tropical Cyclone Landfall Processes (IWTCLP-III) Working Group for Topic 8.1 Rainfall 2014
 Panel Review Panels/Committees for NASA 2009, 2011, 2012, 2013, 2018
 Proposal reviewer for NSF 2012, 2016, 2017, 2018
 Proposal reviewer for Hongkong Research Grants Council 2014, 2015, 2016, 2017, 2018
 Proposal reviewer for NASA 2009, 2011, 2012, 2015
 Proposal reviewer for Maryland Industrial Partnerships (MIPS) 2014
 Journal article reviewer for AMS and AGU journals 2003-present
 Coordinator of the “*Tropical Cyclone and Remote Sensing*” topic for the American Meteorological Society 33rd Conference on Hurricanes and Tropical Meteorology, Ponte Vedra, FL April 16 – 20, 2018.
 Chair of Session 10D “*Tropical Cyclone and Remote Sensing I*” at the American Meteorological Society 33rd Conference on Hurricanes and Tropical Meteorology, Ponte Vedra, FL April 16 – 20, 2018.
 Co-host of the Tropical Cyclone Operations and Research Forum (TCORF)/72nd Interdepartmental Hurricane Conference (IHC), Florida International University (FIU)’s Graham Center in Miami, FL, March 13-15, 2018 (co-host with the NOAA’s Office of the Federal Coordinator for Meteorology (OFCM)).
 Chair of Session 13B “*Tropical Cyclone Rainbands and Precipitation I*” at the American Meteorological Society 32nd Conference on Hurricanes and Tropical Meteorology, San Juan, Puerto Rico, USA, April 17-22, 2016.
 Chair of Session 10A “*Tropical Cyclone Rainbands and Precipitation*” at the American Meteorological Society 31st Conference on Hurricanes and Tropical Meteorology, San Diego, California, USA, March 30- April 4, 2014.
 Convener of the session “*Remote Sensing of Tropical Cyclones and Tropical Convective Systems: Observations and Data Assimilation*” at the American Geophysical Union Fall Meeting, San Francisco, CA, December 3-7, 2012.
 Chair of Session on “*Comparisons of the 2008 and 2010 Snapshots of Tropical Cyclone R & D*” at the NOAA 65th Interdepartmental Hurricane Conference, Miami, Florida, Feb. 28-Mar. 3, 2011.

Teaching Experience

At Florida International University

MET 3502 & MET 3502L, Synoptic Meteorology and Lab, Fall 2017, Spring 2016, Fall 2015, Fall 2014, Fall 2013, Spring 2013, Fall 2010, & Fall 2011

MET 5561 & MET 5561L, Midlatitude Synoptic Meteorology and Lab, Fall 2014, Fall 2013

MET4520L/5533L, Weather Discussion, Fall 2017, Fall 2015

MET 4410/5412, Remote Sensing in Meteorology, Spring 2018, 2014, 2011

MET 4300/MET5355, Severe Weather, Spring 2015, Spring 2012,

IDS3211c, Global Climate Change: Science, Society and Solutions, Spring 2014

OCE 3014, Oceanography, Fall 2012

At University of Utah

METEO 6310, Tropical Meteorology, Fall 2008 (Co-Instructor)

METEO 6140, Radar and Mesoscale Meteorology, Fall 2002 (Teaching Assistant)

Outreach Experience

2008-present: Developed and have maintained a 14+yr Tropical Rainfall Measurement Mission (TRMM) satellite based Tropical Cyclone Precipitation Feature (TCPF) database for the hurricane research community and general public (<http://tcpf.fiu.edu>)

2010-present: Faculty Sponsor of the FIU WxChallenge Competition Team (<http://tcpf.fiu.edu/Jiang/education/wxchallenge/index.html>)

Summer 2011, 2012, & 2013: NASA/FIU Hurricane and Remote Sensing Summer Education and Research Internship Program (HRSSERP, <http://tcpf.fiu.edu/Jiang/education/HRSSERP/index.html>)

2008-2009: Severe Weather Module Designed for Water, the Environment, Science and Teaching (WEST) Program, University of Utah (http://www.inscc.utah.edu/~u0180931/hjiang/west/severe_weather_module.html).

