

# James H. Ruppert, Jr.

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[Research Group Webpage](#)

Curriculum Vitae  
January 2022

## EDUCATION

**2015**      **Ph.D.**, Atmospheric Science, Colorado State University, Fort Collins, CO  
**2012**      **M.S.**, Atmospheric Science, Colorado State University, Fort Collins, CO  
**2009**      **B.S.** (*summa cum laude*), Atmospheric Science, University at Albany, Albany, NY

## POSITIONS

**2021–current**      **Assistant Professor**  
School of Meteorology, University of Oklahoma, Norman, OK

**2018–2020**      **Assistant Research Professor**  
Department of Meteorology and Atmospheric Science, Center for Advanced Data Assimilation and Predictability Techniques, Penn State University, University Park, PA

**2015–2018**      **NSF AGS and Alexander von Humboldt Postdoctoral Research Fellow**  
Max Planck Institute for Meteorology, Hamburg, Germany

**2012**      **NSF East Asia and Pacific Summer Institutes (EAPSI) Fellow**  
Department of Atmospheric Sciences, National Taiwan University, Taipei, Taiwan

**2009–2015**      **Graduate Research Assistant**  
Department of Atmospheric Science, Colorado State University, Fort Collins, CO

## REFEREED PUBLICATIONS

	H-index	Total citations
<a href="#">Google Scholar</a>	15	643
<a href="#">Web of Science</a>	13	491

1. Zhang, Y., and **Coauthors**, 2021: Ensemble-Based Assimilation of Satellite All-Sky Microwave Radiances Improves Intensity and Rainfall Predictions for Hurricane Harvey (2017) [Preprint]. *ESSOAr*, <https://doi.org/10.1002/essoar.10508117.2>
2. **Ruppert, J. H., Jr.**, S. E. Koch, X. Chen, Y. Du, A. Seimon, Y. Sun, J. Wei, and L. F. Bosart, 2021: Mesoscale gravity waves and midlatitude weather: A tribute to Fuqing Zhang, *Bull. Amer. Meteor. Soc.*, DOI: [10.1175/BAMS-D-20-0005.1](https://doi.org/10.1175/BAMS-D-20-0005.1)
3. **Ruppert, J. H., Jr.**, A. A. Wing, X. Tang, and E. L. Duran, 2020: The critical role of cloud–infrared radiation feedback in tropical cyclone development, *Proc. Natl. Acad. Sci.*, **117**, 27884–27892, DOI: [10.1073/pnas.2013584117](https://doi.org/10.1073/pnas.2013584117)
  - \* *Science* Editors' Choice: "Birth of a storm"  
<https://doi.org/10.1126/science.2020.370.6518.twil>
  - \* Penn State News: "[Greenhouse effect of clouds instrumental in origin of tropical storms](#)"
4. Wing, A. A., and **Coauthors**, 2020: Clouds and convective self-aggregation in a multi-model ensemble of radiative-convective equilibrium simulations, *J. Adv. Model. Earth Syst.* **12**, DOI: [10.1029/2020MS002138](https://doi.org/10.1029/2020MS002138)

