

## JENNIFER COLLINS PhD

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### EDUCATION

- 2002** PhD in Physics, Department of Space and Climate Physics  
Mullard Space Science Laboratory, University College London (United Kingdom)  
Research-only focused PhD focusing on hurricane climatology.
- 1997** BSc Honors degree in Physical Geography with Environmental Science Minor  
University of Lancaster (United Kingdom)
- 1995** Study abroad year at the University of Colorado (Boulder), GPA: 3.96

### PROFESSIONAL ACADEMIC EMPLOYMENT

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|-----------------------------|--|
| <b>Aug 7, 2018-present</b>  | Full Professor of Geosciences<br>University of South Florida, FL   |
| <b>Aug 7, 2013-2018</b>     | Associate Professor of Geosciences<br>University of South Florida, FL  |
| <b>Aug 7, 2011-Aug 2013</b> | Associate Professor of Geography, Environment and Planning<br>University of South Florida, FL  |
| <b>2005-2011</b>            | Assistant Professor of Geography<br>University of South Florida, FL  |
| <b>2003-2005</b>            | Assistant Professor of Geography and Geosciences<br>Bloomsburg University, PA  |
| <b>2001-2003</b>            | Assistant Professor of Meteorology<br>Plymouth State University (formerly Plymouth State College), NH  |
| <b>2000</b>                 | Assistant Professor of Meteorology (1 semester appointment in spring)<br>Plymouth State University, NH   |
| <b>1999-2001</b>            | Lecturer in the section on hurricanes for the 2 <sup>nd</sup> year undergraduate<br>Meteorology course<br>University College London, UK  |
| <b>1998-2001</b>            | Teacher for 'Environmental issues and weather related hazards' class<br>for 17-18 year old students<br>Hurtwood House School - Surrey, UK  |
| <b>1998-2001</b>            | Assistant - experiment room operator, computer back-up assistant,<br>grader for 2 <sup>nd</sup> year undergraduate course 'Atmosphere, Weather and<br>Climate'<br>Mullard Space Science Laboratory - University College London, UK |

## HONORS AND AWARDS

- Outstanding Undergraduate Teaching Award 2019/20, USF
- Executive Leadership in Academic Technology, Engineering and Science (ELATES) Fellow, 2020-2021
- Undergraduate Research Mentoring Award, Geoscience Division (GeoCUR) of the Council on Undergraduate Research, 2020
- AAG Harm J. de Blij Award, American Association of Geographers, 2020
- AAG E. Willard and Ruby S. Miller Award, American Association of Geographers, 2020
- Natural Hazards Center Scholarship to J.M. Collins, L. Mass, J. Valmond, E. Moralas, Erik Ackerson for Title: Compound Hazards, Evacuations, and Mass Sheltering – Improving Practices for Public Health in the PRVI Region. \$50,000, 2020
- Edward N. Lorenz Teaching Excellence Award, American Meteorological Society, 2019
- University of South Florida a Faculty Outstanding Research Achievement Award, 2019
- Southeast Division of the American Association of Geographers Research Award, 2018
- Kosove Distinguished Graduate Teaching and Service Award, University of South Florida, 2015
- Academy for Teaching and Learning Excellence (ATLE) Faculty Fellow, 2013-2015
- American Meteorological Society, Chapter of the Year Award, West Central Florida Chapter of the American Meteorological Society (WCFLAMS), 2015-2016, 2014-2015, 2011-2012. WCFLAMS Local Chapter Honor Roll 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2012-2013, 2013-2014 (My role – President of WCFLAMS and co-writer of application)
- Excellence in Teaching Award, Southeastern Division of the Association of American Geographers, 2010
- Outstanding Undergraduate Teaching Award, University of South Florida, 2007-2008
- Outstanding Student Organization Advisor, University of South Florida, 2007-2008
- Selected to take part in the Advanced Study Program of the National Center for Atmospheric Research colloquium: “Hurricanes at Landfall,” July 1998
- Numerous grant and travel awards

## BOOKS

- **Collins, J.M.** and K. Walsh, Eds, 2019: *Hurricane Risk*. Vol. 1. Springer, 260pp.
- **Collins, J.M.** and K. Walsh, Eds, 2017: *Hurricanes and Climate Change*. Vol. 3. Springer, 255pp.
- **Collins, J.M.**, R. Rohli and C. Paxton, 2017: *Florida Weather and Climate: More than Just Sunshine*. University Press of Florida, 247pp.
- Waterford, C. (Content advisor: **Jennifer Collins**), 2018: *Hurricane Harvey*. Redline Publications.
- Willett, E. (Content advisor: **Jennifer Collins**), 2018: *Hurricane Irma*. Redline Publications.

## BOOK CHAPTERS

*(Note: names in bold and underlined are my graduate or undergraduate students, this includes one co-mentored student from another university; underlined, bold with a \* are my former post-docs.)*

- **Collins, J.M.** and **D. Roache**, 2019: The 2015 Hurricane Season in the North Atlantic: An Analysis of Environmental Conditions. In *Hurricane Risk*. Vol. 1. J.M. Collins. and K. Walsh, Eds., Springer, 123–134. Peer-reviewed.
- **Collins, J.M.** and **C. Paxton**, Tropical Cyclone Impacts. In: *Extreme Events and Climate Change* by Federico Castillo and Michael Wehner (Eds). Wiley. Accepted Oct 2018. Peer-reviewed.
- **Collins, J. M., C. Paxton**, T. Wahl, & C. Emrich, 2017: Climate and Weather Extremes. In E. P. Chassignet, J. W. Jones, V. Misra, & J. Obeysekera (Eds.), *Florida's Climate: Changes, Variations, & Impacts* (pp. 579–615). Gainesville, FL: Florida Climate Institute. <https://doi.org/10.17125/fci2017.ch20>. Editorially reviewed.
- Muller, J., **J.M Collins**, S. Gibson, **L. Paxton**, 2017: Recent Advances in the Emerging Field of Paleotempestology. *Hurricanes and Climate Change Vol. 3*. J.M. Collins. and K. Walsh, Eds., Springer, 1–34. Peer-reviewed.
- **Yoo. J.\***, R. Rohli, **J.M. Collins**, 2016: Large-scale Low-level Circulation and the Unique Development of Hurricane Wilma in 2005. *Recent Developments in Tropical Cyclone Dynamics, Prediction, and Detection*, A. Lupo, Ed., InTech Publications, 89–109. Peer-reviewed.
- **Collins, J.M., D. R. Roache, E.W. Kopp IV**, & D. Lunsford, 2015: Seasonal Trends in Antarctic Temperature Reanalysis. *Selected Readings in Applied Climatology*, R.V. Rohli, and T.A. Joyner, Eds., Cambridge Scholars Publishing, Ltd., 74–87. (This is the 2012 *Papers of the Applied Geography Conferences paper* listed below which was SELECTED for this special edition). Peer-reviewed.