Research Staff & Postdoc Scholars Supervised

Yongxian Pei (Postdoc, Jan 2018-present)

Xiang Wang (Postdoc Visiting Scholar, Nov. 2017-present)

Bo Qian (Postdoc Visiting Scholar, Oct. 2017-present)

Cheng Tao (Postdoc Research Associate, Jun. 2016-Jul. 2017)

Jonathan Zawislak (Research Assistant Professor, Oct. 2014 – Jul. 2017)

Tie Yuan (Postdoc Visiting Scholar, Sep. 2010-Sep. 2011; Mar. 2012-Aug. 2012)

Graduate Students Supervised

Adrian Lopez, Ph.D. (Fall 2017-present)

Xinxi Wang, Ph.D. (Fall 2017-present)

Tyler Wieland, M.S. (Fall 2014-Fall 2016)

Yongxian Pei, Ph.D. (Fall 2012-Fall 2017; defended on Oct. 12, 2017; currently as a postdoc)

Bradley Klotz, Ph.D. (Fall 2013-Spring 2017; defended on March 30, 2017; currently at NOAA HRD)

Margaret Kieper, Ph.D. (Fall 2012-Spring 2016)

Cheng Tao, Ph.D. Student (Fall 2010-Spring 2016; defended on Nov. 23, 2015)

Joseph Zagrodnik, M.S. Student (Fall 2010-summer 2013; defended on Nov. 5, 2012; currently in the PhD program at Univ. of Washington)

Ellen M. Ramirez, M.S. Student (Fall 2008-Fall 2010; defended on Dec. 9, 2010; currently at NOAA NESDIS SAB)

Undergraduate Students Supervised for Research

Michael Fischer (Spring 2013-Summer 2013): Research project titled, “An analysis of rapidly intensifying tropical cyclones in Atlantic and Eastern North Pacific basins derived from 13 years of TRMM data”

Brian Matilla, (Fall 2014-Spring 2015): Thesis titled, “The relationship between lightning and precipitation in tropical cyclones”

Logan Saucer, (Spring 2017- Fall 2017)

Refereed Publications (* graduate students or postdoc researchers)