5. **Ruppert, J. H., Jr.** and X. Chen, 2020: Island rainfall enhancement in the Maritime Continent, *Geophys. Res. Lett.*, **47**. DOI: [10.1029/2019GL086545](https://doi.org/10.1029/2019GL086545)
6. **Ruppert, J. H., Jr.**, X. Chen, and F. Zhang, 2020: Convectively forced diurnal gravity waves in the Maritime Continent, *J. Atmos. Sci.*, **77**, 1119–1136. DOI: [10.1175/JAS-D-19-0236.1](https://doi.org/10.1175/JAS-D-19-0236.1)
7. **Ruppert, J. H., Jr.**, and F. Zhang, 2019: Diurnal forcing and phase locking of gravity waves in the Maritime Continent, *J. Atmos. Sci.*, **76**, 2815–2835. DOI: [10.1175/JAS-D-19-0061.1](https://doi.org/10.1175/JAS-D-19-0061.1)
8. **Ruppert, J. H., Jr.**, and D. Klocke, 2019: The two diurnal modes of tropical upward motion, *Geophys. Res. Lett.*, **46**. DOI: [10.1029/2018GL081806](https://doi.org/10.1029/2018GL081806)
9. Chen, X., F. Zhang, and **J. H. Ruppert, Jr.**, 2019: Modulations of coastal rainfall diurnal cycle over South China by the boreal summer intraseasonal oscillation, *J. Climate*, **32**, 2089–2108. DOI: [10.1175/JCLI-D-18-0786.1](https://doi.org/10.1175/JCLI-D-18-0786.1)
10. **Ruppert, J. H., Jr.**, and M. E O'Neill, 2019\*: Diurnal cloud and circulation changes in tropical cyclones, *Geophys. Res. Lett.*, **46**. DOI: [10.1029/2018GL081302](https://doi.org/10.1029/2018GL081302)
  - \* *Eos* Research Spotlight: Underwood, E., 2019: A better understanding of tropical cyclones, *Eos*, 100. DOI: [10.1029/2019EO118381](https://doi.org/10.1029/2019EO118381)
11. **Ruppert, J. H., Jr.**, and C. Hohenegger, 2018: Diurnal circulation adjustment and organized deep convection, *J. Climate*, **31**, 4899–4916. DOI: [10.1175/JCLI-D-17-0693.1](https://doi.org/10.1175/JCLI-D-17-0693.1)
12. Ciesielski, P. E., R. H. Johnson, W. H. Schubert, and **J. H. Ruppert, Jr.**, 2018: Diurnal cycle of the ITCZ in DYNAMO, *J. Climate*, **31**, 4543–4562. DOI: [10.1175/JCLI-D-17-0670.1](https://doi.org/10.1175/JCLI-D-17-0670.1)
13. Bony, S., and **Coauthors**, 2017: EUREC4A: a field campaign to elucidate the couplings between clouds, convection and circulation, *Surveys in Geophysics*. DOI: [10.1007/s10712-017-9428-0](https://doi.org/10.1007/s10712-017-9428-0)
14. **Ruppert, J. H., Jr.**, 2016: Diurnal timescale feedbacks in the tropical cumulus regime. *J. Adv. Model. Earth Syst.*, **8**, 1483–1500. DOI: [10.1002/2016MS000713](https://doi.org/10.1002/2016MS000713)
15. **Ruppert, J. H., Jr.**, and R. H. Johnson, 2016: On the cumulus diurnal cycle over the tropical warm pool. *J. Adv. Model. Earth Syst.*, **8**, 669–690. DOI: [10.1002/2015MS000610](https://doi.org/10.1002/2015MS000610)
16. **Ruppert, J. H., Jr.**, and R. H. Johnson, 2015: Diurnally modulated cumulus moistening in the pre-onset stage of the Madden–Julian oscillation during DYNAMO. *J. Atmos. Sci.*, **72**, 1622–1647. DOI: [10.1175/JAS-D-14-0218.1](https://doi.org/10.1175/JAS-D-14-0218.1)
17. Johnson, R. H., P. E. Ciesielski, **J. H. Ruppert, Jr.**, and M. Katsumata, 2015: Sounding-based thermodynamic budgets for DYNAMO. *J. Atmos. Sci.*, **72**, 598–622. DOI: [10.1175/JAS-D-14-0202.1](https://doi.org/10.1175/JAS-D-14-0202.1)
18. **Ruppert, J. H., Jr.**, and L. F. Bosart, 2014: A case study of the interaction of a mesoscale gravity wave with a mesoscale convective system. *Mon. Wea. Rev.*, **142**, 1403–1429. DOI: [10.1175/MWR-D-13-00274.1](https://doi.org/10.1175/MWR-D-13-00274.1)
19. Johnson, R. H., R. S. Schumacher, **J. H. Ruppert, Jr.**, D. T. Lindsey, J. E. Ruthford, L. Kriederman, 2014: The role of convective outflow in the Waldo Canyon Fire. *Mon. Wea. Rev.*, **142**, 3061–3080. DOI: [10.1175/MWR-D-13-00361.1](https://doi.org/10.1175/MWR-D-13-00361.1)
20. **Ruppert, J. H., Jr.**, R. H. Johnson, and A. K. Rowe, 2013: Diurnal circulations and rainfall in Taiwan during SoWMEX/TIMREX (2008). *Mon. Wea. Rev.*, **141**, 3851–3872. DOI: [10.1175/MWR-D-12-00301.1](https://doi.org/10.1175/MWR-D-12-00301.1)