#### REFEREED ARTICLES - PUBLISHED OR ACCEPTED (as indicated)

(Note: names in bold and underlined are my graduate or undergraduate students, this includes one co-mentored student from another university; underlined, bold with a \* is my former post-doc.)

- **Saunders, M.**, and **J.M. Collins**, 2021. Factors Influencing the Motivations & Perceived Usefulness of a Weather Radar Display in Tampa Bay. Accepted in *BAMS* (March, 2020).
- **Zhu, Y.J.**, **J.M. Collins**, 2021. Recent Increase of the Post-landfall Hurricane Wind Decay Period over the Gulf Coast. Accepted in *Geophysical Research Letters* (February, 2021).
- **Collins, J.M., A. Polen, K. McSweeney, D. Colon Burgos, I. Jernigan**, 2021. Hurricane Risk Perceptions and Evacuation Decision Making in the Age of COVID-19. *Bulletin of The American Meteorological Society*. <https://doi.org/10.1175/BAMS-D-20-0229.1>
- **Cerrito E.**, Mock, C., **J.M. Collins**, 2021. The Great Havana Hurricane of 1846: A Reconstruction of the Storm's Track, Intensity, and Impacts. *The Annals of the Association of the American Geographers*. DOI: [10.1080/24694452.2020.1838257](https://doi.org/10.1080/24694452.2020.1838257)
- Bloemendaal, N., Hans de Moel, Jantsje M. Mol, P. Bosma, **A. N. Polen**, and **J.M. Collins**, 2021. Adequately Reflecting the Potential Impact of Tropical Cyclones Using the New Tropical Cyclone Severity Scale. *Environ. Res. Lett.* **16** (1).
- Ersing, R.L., **C. Pearce**, **J.M Collins**, **M. Saunders**, **A. Polen**, 2020. Geophysical and Social Influences on Evacuation Decision-Making: The Case of Hurricane Irma. *Atmosphere*, **11** (8). <https://doi.org/10.3390/atmos11080851>
- Wood K.M., P. J. Klotzbach, **J. M. Collins**, R. E. Truchelut, LP. Caron, C. J. Schreck, 2020. Factors Affecting the 2019 North Atlantic Hurricane Season and the Role of the Indian Ocean Dipole. *Geophysical Research Letters*, **47** (13), e2020GL087781. <https://doi.org/10.1029/2020GL087781>

- **Zhu Y.J.**, Y. Hu, and **J.M. Collins**, 2020. Estimating Road Network Accessibility during Hurricane Evacuation: A Case Study of Hurricane Irma in Florida. *Transportation Research Part D: Transport and Environment*, **83**, 102334.
- Senkbeil, J., J.R. Reed, **J.M. Collins**, K. Brothers, **M. Saunders**, W. Skeeter, **E. Cerrito**, **S. Chakraborty** and **A. Polen**, 2020. Perceptions of Hurricane Track Forecasts in the U.S.A. *Weather, Climate, and Society*. **12** (1), 15–29.
- Wood, K.M., P.J. Klotzbach, **J.M. Collins**, and C. Schreck. 2019. The Record-Setting 2018 Eastern North Pacific Hurricane Season. *Geophysical Research Letters*. **46** (16), 10072–10081. <https://doi.org/10.1029/2019GL083657>
- Senkbeil, J., **J.M. Collins**, J. Reed, 2019. Evacuee Perception of Geophysical Hazards for Hurricane Irma. *Weather, Climate, and Society*, **11**, 217–227. <https://doi.org/10.1175/WCAS-D-18-0019.1>
- **Collins, J.M.** “Climatology.” In Oxford Bibliographies in Geography. Ed. Barney Warf. New York: Oxford University Press, 2018.
- Klotzbach, P., C. Schreck, **J.M. Collins**, M.M. Bell, E.S. Blake, and **D. Roache**, 2018. The Extremely Active 2017 North Atlantic Hurricane Season. *Monthly Weather Review*. **146** (10), 3425–3443.
- **Saunders, M.**, **K. Ash\***, and **J.M. Collins**, 2018. Understanding How Members of the Public Seek, Access, Comprehend, and Use Weather Radar Displays. *Weather, Climate and Society*, **10** (4), 673–691. <https://doi.org/10.1175/WCAS-D-17-0108.1>
- **Collins, J.M.**, R. Ersing, **A. Polen**, **M. Saunders**, and J. Senkbeil, 2018. The Effects of Social Connections on Evacuation Decision Making during Hurricane Irma. *Weather, Climate and Society*, **10** (3), 459–469. <https://doi.org/10.1175/WCAS-D-17-0119.1>
- Rohli, R., **J.M. Collins**, R. Ersing, D. Lunsford, **A. Weatherall**, 2018: Hurricane Preparedness among University Residential Housing Assistants and Staff. *Weather, Climate, and Society*, **10** (2), 341–359. <https://doi.org/10.1175/WCAS-D-17-0012.1>
- **Collins, J.M.**, R.L. Ersing, and **A. Polen** (2017): Evacuation Decision Making during Hurricane Matthew: An Assessment of the Effects of Social Connections. *AMS Weather, Climate and Society*, **9** (4), 769–776. <https://doi.org/10.1175/WCAS-D-17-0047.1>
- **Collins, J.M.** and **D. Roache**, 2017: The 2016 North Atlantic Hurricane Season: A Season of Extremes. *Geophysical Research Letters*, **44** (10), 5071–507. <https://doi.org/10.1002/2017GL073390>
- **Yoo, J.\***, R. Rohli, **J.M. Collins**, 2017: Low-level Westerly Winds, Topography, and Tropical Cyclogenesis of Arlene (2005): Observations and Model Simulations. *The Professional Geographer*, **69** (3) 348–361. <http://dx.doi.org/10.1080/00330124.2016.1252270>
- **Collins, J.M.**, P. J. Klotzbach, R.N. Maue, **D.R. Roache**, E. S. Blake, C.H. Paxton, C.A. Mehta. 2016. The Record-Breaking 2015 Hurricane Season in the Eastern North Pacific: An Analysis of Environmental Conditions. *Geophysical Research Letters*, **43** (17), 9217–9224. <https://doi.org/10.1002/2016GL070597>  
This paper was also highlighted in EOS Research Spotlights as one of the best GRL papers of 2016.
- **Ercolani, C.**, J. Muller, **J.M. Collins**, M. Saverese and L.Squicimara, 2015: Intense Southwest Florida Hurricane Landfalls over the Past 1,000 Years. *Quaternary Science Reviews*. **126**, 17–25.
- **Yoo, J.\***, **J.M. Collins** and R. Rohli, 2015: An Investigation of the Tropical Cyclogenesis of Arlene (2005) Using the ERA-Interim Reanalysis and the WRF Model Simulation. *The Professional Geographer*, **67**, 396–411. <https://doi.org/10.1080/00330124.2014.987197>