32. Cheung, K. Z. Yu, R. L. Elsberry, M. Bell, **H. Jiang**, T. C. Lee, K.-C. Lu, Y. Oikawa, L. Qi, R. F. Rogers, K. Tsuboki, 2018: Recent Advances in Research and Forecasting of Tropical Cyclone Rainfall. *Tropical Cyclone Research and Review*, **7(2)**, 106-127.
31. Yang, Z., T. Yuan, **H. Jiang**, L. Zhang, and C. Zhang, 2018: Stratiform and Convective Precipitation Properties of Tropical Cyclones in the Northwest Pacific. *J. Geophys. Res.*, Accepted. DOI: 10.1002/2017JD027174.
30. Klotz*, B. W., and **H. Jiang**, 2017: Examination of Surface Wind Asymmetries in Tropical Cyclones: Part I. General Structure and Wind Shear Impacts. *Mon. Wea. Rev.*, **145**, 3989-4009.
29. Tao*, C., **H. Jiang**, and J. Zawislak* 2017: The Relative Importance of Stratiform and Convective Rainfall in Rapidly Intensifying Tropical Cyclones, *Mon. Wea. Rev.*, **145**, 795-809.
28. Klotz*, B. W., and **H. Jiang**, 2016: Global Composites of Surface Wind Speeds in Tropical Cyclones based on a 12-year Scatterometer Database. *Geophys. Res. Lett.*, **43**, doi:10.1002/2016GL071066.
27. Rogers, R. F., J. Zhang, Zawislak*, J., **H. Jiang**, G. R. Alvey III, E. J. Zipser, and S. Stevenson, 2016: Observations of the structure and evolution of Hurricane Edouard (2014) during intensity change. Part II: Kinematic structure and the distribution of deep convection. *Mon. Wea. Rev.*, **144**, 3355–3376.
26. Zawislak*, J., **H. Jiang**, G. R. Alvey III, E. J. Zipser, R. F. Rogers, J. Zhang, and S. Stevenson, 2016: Observations of the structure and evolution of Hurricane Edouard (2014) during intensity change. Part I: Relationship between the thermodynamic structure and precipitation. *Mon. Wea. Rev.*, **144**, 3333–3354.
25. Tao*, C. and **H. Jiang**, 2015: Distributions of shallow to very deep Precipitation–Convection in rapidly intensifying tropical cyclones. *J. Climate*, **28**, 8791-8824.
24. Zagrodnik*, J., and **H. Jiang**, 2014: Rainfall, Convection, and Latent Heating Distributions in Rapidly Intensifying Tropical Cyclones. *J. Atmos. Sci.*, **71**, 2789-2809.
23. **Jiang, H.** and C. Tao*, 2014: Contribution of tropical cyclones to global deep convection. *J. Climate*, **27**, 4313-4336.
22. Xu, W., **H. Jiang**, and X. Kang, 2014: Rainfall Asymmetries of Tropical Cyclones Prior to, During, and After Making Landfall in South China and Southeast United States. *Atmospheric Research*, **139**, 18-26.
21. Zagrodnik*, J., and **H. Jiang**, 2013: Investigation of PR and TMI Version 6 and Version 7 Rainfall Algorithms in Landfalling Tropical Cyclones Relative to the NEXRAD Stage-IV Multi-sensor Precipitation Estimate Dataset. *J. Appl. Meteor. Climatol.*, **52**, 2809-282.
20. **Jiang, H.**, and E. M. Ramirez*, 2013: Necessary conditions for tropical cyclone rapid intensification as derived from 11 years of TRMM data. *J. Climate.*, **26**, 6459-6470.
19. Tao*, C., and **H. Jiang**, 2013: Global distribution of hot towers in tropical cyclones based on 11-year TRMM data. *J. Climate*, **26**, 1371–1386.
18. Zagrodnik, J., and **H. Jiang**, 2013: Properties of Tropical Rainfall Measuring Mission (TRMM) Precipitation Radar (PR) and Microwave Imager (TMI) Rainfall Retrievals in Tropical Cyclone Inner Cores and Rainbands. *J. Geophys. Res.*, **118**, 29-42, DOI: 10.1029/2012JD017919.
17. **Jiang, H.**, E. M. Ramirez*, and D. J. Cecil, 2013: Convective and rainfall properties of tropical cyclone inner cores and rainbands from 11 years of TRMM data. *Mon. Wea. Rev.*, **141**, 431-450.
16. Kieper*, M., and **H. Jiang**, 2012: Predicting tropical cyclone rapid intensification using the 37 GHz ring pattern identified from passive microwave measurements. *Geophys. Res. Lett.*, **39**, L13804, doi:10.1029/2012GL052115.
15. **Jiang, H.**, 2012: The relationship between tropical cyclone intensity change and the strength of inner core convection. *Mon. Wea. Rev.*, **140**, 1164-1176.
14. **Jiang, H.**, C. Liu, and E. J. Zipser, 2011: A TRMM-based Tropical Cyclone Cloud and Precipitation Feature Database. *J. Appl. Meteor. Climatol.*, **50**, 1255-1274.
13. Xu, W., E. J. Zipser, C. Liu, and **H. Jiang**, 2010: On the relationships between lightning frequency and thundercloud parameters of regional precipitation systems. *J. Geophys. Res.*, **115**, D12203, doi:10.1029/2009JD013385.
12. **Jiang, H.**, and E. J. Zipser, 2010: Contribution of tropical cyclones to the global precipitation from eight seasons of TRMM data: Regional, seasonal, and interannual variations. *J. Climate.*, **23**, 1526-1543.
11. **Jiang, H.**, J. B. Halverson, and E. J. Zipser, 2008: Effects of environmental moisture on tropical cyclone precipitation: Land/ocean difference. *Geophys. Res. Lett.*, **35**, L17806, doi:10.1029/2008GL034658.
10. **Jiang, H.**, J. B. Halverson, J. Simpson, and E. J. Zipser, 2008: Hurricane “rainfall potential” derived from satellite observations aids overland rainfall prediction. *J. Appl. Meteor. Climatol.*, **47**, 944–959.
9. **Jiang, H.**, J. B. Halverson, J. Simpson, and E. J. Zipser, 2008: On the differences in storm rainfall from Hurricanes Isidore and Lili. Part II: Water budget. *Wea. Forecasting*, **23**, 44-61.