## BOOK CHAPTERS

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In process

DeMott, C. A., **J. H. Ruppert, Jr.**, A. V. Rydbeck, 2021: Intraseasonal variability for the Indian Ocean region. *The Indian Ocean and its role in the global climate system*, C. C. Ummenhofer and R. R. Hood, Eds., Elsevier, conditionally accepted.

## THESES AND DISSERTATIONS

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1. **Ruppert, J. H., Jr.**, 2015: Cumulus moistening, the diurnal cycle, and large-scale tropical dynamics. Ph.D. Dissertation, Colorado State University (CSU), 116 pp. ([link to PDF](#))
2. **Ruppert, J. H., Jr.**, 2012: Analysis of the diurnal cycle in Taiwan during the Terrain-influenced Monsoon Rainfall Experiment. M.S. Thesis, CSU, 107 pp., ([link to PDF](#))
3. **Ruppert, J. H., Jr.**, 2009: Analysis of the large-amplitude inertia–gravity wave of 7 March 2008. B.S. Thesis, University at Albany, 38 pp.

## PUBLICATIONS IN MEDIA

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1. **Ruppert, J. H., Jr.**, and A. A. Wing, 2020: [The 2020 Atlantic hurricane season was a record-breaker, and it's raising more concerns about climate change](#). *The Conversation*.
2. **Ruppert, J. H., Jr.**, 2016: The diurnal cycle: A bridge between weather and climate. *Physics Today: Down to Earth*. DOI: [10.1063/PT.5.4024](#)
3. **Ruppert, J. H., Jr.**, and R. H. Johnson, 2012: The diurnal cycle of rainfall during the Mei-yu season. APEC Research Center for Typhoon and Society (ACTS) Quarterly Newsletter, Vol. 2, No. 3, 8–11., available from [APEC-ACTS](#)

## GRANTS

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1. Young, G. (PI), F. Zhang (former PI; deceased), **J. H. Ruppert, Jr.** (co-PI), and Y. Zhang (co-PI), 2019–2021 (\$135,000): *Supplement to “Coupling of Gravity Waves and Convection, and Their Impacts on the Dynamics and Predictability of Multiscale Processes Associated with Moist Baroclinic Jet–Front Systems,”* NSF-AGS Award 1712290
2. **Ruppert, J. H., Jr.** (PI), 2016–2018 (\$192,000): *The diurnal cycle, cloud–radiative feedbacks, and large-scale tropical dynamics*, NSF-AGS Postdoctoral Research Fellowship Award 1524844
3. **Ruppert, J. H., Jr.** (PI), 2015–2017 (€82,800): Alexander von Humboldt Postdoctoral Research Fellowship
4. **Ruppert, J. H., Jr.** (PI), 2012 (\$5,000): *Relationships between Intraseasonal Variability and Convection in the Southeast Asian Summer Monsoon*, NSF East Asia and Pacific Summer Institutes Fellowship.