- **Hartnett, J., J.M. Collins**, M. Baxter, D. Chambers, 2014: Spatiotemporal Snowfall Trends in Central New York. *Journal of Applied Meteorology and Climatology*, **53**, 2685–2697.
- **Paxton, C., J.M. Collins**, 2014. Weather, Ocean, and Social Aspects Associated with Rip Current Drownings in the United States. *Journal of Coastal Research*, **72**, Special Issue 1, 50–55.
- **Yoo, J.\***, **J.M. Collins** and R. Rohli, 2014: Tropical Cyclogenesis in the Intra-Americas Sea: Hurricane Cindy (2005). *The Professional Geographer*, **66**, 511–524. <https://doi.org/10.1080/00330124.2013.805628>
- **Collins, J.M.** and P. Flaherty, 2014: Keeping an 'Eye' on Tropical Research Data: The NOAA Hurricane Hunters, Their Missions and Their Recent Work with the University of South Florida to Archive Historical Information. *The Florida Geographer*, **45**, 14–27 (This is very similar to the 2013 paper with some changes).
- **J.M. Collins**, B. Middlekauff and C. Paxton, 2014: Fort De Soto Park, and Mullet Key: Beach Processes, Management, and History. *The Florida Geographer*, **45**, 63–79.
- **Mazza Schoonard, C., J.M. Collins, C. Paxton** and C. Meindl, 2014: Explaining the Spatial Variability of Summer Rainfall in Pinellas County, Florida Using ArcGIS. *Physical Geography*, **35**, 107–122. <https://doi.org/10.1080/02723646.2014.895893>
- **Roberts, K., J.M. Collins, C. Paxton**, R. Hardy and J. Downs, 2014: Weather Patterns Associated with Green Turtle Hypothermic Stunning Events in St. Joseph Bay and Mosquito Lagoon, FL *Physical Geography*, **35**, 134–150. <https://doi.org/10.1080/02723646.2014.898573>
- **Collins, J.M.** 2014. “Climatology.” In Oxford Bibliographies in Geography. Ed. Barney Warf. New York: Oxford University Press. 1–20. <https://doi.org/10.1093/OBO/9780199874002-0096> While this bibliographic entry in an encyclopedia is not original research, I conducted extensive work for this 20-page document which was peer-reviewed.
- **Collins, J.M.** and P. Flaherty, 2013: NOAA Hurricane Hunters: A Historical and Mission Perspective. *The Florida Geographer*, **44**, 57–71. See above.
- **Collins, J.M., D.R. Roache, E.W. Kopp IV, D. Lunsford**, 2012: Analysis of Temperature Variability over Antarctica using the NCEP/NCAR Reanalysis. *Papers of the Applied Geography Conferences*, **35**, 412–420. See above 2015 chapter in Selected Readings in Applied Climatology.
- **Collins, J.M.**, 2011: Temperature Variability over Africa. *Journal of Climate*, **24**, 3649–3666.
- **Collins, J.M.** and **D.R. Roache**, 2011: The 2009 Hurricane Season in the Eastern North Pacific Basin: An Analysis of Environmental Conditions. *Monthly Weather Review*, **139**, 1673–1682.
- **Collins, J.M.** and **D.R. Roache**, 2010: The Inactive 2009 Hurricane Season in the North Atlantic Basin: An Analysis of Environmental Conditions. The National Weather Association’s *National Weather Digest*, **34**, 117–128.
- **Collins, J.M.**, 2010: Contrasting High North-East Pacific Tropical Cyclone Activity with Low North Atlantic Activity. *Southeastern Geographer*, **50**, 83–98.
- **Collins, J.M., C.H. Paxton** and **A.N. Williams**, 2009: Precursors to Southwest Florida Warm Season Tornado Development. National Weather Association’s *Electronic Journal of Operational Meteorology*, **EJ12**.
- **Collins, J.M.**, R. Rodrigues Chaves and V. da Silva Marques, 2009: Temperature Variability in South America between 1948–2007. *Journal of Climate*, **22**, 5854–5869.
- **Collins, J.M., A.N. Williams, C.H. Paxton**, R.J. Davis and N.M. Petro, 2009: Geographical, Meteorological, and Climatological Conditions Surrounding the 2008 Interstate-4 Disaster in Florida. *Papers of the Applied Geography Conferences*, **32**, 153–162.

- **Sullivan, J.** and **J.M. Collins**, 2009: The Use of Low Cost Data Logging Temperature Sensors in the Evaluation of an Urban Heat Island in Tampa, Florida. *Papers of the Applied Geography Conferences*, **32**, 252–261.
- **Collins, J.M.**, 2008: Coming to America: Challenges Facing Faculty Coming to United States' Universities and an Assessment of the Opportunities for New Academics. *Journal of Geography in Higher Education*, **32**, 179–188.
- **Collins, J.M.**, 2007: The Relationship of ENSO and Relative Humidity to Interannual Variations of Hurricane Frequency in the North-East Pacific Ocean. *Papers of the Applied Geography Conferences*, **30**, 324–333.
- **Hinkel, D.M.** and **J.M. Collins**, 2007: Assessment of Hurricane Vulnerable Populations in Ybor City, Tampa, Florida. *Papers of the Applied Geography Conferences*, **30**, 307–313.
- **Collins, J.M.** and I.M. Mason, 2003: Seasonal Environmental Conditions Related to Hurricane Activity in the North East Pacific Basin. *New England St. Lawrence Valley Geographical Society Proceedings*, **33**, 44–50.
- **Collins, J.M.** and I.M. Mason, 2000: Local Environmental Conditions Related to Seasonal Tropical Cyclone Activity in the NE Pacific basin. *Geophysical Research Letters*, **27**, 3881–3884.