8. **Jiang, H.**, J. B. Halverson, and J. Simpson, 2008: On the differences in storm rainfall from Hurricanes Isidore and Lili. Part I: Satellite observations and rain potential. *Wea. Forecasting*, **23**, 29-43.
7. **Jiang, H.**, and E. J. Zipser, 2006: Retrieval of hydrometeor profiles in tropical cyclones and convection from combined radar and radiometer observations. *J. Appl. Meteor. Climatol.*, **45**, 1096-1115.
6. **Jiang, H.**, P. G. Black, E. J. Zipser, F. D. Marks, and E. W. Uhlhorn, 2006: Validation of rain rate estimation in hurricanes from the Stepped Frequency Microwave Radiometer: algorithm correction and error analysis. *J. Atmos. Sci.*, **63**, 252-267.
5. **Jiang, H.**, R. Ge, and X. Zhu, 2001: Preliminary analysis on the flow structure of heavy precipitation on June 9 in Changle area during HUAMEX, *Quarterly Journal of Applied Meteorology*, **12(1)**, 97-101 (in Chinese).
4. Ge, R., X. Zhu, and **H. Jiang**, 2000: A method for improving the probing ability of Doppler weather radar in the clear air, *Quarterly Journal of Applied Meteorology*, **11(3)**, 257-263 (in Chinese).
3. Ge, R., **H. Jiang**, and H. Peng, 1998: Flow structure of hailstorm in Beijing area, *Quarterly Journal of Applied Meteorology*, **9(1)**, 1-7 (in Chinese).
2. **Jiang, H.** and R. Ge, 1997: A new retrieval technique for single-Doppler radar, *Quarterly Journal of Applied Meteorology*, **8(2)**, 219-223 (in Chinese).
1. Gu, S., **H. Jiang**, and X. Liu, 1993: Doppler Velocity Display with TVGA Graphics Adaptor, *Journal of Nanjing Institute of Meteorology*, **16(4)**, 446-450 (in Chinese).

Dissertation and Thesis Supervised

- Pei, Y., 2017: Quantification of Precipitation Asymmetries in Tropical Cyclones and Their Relationship to Storm Intensity Changes Using TRMM Data. Ph.D. dissertation, Florida International University, defended on Oct. 12, 2017, 127 pp.
- Klotz, B., 2017: Evaluation and predictability of observation-based surface wind asymmetric structure in tropical cyclones. Ph.D. dissertation, Florida International University, defended on Mar. 30, 2017, 170 pp.
- Tao, C., 2015: Climatology of overshootings in tropical cyclones and their roles in tropical cyclone intensity change using TRMM data. Ph.D. dissertation, Florida International University, defended on Nov. 23, 2015, 193 pp.
- Zagrodnik, J. P., 2012: Comparison of Tropical Rainfall Measuring Mission (TRMM) Rainfall Algorithms in Tropical Cyclones. M. S. thesis, Florida International University, defended on Nov. 5, 2012, 106 pp.
- Ramirez, E. M., 2010: Convective and rainfall properties of tropical cyclone inner cores and rainbands in relation to tropical cyclone intensity changes using 12 years of TRMM data. M. S. thesis, University of Utah, defended on Dec. 9, 2010, 144 pp.