## TEACHING

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<b>2022</b>	<b>Instructor:</b> Atmospheric Dynamics 2 (METR 3123; spring; 35 students) School of Meteorology, University of Oklahoma, Norman, Oklahoma
<b>2021</b>	<b>Instructor:</b> Atmospheric Dynamics 1 (METR 3113; fall; 45 students) School of Meteorology, University of Oklahoma, Norman, Oklahoma
<b>2018</b>	<b>Guest Lecturer:</b> Advanced Lectures on Clouds and Precipitation: Moist Convection and Large-scale Dynamics in the Tropics, CAMS/CMA, Beijing, China
<b>2013</b>	<b>Teaching Assistant, Lab Instructor:</b> Intro. to Weather and Climate (ATS 350; fall) Department of Atmospheric Science, Colorado State University
<b>2012</b>	<b>Teaching Assistant, Lab Instructor:</b> Mesoscale Meteorology (ATS 541; spring) Department of Atmospheric Science, Colorado State University
<b>2010, 2011</b>	<b>Teaching Assistant:</b> Weather and Climate for Educators (summer) Department of Atmospheric Science, Colorado State University

## ADVISING AND MENTORING

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### School of Meteorology, University of Oklahoma

#### *Graduate Student Supervision*

- 2021– Theresa Linchek, M.S. Student
- 2021– Emily Luschen, M.S. Student
- 2021– Hrag Najarian, Ph.D. Student

#### *Undergraduate Student Supervision*

- 2021– Andrew Muehr, B.S. Student
- 2021– Emily West, B.S. Student

#### *Graduate Committee Member*

- 2022 Erin Jones, M.S.
- 2022 Max Ungar, M.S.
- 2021 Hrag Najarian, M.S.

### Other Institutes

#### *Graduate Student Supervision*

- 2018 Marie-Léa Pouliquen, Diplôme de l'Ecole Normale Supérieure (M.S.), École normale supérieure, Paris, France, research conducted at Max Planck Institute for Meteorology

#### *Graduate Committee Member*

- 2021 Jacob Sorber, M.S., Dept. of Meteorology and Atmos. Sci., Penn State University
- 2020 Nicholas Barron, M.S., Dept. of Meteorology and Atmos. Sci., Penn State University

## UNIVERSITY OF OKLAHOMA SERVICE

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- 2021–2022 School of Meteorology Faculty Search Committee Member
- 2021–2022 Graduate Admissions Committee member, School of Meteorology
- 2021 School of Meteorology Mentoring Ecosystem Group Leader
- 2021 Coauthor of School of Meteorology Strategic Plan 2030

## EXTERNAL SERVICE

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- Ongoing:** **Proposal reviewer (7 to date):** NSF Physical Oceanography, NSF Climate and Large-Scale Dynamics  
**Journal reviewer (~60 to date):** *Climate Dynamics, Geophys. Res. Lett., J. Climate, J. Adv. Model. Earth Syst., J. Atmos. Sci., J. Appl. Meteor. Climatol., J. Geophys. Res., Mon. Wea. Rev., Quart. J. Roy. Meteor. Soc., Int. J. Climatol.*  
**Society memberships:** American Geophysical Union, American Meteorological Society, European Geophysical Union
- 2021 **Committee member:** AMS Max A. Eaton Student Prize Committee
- 2018 **Lead-organizer:** *Climate Science Symposium for the visit of the Alexander von Humboldt Foundation International Climate Protection Fellows* at the Max Planck Institute for Meteorology, Hamburg, Germany
- 2012–16 **Committee member:** AMS Committee on Mesoscale Processes

- 2013**      **Club Tres Mentor:** Fort Collins, CO: led hands-on activities for elementary-school students to engage them in science
- 2012–13**    **Committee member:** Fort Collins Atmospheric Scientists (FORTCAST; local AMS chapter) Steering Committee
- 2011–15**    **Lead-organizer:** “Severe Weather for High Schools” – graduate students conducting interactive learning activities in severe weather in Front Range high schools
- 2011**      **Fieldwork operator:** Sounding launches on Diego Garcia, British Indian Ocean Territory during the Dynamics of the MJO (DYNAMO) field campaign for the National Center for Atmospheric Research
- 2011**      **Research opportunities for undergraduates (REU) mentor:** David Wang, Department of Atmospheric Science, Colorado State University