#### SUBMITTED PUBLICATIONS

- **Zhu, Y.J., J.M. Collins, P. Klotzbach**, Spatial Variations of North Atlantic Landfalling Tropical Cyclone Wind Speed Decay over the Continental United States. Submitted to *Journal of Applied Meteorology and Climatology* (August, 2020).
- **Collins, J.M., A. Polen, I. Jernigan\*, D. Colón-Burgos\*, K. McSweeney\*, M. Spandri\***. An Analysis of the Success of Virtual *Research Experience for Undergraduates* Programs in Light of the COVID-19 Pandemic. Submitted to *BAMS* (February, 2021).
- Klotzbach, P., K. Wood, M. Bell, E. Blake, S. Bowen, L.P. Caron, **J.M. Collins**, E. Gibney, C. Schreck, R. Truchelut. A Hyperactive End to the Atlantic Hurricane Season: October–November 2020. Submitted to *Bulletin of the American Meteorological Society* (February, 2021)

#### EDITORIALLY REVIEWED PUBLICATIONS

- **Collins, J.M.**, R. Ersing, **A. Polen**, and **M. Saunders**, Do We Stay or Do We Go? How Social Networks Contribute to Evacuation Decision-Making. *Disaster Research* 679, Feb, 2018.
- Caron, L.P., **C. A. Mehta, J. M. Collins**, A. Daloz, April 2016 (Submitted to the *WGNE Blue Book*): Prospects of Hurricane Variability Analysis in Dynamically Downscaled Tropical Cyclone Simulations. WGNE is supported by the World Meteorological Programme (WMO) World Weather Research Programme (WWRP), WMO Global Atmosphere Watch Programme (GAW) and has research links to operational weather and climate prediction.
- **Collins, J.M.** and P. Flaherty, 2014: Keeping an 'Eye' on Tropical Research Data. *National Weather Association Newsletter*, **14**, 1&6.
- Lazarus, S, **J.M. Collins**, M.A. Baxter, A. T. Case Hanks, T. M. Whittaker; K. R. Tyle; S. F. Cecelski; B. Geerts; M. K. Ramamurthy, Ph. D 2012: 2012 Unidata Users Workshop Navigating Earth System Science Data. *Bulletin of the American Meteorological Society*, **94**, ES136–ES143. <http://dx.doi.org/10.1175/BAMS-D-12-00214.1>
- **Collins, J.M.**, 2010: Temperature Variability over Africa. *CLIVAR Exchanges*, **15**, 20-22.

- Rodrigues Chaves, R., **J.M. Collins** and V. da Silva Marques, 2008: Summertime Temperature Variability in South America between 1948-2007. *CLIVAR Exchanges*, **13**, 19–23.

## OTHER BOOK CONTRIBUTIONS

- **Collins, J.M.**, 2012: Web Quizzing (15 chapters) for *Meteorology Today* by Ahrens, Cengage Learning. Editorially reviewed.

## AMERICAN METEOROLOGICAL SOCIETY (AMS) CHAPTER MEETING PUBLICATIONS

**These are publications chosen by the editors of the *Bulletin of the American Meteorological Society* who consider submissions from all chapters of the American Meteorological Society across the nation. Typically, only one article is chosen per issue (with some issues having none chosen). They are articles written by me about research presented during the West Central Florida American Meteorological Society Chapter meetings. Editorially reviewed.**

- **Roache, D., **J.M. Collins**, **C. Mazza**** and M. Bolton, 2012: Rainfall and Severe Weather Influences in Pinellas County, Florida. *Bulletin of the American Meteorological Society* (Chapter Channel section), **93**, 603–605.
- **Collins, J.M.**, 2009: Disaster Preparation, Response, and Recovery Using GPS-Enabled Cell Phones. *Bulletin of the American Meteorological Society* (Chapter Channel section), **90**, 923–924.
- **Collins, J.M.**, 2009: Utilizing Geographic Techniques to Investigate the Spatial Properties of the Rain Fields of Tropical Cyclones. *Bulletin of the American Meteorological Society* (Chapter Channel section), **90**, 600.
- **Collins, J.M.**, 2008: Radar Analysis Using GR2Analyst. *Bulletin of the American Meteorological Society* (Chapter Channel section), **89**, 21–22.
- **Collins, J.M.**, 2008: Cool Season Heavy Rainfall Events over West Central Florida. *Bulletin of the American Meteorological Society* (Chapter Channel section), **89**, 155–156.

## OTHER PUBLICATIONS

- **Collins, J.M.**, 2016: Poster Madness. *The Voices*, 4 (1), p 6,9. University of South Florida publication.
- **Collins, J.M.**, 2014: Organizing a Study Abroad Trip – A Faculty Perspective. *The Voices*, 2, (1), p 7. University of South Florida publication.
- **Hussein, S., **J.M. Collins**** and B. Austin 2014: Family Activities in Tampa. Association of American Geographers Newsletter, March 14 (4 pages).
- **Collins, J.M.** and C. Matyas 2013: I'll Follow the Sun ... to Tampa. Association of American Geographers Newsletter, Sept 4 (2 pages).
- **Collins, J.M.**, K.Foote and B. Middlekauff, 2012: Improving AAG Regional Division Meetings. Association of American Geographers Newsletter 47 (p. 12–13).