Invited Presentations

- Jiang, H.** 2016, The 37 GHz Cyan+Pink Ring and Tropical Cyclone Rapid Intensification. HFIP Biweekly Telecon, November 16.
- Jiang, H.** 2016, The TRMM Tropical Cyclone Precipitation Feature (TCPF) Database and Its Usage in Rapid Intensification Studies. Nanjing University of Information & Technology, Nanjing China, June 8.
- Jiang, H.** 2016, The TRMM Tropical Cyclone Precipitation Feature (TCPF) Database and Its Usage in Rapid Intensification Studies. Shanghai Typhoon Institute, Shanghai, China, June 6.
- Jiang, H.** and C. Tao 2015, The Importance of Shallow and Moderate Precipitation in the Upshear Quadrants to Tropical Cyclone Rapid Intensification as Derived from 14 Years of TRMM Data. *AGU Fall Meeting Session A43L (invited talk)*, San Francisco, CA, December 14-18.
- Jiang, H.** 2014: The relative importance of deep/very deep vs. shallow/moderate convection to rapid intensification: Results from 14 years of TRMM. *NOAA Hurricane Forecast Improvement program (HFIP) Workshop on Rapid Intensification of Tropical Cyclones*. Univ. of Miami RASMS, Nov 18, 2014.
- Jiang, H.**, 2013: Necessary conditions for tropical cyclone rapid intensification as derived from 11 years of Tropical Rainfall Measuring Mission (TRMM) data. Seminar for National Hurricane Center, Miami Florida, April 8.
- Jiang, H.** 2011: Satellite Observations of Tropical Cyclone Rainfall. Pre-HFIP workshop in celebration of Frank Marks' 60th birthday, NOAA HRD, November 7.
- Jiang, H.** 2009: Toward Improving the Prediction of Hurricane Rainfall and Intensity Change Using TRMM Satellite Observations. Florida International University, March 10.
- Jiang, H.** 2009: Precipitation and Convection in Tropical Cyclones as Seen from TRMM. University of Utah, January 28.
- Jiang, H.** 2008: Precipitation and Convection in Tropical Cyclones: A Vision from TRMM. University of Nebraska Lincoln, December 2.

- Jiang, H.** 2008: Contribution of tropical cyclones to the global precipitation from 9 years of TRMM data: Regional, seasonal, and interannual variations. Chinese National Climate Center, October 17.
- Jiang, H.** 2008: Precipitation and Convection in Tropical Cyclones: A Vision from TRMM. University of Nebraska Lincoln, December 2.
- Jiang, H.** 2008: Severe Weather Teaching Module. *WEST Fall Retreat, University of Utah*, September 20.
- Jiang, H.** 2006: Hydrometeor content retrieval and rainfall analysis in tropical cyclones from remote sensing observations. *Cooperative Institute for Meteorological Satellite Studies, University of Wisconsin-Madison*, May 22.
- Jiang, H.** 2006: Hydrometeor content retrieval and rainfall analysis in tropical cyclones from remote sensing observations, *Brookhaven National Laboratory*, April 10.
- Jiang, H.** 2006: Hydrometeor content retrieval and rainfall analysis in tropical cyclones from remote sensing observations, *CIMSS, University of Wisconsin-Madison*, May 22.
- Jiang, H.** and J. B. Halverson, 2004: A TRMM rainfall and water budget study on two tropical cyclones: flooding vs. non-flooding storms. *JCET, University of Maryland Baltimore County*, Nov. 10.
- Jiang, H.**, 2004: Retrieval of hydrometeor profiles in tropical cyclones and convection by a combined radar-radiometer algorithm. *Mesoscale Atmospheric Processes Branch, NASA Goddard Space Flight Center, Greenbelt, MD*, March 18.