## HONORS AND AWARDS

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- 2021**      2020 Editors’ Citation for Excellence in Refereeing – AGU, *Geophys. Res. Lett.*
- 2020**      *Science* Magazine, [Editor’s Choice](#)
- 2019**      *EOS* [Research Spotlight](#)
- 2016**      European Geophysical Union (EGU) Outstanding Student Poster Award
- 2015**      NSF AGS Postdoctoral Research Fellowship
- 2015**      Alexander von Humboldt Postdoctoral Research Fellowship
- 2015**      1<sup>st</sup> Place Student Oral Presentation, AMS 16<sup>th</sup> Conference on Mesoscale Processes
- 2013**      Colorado State University, Alumni Award, Department of Atmospheric Science
- 2013**      Colorado State University, Shrake Culler Graduate Scholarship
- 2012**      NSF East Asia and Pacific Summer Institutes Fellowship
- 2009**      2<sup>nd</sup> Place Student Poster Presentation, 13<sup>th</sup> Conference on Mesoscale Processes (AMS)
- 2009**      University at Albany, graduation with honors, *summa cum laude*
- 2009**      Distinguished Student Award, Department of Atmospheric and Environmental Sciences, University at Albany
- 2009**      Undergraduate Research Award, University at Albany

## INVITED SEMINARS

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- 2020**      Department of Earth System Science  
University of California Irvine, Irvine, CA, 6 April 2020
- 2020**      NOAA Cooperative Institute for Research in the Atmosphere (CIRA)  
Colorado State University, Fort Collins, CO, 4 March 2020
- 2020**      Department of Atmospheric Science  
University of Wyoming, Laramie, WY, 27 February 2020
- 2020**      Department of Meteorology  
Naval Postgraduate School, Monterey, CA, 19 February 2020
- 2020**      School of Meteorology  
University of Oklahoma, Norman, OK, 10 February 2020

- 2020** Department of Meteorology and Atmospheric Science  
Penn State University, State College, PA, 5 February 2020
- 2020** Department of Atmospheric and Oceanic Sciences  
University of Wisconsin–Madison, Madison, WI, 27 January 2020
- 2019** Department of Atmospheric and Environmental Sciences  
University at Albany, Albany, NY, 7 October 2019
- 2019** *Frank Talk Series*, Department of Meteorology and Atmospheric Science  
Penn State University, State College, PA, 26 September 2019
- 2019** *Brown Bag Series*, Earth System Science Center  
Penn State University, State College, PA, 10 April 2019
- 2018** Department of Meteorology and Atmospheric Science  
Penn State University, State College, PA, 4 April 2018
- 2018** Department of Geological and Atmospheric Sciences  
Iowa State University, Ames, IA, 14 February 2018
- 2017** Max Planck Institute for Meteorology, Hamburg, Germany, 7 Nov 2017
- 2016** Institute of Geophysics and Meteorology  
University of Cologne, Cologne, Germany, 6 December 2016
- 2016** Max Planck Institute for Meteorology, Hamburg, Germany, 5 April 2016