- **Paxton, C.H., C.A. Mazza and J.M. Collins**, 2011: Interrelationships among Wind Direction, Atmospheric Moisture Content and Stability with the Spatial Distribution of Rainfall and the Occurrence of Severe Weather in Pinellas County, FL. 91<sup>st</sup> American Meteorological Society Annual Meeting. 23–27 January 2011, Seattle, Washington (4 pages).
- **Paxton, C.H., T.P. Barron, J.M. Collins and N. Weis**, 2011, Evolution of the Atmosphere during Hail Events over Central Florida. 91<sup>st</sup> American Meteorological Society Annual Meeting. 23–27 January 2011, Seattle, Washington (4 pages).
- **Collins, J.M.** and B. Carstensen, 2010, World Geography Bowl in Knoxville, South-eastern Division of the Association of American Geographers Newsletter, 29 (p. 3–4)
- **Paxton, C.H., J.M. Collins, C.N. Carlisle, and A.N. Williams**, 2010: Modeling Southwest Florida Tornadoes, 22nd Conference on Climate Variability and Change, American Meteorological Society. 17–21 January 2010, Atlanta, Georgia. P2.15 (4 pages).
- **Paxton, C.H., J.M. Collins, K.J. Pugh**, and J. Colson, 2010: A Digital Archive of Significant West Central and Southwest Florida Weather Events to Improve the Public's Response to Future Warnings, 19th Symposium on Education, American Meteorological Society. 17–22 January 2010, Atlanta, Georgia. P1.28 (4 pages).
- **Collins, J.M.**, C.H. Paxton, R.J. Davis and N. Petro, 2008: Central Florida Super Fog - Carnage on Interstate -4. The Symposium on Urban High Impact Weather, American Meteorological Society, January 2009, Phoenix, Arizona. P1.11 (4 pages).
- **Collins, J.M.**, C.H. Paxton, D.G. Noah and **A.N. Williams**, 2008: Southwest Florida Warm Season Tornado Development. The Symposium on Urban High Impact Weather, American Meteorological Society, January 2009, Phoenix, Arizona. JP2.11 (4 pages).
- Rodrigues Chaves, R., **J.M. Collins** and V. da Silva Marques, 2008: Summertime Temperature Variability in South America between 1948-2007. SBMET (published on CD – no page numbers, 5 pages).
- Rodrigues Chaves, R., **J.M. Collins**, **K. Pugh**, V. da Silva Marques, 2008: Wintertime Temperature Variability in South America between 1948-2007. In: EOS Trans. AGU, 89(23), Jt. Assem. Suppl., #785.
- **Collins, J.M.**, 2006: England, Great Britain, United Kingdom - What's the Difference? Association of American Geographers Newsletter (p.18).
- Ryan, S. and **J.M. Collins**, 2005: Travel Experiences as Part of the Post Secondary Curriculum at Rural Post Secondary Institutions. 36<sup>th</sup> Travel and Tourism Research Association (US) Conference. New Orleans, La. Editors R. Neil Moisey, Nancy G. McGehee (4 pages).
- **Collins, J.M.**, 2004: Who Wants to be a Millionaire? An Educational Game for Learning Enhancement. Teaching and Learning Enhancement Center's Innovative Teaching Ideas, Bloomsburg University (p. 2–4).
- **Collins, J.M.** and I.M. Mason, 2002: Seasonal Environmental Conditions Related to Tropical Cyclone Activity in the NE Pacific Basin. American Meteorological Society Conference. San Diego, California (p. 146–147).
- **Collins, J.M.**, 2000: Local Environmental Conditions Related to Seasonal Hurricane Activity in the NE Pacific basin. 24<sup>th</sup> Conference on Hurricanes and Tropical Meteorology. Fort Lauderdale, Florida (p. 19–20).
- **Collins, J.M.**, M.A. Saunders and J.A.G. Mansley, 1998: Environmental Conditions Affecting Seasonal Hurricane Activity in the Northeast Pacific 1972-1997. 23<sup>rd</sup> Conference on Hurricanes and Tropical Meteorology. Dallas, Texas (p. 276–277).



## REPORTS

- Collins, J.M., E. Dunn, A. Polen, M. Welford, Lackovic, K. McSweeney, and I. Jernigan, 2020. Hurricane Decision Making in the Age of COVID-19: Hurricanes Laura and Sally.
- Collins, J.M., A. Polen, K. McSweeney, D. Colón-Burgos, I. Jernigan, 2020. Hurricane Decision Making in the Age of COVID-19.
- Ersing, R., B. Ward, J. Collins, S. Hampton, P. Jasper, C. Krystad, M. Saunders, L. Carter, 2019. Social Networks in Hurricane Preparedness Planning: A Study of Public Housing Residents. Preliminary Technical Report for Tampa Housing Authority.

## OTHER MANUSCRIPTS/REPORTS (not published)

- “Chapter of the year” report, AMS

**These are three-page reports on the achievements of the West Central Florida Chapter of the American Meteorological Society, specifically discussing what the Chapter has done for its members, the community and the national members of the AMS. Our chapter was selected for the Chapter of the Year in 2015-2016, 2014-2015, and 2011-2012 and on the honor roll for 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2012-2013, 2013-2014.**

- **Collins, J.M., M. Saunders**, and D. Feller, 2017: American Meteorological Society, Chapter of the Year Application, 2016-2017.
  - **Collins, J.M., M. Saunders**, and D. Feller, 2016: American Meteorological Society, Chapter of the Year Application, 2015-2016.
  - **Collins, J.M., R. Hergert**, and **H. Key**, 2015: American Meteorological Society, Chapter of the Year Application, 2014-2015.
  - **Collins, J.M.** and **L. Rice**, 2014: American Meteorological Society, Chapter of the Year Application, 2013-2014.
  - **Collins, J.M.** and **J. Hartnett**, 2013: American Meteorological Society, Chapter of the Year Application, 2012-2013.
  - **Roache, D.** and **J.M. Collins**, 2012: American Meteorological Society, Chapter of the Year Application, 2011-2012.
  - **Collins, J.M.** and N. Carlisle, 2011: American Meteorological Society, Chapter of the Year Application, 2010-2011.
  - **Collins, J.M.** and **A.N. Williams**, 2010: American Meteorological Society, Chapter of the Year Application, 2009-2010.
  - **Collins, J.M.**, 2009: American Meteorological Society, Chapter of the Year Application, 2008-2009.
  - **Collins, J.M.**, 2008: American Meteorological Society, Chapter of the Year Application, 2007-2008.
- West Central Florida Chapter of The American Meteorological Society (WCFLAMS) Articles

**These are articles written by me (more recently also with co-authors) about presentations given by others for members of the West Central Florida Chapter of the American Meteorological Society (WCFLAMS). These articles were published online on the national**

AMS webpage and the West Central Florida Chapter of the AMS webpage, respectively (<http://www.ametsoc.org/amschaps/news.html>) and (<http://www.wcflams.org>). In addition, these were considered with all chapter web articles from around the nation for possible inclusion in the *Bulletin of the American Meteorological Society*. Five of these were published (see Page 3).