Conference Proceedings, Talks, and Presentations (* graduate students or postdoc researchers)

- Jiang, H.** 2018: Tropical Cyclone Passive Microwave Intensity Estimation (PMW-IE) Model. *AMS 33rd Conference on Hurricanes and Tropical Meteorology Session 15C*, Ponte Vedra, FL, April 16-20, 2018.
- Lopez*, A. and **H. Jiang**, 2018: Climatology of Lightning in Tropical Cyclones as Observed by TRMM Lightning Imaging Sensor. *AMS 33rd Conference on Hurricanes and Tropical Meteorology Session 14C*, Ponte Vedra, FL, April 16-20, 2018.
- Pei*, Y. and **H. Jiang**, 2018: Quantification of Shear-relative Precipitation Asymmetries of Tropical Cyclones in Different Intensity Change Stages and during the Evolution of Rapid Intensification Using 16 years of TRMM Data. *AMS 33rd Conference on Hurricanes and Tropical Meteorology Session 14C*, Ponte Vedra, FL, April 16-20, 2018.
- Tao*, C. and **H. Jiang**, 2018: Climatology of Precipitation Types in Tropical Cyclones using Version 7 of the TRMM PR 2A23 Product. *AMS 33rd Conference on Hurricanes and Tropical Meteorology Poster Session 25*, Ponte Vedra, FL, April 16-20, 2018.
- Wang*, X. and **H. Jiang**, 2018: Evolution of Environmental Characteristics in Rapidly Intensifying and Slowly Intensifying Tropical Cyclones in the North Atlantic and Eastern North Pacific. *AMS 33rd Conference on Hurricanes and Tropical Meteorology Session 9C*, Ponte Vedra, FL, April 16-20, 2018.
- Pei*, Y., **H. Jiang**, K. Musgrave, J. Zawislak, and G. Chirokova, 2018: Improvement and Implementation of the Probability-based Microwave Ring Rapid Intensification Index (PMWRing RII) for NHC/JTWC Forecast – Year 3 Update, *72nd Interdepartmental Hurricane Conference/Tropical Cyclone Research Forum*, Miami, Florida, Mar 13-15, 2018.
- Jiang, H.**, Y. Pei*, and C. Tao*, 2018: Estimation of Tropical Cyclone Intensity Using Satellite Passive Microwave Observations, *72nd Interdepartmental Hurricane Conference/Tropical Cyclone Research Forum*, Miami, Florida, Mar 13-15, 2018.
- Jiang, H.**, B. You, and C. Tao* 2017: Estimation of Tropical Cyclone Intensity Using Satellite Passive Microwave Observations. *71st Interdepartmental Hurricane Conference/2017 Tropical Cyclone Research Forum*, Mar 14-16, 2017.
- Jiang, H.**, J. Zawislak*, Y. Pei*, C. Tao*, K. Musgrave, and G. Chirokova 2017: JHT Project 3: “Improvement and Implementation of the Probability-based Microwave Ring Rapid Intensification Index for NHC/JTWC Forecast Basins” *71st Interdepartmental Hurricane Conference/2017 Tropical Cyclone Research Forum*, Mar 14-16, 2017.
- Pei*, Y. and **H. Jiang**, 2017: Shear-motion Combined Effects on Tropical Cyclone Low-wavenumber Precipitation Asymmetry. *AMS 97th Annual Meeting, Seattle, Washington, Jan 22-26, 2017* (Poster presentation).
- Jiang, H.** and C. Tao*, 2016: The TRMM Tropical Cyclone Precipitation Feature (TCPF) database and Its Usage in Rapid Intensification Studies. *AMS 32nd Conference on Hurricanes and Tropical Meteorology Session 15B.6*, San Juan, Puerto Rico, April 17-22, 2016.
- Zawislak*, J., C. Tao*, **H. Jiang**, T. Alvey, and E. Zipser, 2016: Precipitation Characteristics of the Tropical Cyclone Life Cycle as Derived from a Satellite-borne Passive Microwave and Radar Dataset. *NASA Precipitation Measuring Mission Science Team Meeting*, Clear Lake, TX. October 24-28, 2016.