## WORKSHOPS AND SYMPOSIA

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- 2018** *Propagating Diurnal Convection in the Maritime Continent during DYNAMO*  
Workshop: Second ADAPT Symposium on Advanced Understanding, Monitoring and Prediction of Weather, Climate and Environmental systems  
Penn State University, State College, PA, 16–18 December 2018
- 2018** *Circulation changes forced by the diurnal cycle of tropical organized deep convection*  
Workshop: Multiscale Modeling of Atmospheric Processes  
CAM5/CMA, Beijing, China, 20–27 March 2018
- 2017** *The diurnal cycle of large-scale overturning circulation*  
Workshop: The Future of Cumulus Parameterization  
Delft University of Technology, Delft, Netherlands, 10–14 July 2017
- 2016** *Large-scale Sounding Array for EUREC<sup>4</sup>A*  
Workshop: The Next-generation Aircraft Remote-sensing for Validation Studies (NARVAL) II—Elucidating the Role of Cloud–Circulation Coupling in Climate (EUREC<sup>4</sup>A), University of Cologne, Cologne, Germany, 7–9 December 2016
- 2016** *Diurnal timescale feedbacks in the tropical cumulus regime*  
Workshop: GEWEX Convection-Permitting Climate Modeling  
National Center for Atmospheric Research, Boulder, CO, 6–8 September 2016
- 2014** *Convective clouds, moisture preconditioning, and the diurnal cycle during DYNAMO*  
Workshop: Advances in Tropical Dynamics  
University of Hawaii, Honolulu, HI, 14–16 January 2014
- 2013** *The diurnal cycle of moistening during MJO preconditioning periods in DYNAMO*  
Workshop: Global Atmospheric System Studies MJO Task Force Meeting on the Heating and Moistening Processes of the Madden–Julian Oscillation  
Centre for Climate Research Singapore, Singapore, 3–5 June 2013

## CONFERENCE PRESENTATIONS (AS FIRST AUTHOR)

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- 2022** *Scale interaction from the diurnal cycle to intraseasonal modes: A tribute to Dick Johnson* (oral), AMS AMS 102<sup>nd</sup> Annual Meeting, Virtual
- 2021** *Intraseasonal modes and the diurnal cycle of tropical convection in the Indo-Pacific* (oral), AGU Fall meeting, Virtual (coauthors: X. Chen)
- 2021** *Island Rainfall Enhancement and Diurnal Rectification in the Maritime Continent* (oral), AMS 34<sup>th</sup> Conference on Hurricanes and Tropical Meteorology, Virtual (coauthors: X. Chen, F. Zhang)
- 2021** *The critical role of cloud–longwave radiation feedback in the formation and rapid intensification of super typhoon Haiyan (2013) and major hurricane Maria (2017)* (oral), AMS 34<sup>th</sup> Conference on Hurricanes and Tropical Meteorology, Virtual (coauthors: A. A. Wing, X. Tang, E. Duran)
- 2021** *The Critical Role of Cloud–Infrared Radiation Feedback in Tropical Cyclone Development* (oral), vEGU 2021, Virtual (coauthors: A. A. Wing, X. Tang, E. Duran)
- 2021** *The Critical Role of Cloud-Infrared Radiation Feedback in Tropical Cyclone Development* (oral), AMS 101<sup>st</sup> Annual Meeting, Virtual (coauthors: A. A. Wing, X. Tang, E. Duran)
- 2020** *Island Rainfall Enhancement and Diurnal Rectification in the Maritime Continent* (poster), AGU Fall Meeting, Virtual (coauthors: X. Chen)
- 2020** *Diurnal forcing and phase locking of gravity waves in the Maritime Continent* (oral), AMS 100<sup>th</sup> Annual Meeting, Boston, MA (coauthors: F. Zhang, X. Chen)
- 2019** *Diurnal forcing and phase locking of gravity waves in the Maritime Continent* (oral), AMS 18<sup>th</sup> Conference on Mesoscale Processes, Savannah, GA (coauthor: F. Zhang)
- 2018** *A tale of two diurnal cloud modes* (oral), AGU Fall Meeting, Washington D.C. (coauthors: C. Hohenegger, M. O'Neill, and D. Klocke)
- 2018** *How does the diurnal radiative heating cycle impact the genesis and intensification of tropical cyclones?* (oral), AMS 33<sup>rd</sup> Conference on Hurricanes and Tropical Meteorology, Ponte Vedra, FL (coauthors: C. Hohenegger and M. O'Neill)
- 2018** *Diurnal circulation adjustment and organized deep convection* (oral), AMS 33<sup>rd</sup> Conference on Hurricanes and Tropical Meteorology, Ponte Vedra, FL (coauthor: C. Hohenegger)
- 2018** *Diurnal circulation adjustment and organized deep convection* (oral), EGU General Assembly 2018, Vienna, Austria (coauthors: C. Hohenegger and M. O'Neill)
- 2018** *Diurnal modes of tropical cyclones* (poster), EGU General Assembly 2018, Vienna, Austria (coauthors: C. Hohenegger and M. O'Neill)
- 2017** *The diurnal cycle of tropical large-scale circulation* (poster), EGU General Assembly 2017, Vienna, Austria (coauthor: C. Hohenegger)
- 2016** *Acceleration of the Large-scale Onset of Deep Convection by the Shallow Cumulus Diurnal Cycle* (oral), 2016 AGU Fall Meeting, San Francisco, CA
- 2016** *Climate implications of the moist convective diurnal cycle* (poster), EGU General Assembly 2016, Vienna, Austria (**outstanding student poster award**)
- 2015** *Rectified moistening by the cumulus diurnal cycle* (oral), 2014 AMS 16<sup>th</sup> Conference on Mesoscale Processes, Boston, MA (coauthor: R. H. Johnson) (**1<sup>st</sup> place student oral presentation**)
- 2014** *Diurnally modulated cumulus moistening in the pre-onset stage of the Madden–Julian oscillation during DYNAMO* (poster), 2014 AGU Fall Meeting, San Francisco, CA (coauthor: R. H. Johnson)