- **Hartnett J.J. and J.M. Collins**, 2013 (April): WCFLAMS Annual Banquet and Presentation on “Hurricane Probability in Tampa”
- **Hartnett J.J., K. Roberts and J.M. Collins**, 2013 (March): Towards Building and Implementing a Regional Coastal Ocean Observing System (RCOOS) for the Southeast Region of the US
- **Hartnett J.J. and J.M. Collins**, 2013 (February): Panel of Broadcasters
- **Roache D.R., J.J. Hartnett and J.M. Collins**, 2012 (February): Communicating Storm Surge Risk
- **Roache D.R., J.M. Collins and M. Bolton**, 2012 (January): The Influence of Meteorological Parameters on Rainfall and Severe Weather in Pinellas County, FL
- **Collins, J.M., D. R. Roache and M. Bolton**, 2011 (November): Analysing the Variability of Atlantic Tropical Cyclone Activity during ENSO Neutral Conditions
- **Collins, J.M.**, 2011 (October): Hillsborough County Middle/High School Teacher Workshop
- **Collins, J.M., D. R. Roache and M. Bolton**, 2011 (September): Broadcast Panel of Meteorologists
- **Carlisle, N. and J.M. Collins**, 2011 (April): Urban Effects on Precipitation, Storms, and Flooding
- **Carlisle, N. and J.M. Collins**, 2011 (March): NWS Incident Meteorology and Decision Support services
- **Carlisle, N. and J.M. Collins**, 2011 (February): Hurricanes and Climate Change: Expectations versus Observations
- **Carlisle, N. and J.M. Collins**, 2011 (January): On the Increasing Intensity of the Strongest Hurricanes
- **Collins, J.M.**, 2010 (March): “Teach the Teacher” Workshop
- **Collins, J.M.**, 2009 (April): Forensic Meteorology: All in a Week’s Work
- **Collins, J.M.**, 2009 (March): Disaster Preparation Response and Recovery using GPS-Enabled Cell Phones
- **Collins, J.M.**, 2009 (February): Central Florida Smoke and Fog – Carnage on Interstate 4 and Southwest Florida Warm Season Tornado Development
- **Collins, J.M.**, 2009 (January): High Altitude Balloon Launch
- **Collins, J.M.**, 2008 (November): Florida Coastal Ocean Observing Systems
- **Collins, J.M.**, 2008 (October): Insurance and Weather Hazards
- **Collins, J.M.**, 2008 (September): Utilizing Geographic Techniques to Investigate the Spatial Properties of the Rain Fields of Tropical Cyclones
- **Collins, J.M.**, 2008 (April): The National Weather Service
- **Collins, J.M.**, 2008 (March): Hurricane Hunters
- **Collins, J.M.**, 2008 (February): “Teach the Teacher” Workshop
- **Collins, J.M.**, 2008 (January): Polar Orbiting Weather Satellites

- **Collins, J.M.**, 2007 (November): Radar Analysis Using GR2Analyst
- **Collins, J.M.**, 2007 (October): Cool Season Heavy Rainfall Events Over West Central Florida
- Chairs Report for the Education Committee, Southeastern Division of the Association of American Geographers (SEDAAG).
- Southeastern Division of the Association of American Geographers (SEDAAG) papers

**These are unpublished articles submitted in order to present at the (SEDAAG) conference**

- **Paxton, C.H.** and **J.M. Collins**, Weather Patterns Associated with Rip Currents in the Contiguous United States Coastal Ocean Areas. Paper submitted (8/20/10) for the Annual Meeting of the Southeastern Division of the Association of American Geographers, Birmingham, Alabama, November 2010, 20 pages.
- **Roache, D.R.** and **J.M. Collins**, The Inactive 2009 Hurricane Season in the North Atlantic Basin: An Analysis of Environmental Conditions. Paper submitted (8/20/10) for the Annual Meeting of the Southeastern Division of the Association of American Geographers, Birmingham, Alabama, November 2010, 20 pages.
- **Roache, D.R.**, **J.M. Collins** and T.R. Boucher, Seasonal Change in ENSO Region Sea Surface Temperature Anomalies and Atlantic Tropical Cyclone Activity. Paper submitted for the Annual Meeting of the Southeastern Division of the Association of American Geographers, Knoxville, Tennessee, November 2009, 20 pages.
- **Paxton, C.H.**, **J.M. Collins** and **A.N. Williams**, Precursors to Southwest Florida Tornado Development. Annual Meeting of the Southeastern Division of the Association of American Geographers (SEDAAG), Knoxville, Tennessee, November 2009, 20 pages.
- **Williams, A.N.** and **J.M. Collins**, Florida Super Fog - Carnage on Interstate 4. Annual Meeting of the Southeastern Division of the Association of American Geographers, Greensboro, North Carolina, November 2008, 2 pages.
- **Collins, J.M.** and **D.M. Hinkel**, Hurricane Vulnerability of People in Ybor City, Tampa (FL). Annual Meeting of the Southeastern Division of the Association of American Geographers, Charleston, South Carolina, November 2007, 2 pages.
- **Collins, J.M.**, **D.M. Hinkel** and N. Yavneh, Hurricane REU: Experiential Learning for Undergraduate Students. Annual Meeting of the Southeastern Division of the Association of American Geographers, Morgantown, West Virginia, November 2006, 2 pages.

## **GRANTS AND AWARDS RECEIVED**

### **External to University**

PI: J.M. Collins, M. Welford, E. Dunn, and A. Polen

Title: RAPID: Hurricane Evacuations in the Age of COVID-19

Agency: NSF BCS Human-Environment and Geographical Sciences Program

Project dates: 9/15/2020 to 8/31/2021

Amount funded: \$78,821

**This project will involve numerous graduate and undergraduate students.**

PI: P. Van Beynen and J.M. Collins

Title: REU Site Proposal: Water Sustainability in the Environment: Improving the Sustainable use of Water through Interdisciplinary Research.

Agency: NSF EAR

Project dates: 09/01/2020 - 08/31/2023

Amount funded: \$422,380

REFEREED

**This project will involve numerous graduate and undergraduate students.**

PI: J.Senkbeil, J.M. Collins, and R. Ersing

Project/Proposal Title: Social and geophysical influences on evacuation decision making for Hurricane Irma.

Agency: NSF, GSS RAPID

Project dates: 9/13/2017 – 8/12/2018

Amount funded: \$39,111 (USF share: \$16,826)

**This project involved numerous graduate and undergraduate students.**

PI: J.M. Collins and R. Ersing

Project/Proposal Title: Evacuation behavior measured during an evacuation order: An assessment of the effects of social connections on peoples' decision to evacuate

Agency: Natural Hazards Center's Quick Response Program

Project dates: 8/15/16 - 6/14/17

Amount funded: \$2,253

**This project involved numerous graduate and undergraduate students.**

PI: J. Muller and J.M. Collins

Project/Proposal Title: A multistep method for extending the hurricane record back in time to obtain more representative return period calculations for East Florida coastal communities.