- Tao*, C., J. Zawislak*, and **H. Jiang**, 2016: The Relative Importance of Stratiform and Convective Rainfall in Rapidly Intensifying Tropical Cyclones. The *2016 JPL Workshop on "Integrating satellite observations and airborne data with model forecast to understand hurricane processes and evaluate models."* Pasadena, CA. June 21-23, 2016.
- Pei*, Y. and **H. Jiang**, 2016: Quantification of Shear-relative Precipitation Asymmetries of Tropical Cyclones in Different Intensity Change Stages. *AMS 32nd Conference on Hurricanes and Tropical Meteorology Session 9D.2*, San Juan, Puerto Rico, April 17-22, 2016.
- Klotz*, B. W. and **H. Jiang**, 2016: Using a Scatterometer-based, Low-wavenumber Analysis Tool to Evaluate Surface Wind Asymmetries in Tropical Cyclones. *AMS 32nd Conference on Hurricanes and Tropical Meteorology Session 9D.1*, San Juan, Puerto Rico, April 17-22, 2016.
- Tao*, C. and **H. Jiang**, 2016: The Evolution of Rainfall and Convection in Rapidly Intensifying Tropical Cyclones based on 16 years of TRMM Data. *AMS 32nd Conference on Hurricanes and Tropical Meteorology Session 6D.1*, San Juan, Puerto Rico, April 17-22, 2016.
- Rogers, R. F., J. Zhang, J. Zawislak*, **H. Jiang**, G. R. Alvey III, E. J. Zipser, and S. Stevenson, 2016: Observations of the structure and evolution of Hurricane Edouard (2014) during intensity change. Part II: Kinematic structure and the distribution of deep convection. *AMS 32nd Conference on Hurricanes and Tropical Meteorology Session 1C.2*, San Juan, Puerto Rico, April 17-22, 2016.
- Zawislak*, J., **H. Jiang**, G. R. Alvey III, E. J. Zipser, R. F. Rogers, J. Zhang, and S. Stevenson, 2016: Observations of the structure and evolution of Hurricane Edouard (2014) during intensity change. Part I: Relationship between the thermodynamic structure and precipitation. *AMS 32nd Conference on Hurricanes and Tropical Meteorology Session 1C.1*, San Juan, Puerto Rico, April 17-22, 2016.
- Jiang, H.**, 2016: JHT Project 5: Improvement and Implementation of the Probability-based Microwave Ring Rapid Intensification Index for NHC/JTWC Forecast Basins. *70th Interdepartmental Hurricane Conference/2016 Tropical Cyclone Research Forum*, Mar 15-17, 2016.
- Jiang, H.**, Y. Pei*, C. Tao*, M. Kieper*, and J. Zagrodnik* 2015: Improvement to the Satellite-based 37 GHz Ring Rapid Intensification Index—A Year-2 Update. *69th Interdepartmental Hurricane Conference/Tropical Cyclone Research Forum*, Mar 2-5, 2015.
- Jiang, H.**, Y. Pei* and J. Zagrodnik*, 2014: Rainfall and Convection Asymmetries of Tropical Cyclones from TRMM Precipitation Radar Observations. *AMS 31st Conference on Hurricanes and Tropical Meteorology*, San Diego, California, March 30- April 4, 2014.
- Jiang, H.**, M. Kieper*, and Y. Pei*, 2014: Improvement to the Satellite-based 37 GHz Ring Rapid Intensification Index. *67th Interdepartmental Hurricane Conference/Tropical Cyclone Research Forum*, Mar 4-7, 2014.
- Kieper*, M., C. Landsea, and **H. Jiang**, 2014: The Internal Structure of 1969 Hurricane Camille for the Atlantic Hurricane Database Reanalysis Project. *AMS 31st Conference on Hurricanes and Tropical Meteorology Session 5C.7*, San Diego, California, March 30- April 4, 2014.
- Tao*, C. and **H. Jiang**, 2014: Distributions of convection in rapidly intensifying tropical cyclones. *AMS 31st Conference on Hurricanes and Tropical Meteorology Session 6D.1*, San Diego, California, March 30- April 4, 2014.
- Pei*, Y. and **H. Jiang**, 2014: Asymmetries of Tropical Cyclone Convection in Different Intensity Change Stages as Derived from Satellite 85 and 37 GHz observations. *AMS 31st Conference on Hurricanes and Tropical Meteorology Session 9C.6*, San Diego, California, March 30- April 4, 2014.
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