- 2014** *Cumulus moistening, convection, and the diurnal cycle during pre-onset periods in DYNAMO* (oral), AMS 31<sup>st</sup> Conference on Hurricanes and Tropical Meteorology, San Diego, CA (coauthors: R. H. Johnson, P. E. Ciesielski)
- 2013** *The diurnal cycle of moistening by shallow convection during DYNAMO* (p), 2013 AGU Fall Meeting, San Francisco, CA (coauthor: R. H. Johnson)
- 2013** *Diurnal convection and mesoscale organization in the MJO during DYNAMO*, AMS 15<sup>th</sup> Conference on Mesoscale Processes (o), Portland, OR (coauthor: R. H. Johnson)
- 2012** *Diurnal cycle of rainfall in Taiwan during SoWMEX/TIMREX (2008)* (p), 2012 AGU Fall Meeting, San Francisco, CA (coauthor: R. H. Johnson)
- 2011** *Analysis of flow variability during the Terrain-influenced Monsoon Rainfall Experiment (2008)* (o), AMS 14<sup>th</sup> Conference on Mesoscale Processes, Los Angeles, CA (coauthor: R. H. Johnson)
- 2011** *Case study of a large-amplitude mesoscale inertia–gravity wave over the Southeast U.S.* (o), AMS 14<sup>th</sup> Conference on Mesoscale Processes, Los Angeles, CA (coauthor: L. F. Bosart)
- 2011** *Case study of a large-amplitude inertia–gravity wave over the Southeast* (p), AMS 24<sup>th</sup> Conference on Weather and Forecasting, Seattle, WA (coauthor: L. F. Bosart)
- 2010** *Case study of a large-amplitude inertia–gravity wave over the Southeast* (p), AMS 25<sup>th</sup> Conference on Severe Local Storms, Denver, CO (coauthor: L. F. Bosart)
- 2009** *Case study of a large-amplitude inertia–gravity wave over the Southeast* (p), AMS 13<sup>th</sup> Conference on Mesoscale Processes, Salt Lake City, UT (coauthor: L. F. Bosart) (**2<sup>nd</sup> place student poster presentation**)