Agency: Florida Sea Grant

Project dates: 2/1/18 – 1/31/21

Amount Requested: \$193,061 (USF portion: \$91,074)

REFEREED

**This project involved numerous graduate and undergraduate students.**

PIs: J.M. Collins and R. Ersing

Title: REU Site Proposal: Weather, Climate and Society: An Interdisciplinary Approach Integrating Physical and Social Sciences

Agency: NSF, AGS

Project dates: 9/1/2017-8/31/2020

Amount funded: \$447,490

REFEREED

**This project involved numerous graduate and undergraduate students.**

PI: J.M. Collins

Co-PI: R. Ersing

Title: Evacuation Behavior Measured at Time of Expected Hurricane Landfall: An Assessment of the Effects of Social Networks

Agency: Natural Hazards Center's Quick Response Program

Project dates: 8/15/16 - 6/14/17

Amount funded: \$3,000 (Note: this is the maximum that can be awarded for what they call an “exceptional” proposal). Only claimed \$747 of actual expenses.

REFEREED

**This project involved numerous graduate and undergraduate students.**

PI: J.M. Collins

Title: Hurricanes and Climate Change

Agency: NSF, AGS

Project dates: 06/1/2015 – 12/31/2015

Amount funded: \$20,000

**This project funded numerous graduate and undergraduate students.**

PI: J.M. Collins

Title: Newell Seminar Speaker

Agency: Florida Sea Grant

Project dates: 01/15/2015 – 5/31/2015

Amount funded: \$1,000

PI: J.M. Collins

Title: COLLABORATIVE: RUI: Reconstructing the History of Hurricane Landfalls in Southwest Florida over the Past Five Thousand Years. SUPPLEMENTAL.

Agency: NSF, OCE

Project dates: 06/01/2014 – 05/31/2015

Amount funded: \$15,000

REFEREED

**This project involved numerous graduate and undergraduate students.**

PI: J.M. Collins

Title: Environmental Weather Workshop for Teachers

Agency: Tampa Bay Estuary

Project dates: 1/1/2014-12/30/2014

Amount funded: \$5,000

**This project involved numerous graduate and undergraduate students.**

PIs: J.M. Collins and J. Muller

Title: COLLABORATIVE: RUI: Reconstructing the History of Hurricane Landfalls in Southwest Florida over the Past Five Thousand Years

Agency: NSF, OCE

Project dates: 09/15/2013 – 08/14/2015 (extended to 6/30/2017)

Amount funded: \$159,504 (USF: \$74,545)

REFEREED

**This project involved numerous graduate and undergraduate students.**

PIs: I. Sears, J.M. Collins

Co-PI: C.H. Paxton, J. Passman, P. Flaherty, R. Henning

Title: A 20<sup>th</sup> Anniversary Commemoration and Tropical Cyclone Retrospective of Tampa Bay

Agency: National Oceanic and Atmospheric Administration (NOAA) PAIG Program

Project dates: 8/10/13 - 12/31/14

Amount funded: \$12,000

REFEREED

**This project involved two undergraduate students.**

PI: J.M. Collins

Title: Professional Development of Students by Engaging Department Alumni

Agency: AAG EDGE

Project dates: 9/1/12 - 5/31/13

Amount funded: \$500

PI: J.M. Collins

Co-PI: C. Paxton

Title: Atmosphere and Ocean Conditions Associated with U.S. Rip Current Rescues and/or Drownings

Agency: University Corporation for Atmospheric Research (UCAR), COMET Partners

Project dates: 1/1/12 - 9/30/13

Amount funded: \$2,118 (maximum available)

REFEREED

**This project involved an undergraduate student.**

PI: J.M. Collins

Co-PIs: D. Roache and C. Paxton

Title: Upgrading Meteorological Analysis and Visualization Capability - Unidata Community Equipment Grant

Agency: University Corporation for Atmospheric Research (UCAR) UNIDATA, sponsored by NSF

Project dates: 5/1/11 - 6/30/12

Amount funded: \$9,016 (An additional amount awarded in Aug 2013 making the total \$15,888)

REFEREED

**This project involved a graduate student.**

PI: J.M. Collins, R. Hart, and Q. Xiao

Co-PI: R. Weisberg, E. Chassignet, FSU, M. Bourassa, C. Clayson, S. Morey, D. Dukhovskoy, S. Shin

Title: Tackling Florida's Growing Geophysical Threats through Collaborative Coupled Modeling

Agency: State University System of Florida

Project dates: 01/12/10-31/12/13

Amount funded: \$300,000 (\$100,000 to USF)

REFEREED (by the Board of Governors of SUS)

**This project involved a post-doc.**

PI: J.M. Collins

Co-PI: C.H. Paxton

Title: A Warning System for Considering Social Characteristics of Population at Risk

Agency: University Corporation for Atmospheric Research (UCAR), COMET Partners

Project dates: 06/01/10 - 05/31/11

Amount funded: \$15,000

REFEREED (Note: this is the maximum that has been awarded for the COMET Partners program and UCAR raised the limit from the previous maximum for our project)

**This project involved two undergraduate students.**

PI: J.M. Collins

Co-PI: C.H. Paxton

Title: Meteorological Conditions Influencing Sea Breeze Convergence and Resulting Rainfall Patterns and Hazards in Pinellas County, FL

Agency: University Corporation for Atmospheric Research (UCAR), COMET Partners

Project dates: 06/01/10 - 05/31/11

Amount funded: \$11,353

REFEREED

**This project involved an undergraduate student.**

PI: J.M. Collins

Co-PI: R. Ersing

Title: Evacuation Behavior Measured at Time of Expected Hurricane Landfall: An Assessment of the Effects of Social Networks

Agency: Natural Hazards Center's Quick Response Program

Project dates: 5/1/10 - 12/31/10

**This project involved numerous graduate and undergraduate students.**

Amount funded: \$3,000 (Note: this is the maximum that can be awarded for what they call an "exceptional" proposal). This funding was offered but not used since we did not have a landfalling hurricane at this time. I later reapplied and received the funding in 2016.

REFEREED

PI: C.H. Paxton

Co-PI: J.M. Collins

Title: Tampa Bay Weather History

Agency: National Oceanic and Atmospheric Administration (NOAA) PAIG Program

Project dates: 8/10/09 - 12/31/09

Amount funded: \$7,500

REFEREED

**This project involved numerous graduate and undergraduate students.**

PI: J.M. Collins

Co-PI: R. Ersing

Title: Evacuation Behavior Measured at Time of Expected Hurricane Landfall: An Assessment of the Effects of Social Networks

Agency: Natural Hazards Center's Quick Response Program

Project dates: 3/1/09 - 12/31/09

Amount funded: \$3,000 (not used since no hurricane evacuation was ordered in Florida in 2009)

REFEREED

PI: J.M. Collins

Co-PI: D.G. Noah

Title: Meteorological Conditions Surrounding Two Florida Tornadoes and Implications for Future Forecasting

Agency: University Corporation for Atmospheric Research (UCAR), COMET Partners

Project dates: 1/1/08 - 4/30/08

Amount funded: \$4,781

REFEREED

**This project involved an undergraduate student.**

PI: J.M. Collins

Title: Enrichment Award towards Sessions for International Faculty at San Francisco AAG, 2007

Agency: Association of American Geographers (AAG)

Project dates: 4/15/07

Amount funded: \$500

REFEREED

PI: J.M. Collins

Title: PhD, Department of Climate Physics, UCL

Agency: Natural Environment Research Council (NERC)

Project dates: 1997 - 2000

Amount funded: \$32,000

REFEREED

**Note: UCAR/COMET grants are collaborative efforts with local National Weather Service Forecast Offices. The review process for UCAR/COMET grants consists of a review at the weather service office regional headquarters. If the NWS Regional Director endorses the proposed project, it is then submitted to UCAR in Boulder, CO where a final review and selection takes place.**

**External to University: role as senior personnel**

PI: N. Yavneh

Co-PI: R. Ersing

(J. Collins, G. Tobin, M. Kusenbach, T. Mason and L. Brown - senior personnel)

Title: Social Aspects of Hurricanes: Preparation, Response and Recovery with Vulnerable Populations. Hurricane Research Experience for Undergraduates (REU) Program

Agency: National Science Foundation (NSF)

Project dates: 1/2/10 - 2/28/13

Amount funded: \$309,633

REFEREED

**This project involved numerous graduate and undergraduate students.**

PI: N. Yavneh

Co-PI: R. Ersing, G. Tobin, B. Ward, M. Kusenbach

(J. Collins major contributor and senior personnel)

Title: Social Aspects of Hurricanes: Preparation, Response and Recovery with Vulnerable Populations. Hurricane Research Experience for Undergraduates (REU) Program

Agency: National Science Foundation (NSF)

Project dates: 3/1/07 - 2/28/10

Amount funded: \$265,811

REFEREED

**This project involved numerous graduate and undergraduate students.**



**External to University: travel grants**

PI: J.M. Collins

Title: Attendance to Department Leadership Workshop

Agency: AAG ALIGNED Project

Project dates: 6/13/12 – 6/16/12

Amount funded: Travel stipend and registration

PI: J.M. Collins

Title: Attendance to NSF funded Atmospheric Science Collaborations and Enriching Networks (ASCENT) workshop

Agency: Desert Research Institute (DRI)

Project dates: 6/14/09 - 6/17/09

Amount funded: Travel stipend

REFEREED

PI: J.M. Collins

Title: 1<sup>st</sup> International Cyclone Meeting in Brazil (Invited Presenter)

Agency: FINEP (Brazilian Science Foundation), Brazil

Project dates: 5/19/08 - 5/21/08

Amount funded: Total travel and registration

PI: J.M. Collins

Title: Latin American Data Workshop, Brazil

Agency: University Corporation for Atmospheric Research (UCAR)/UNIDATA and UENF/LAMET, Brazil

Project dates: 8/21/08 - 8/23/08

Amount funded: Total travel

REFEREED

PI: J.M. Collins

Title: Early Career College and University Faculty Workshop

Agency: Geography Faculty Development Alliance (GFDA) funded by NSF

Project dates: 6/19/04 - 6/26/04

Amount funded: Total travel

REFEREED

PI: J.M. Collins

Title: Hurricanes at Landfall colloquium

Agency: Advanced Study Program of the National Center for Atmospheric Research

Project dates: 7/13/98 - 7/24/98

Amount funded: Total travel

REFEREED

**Internal to University**

PI: J.M. Collins

Title: Evacuation study

Agency: CAS Pilot program

Project dates: 6/1/17-5/31/17

Amount funded: \$5,000

PI: J.M. Collins

Title: Florida's Weather and Climate Book

Agency: University of South Florida, University Publications Council

Project dates: 4/23/14-7/31/15

Amount funded: \$750

PI: J.M. Collins

Title: Florida's Weather and Climate

Agency: University of South Florida, CAS Faculty Research and Development Grant

Project dates: 1/1/13-5/31/14

Amount funded: \$1,500

PI: J.M. Collins

Title: Hurricane Season 2011

Agency: University of South Florida, CAS Faculty Research and Development Grant

Project dates: 1/1/12-5/31/12

Amount funded: \$5,000

PI: Q. Xiao

Co-PIs: J.M. Collins and R. Weisberg

Title: Development of a Coupled Ocean-Atmosphere Forecasting System for Applications in the Tampa Bay Area

Agency: University of South Florida, Interdisciplinary Research Development Grant

Project dates: 06/01/11 - 05/31/12

Amount funded: \$20,000

PI: Q. Xiao

Co-PIs: J.M. Collins and R. Weisberg

Title: Development of a Coupled Ocean-Atmosphere Forecasting System for Applications in the Tampa Bay Area

Agency: University of South Florida, Interdisciplinary Research Development Grant

Project dates: 06/01/10 - 05/31/12

Amount funded: \$50,000

PI: J.M. Collins

Title: Weather Forecasting Conference

Agency: University of South Florida, Conference Coordination Grant

Project dates: 3/23/09

Amount funded: \$500

PI: J.M. Collins

Title: Applets for Teaching the Weather and Physical Geography

Agency: University of South Florida, CTE Innovative Teaching Opportunities

Project dates: 5/1/09 - 12/1/09

Amount funded: \$4,000

PI: J.M. Collins

Title: Central Florida Super Fog

Agency: University of South Florida, CAS Faculty Research and Development Grant

Project dates: 12/15/08 - 2/15/09

Amount funded: \$1,000

PI: J.M. Collins

Title: Teaching the Structure of Hurricanes and Tornadoes through State of the Art 3D Radar Analysis

Agency: University of South Florida, CTE Innovative Teaching Opportunities (iTOPP) Grant

Project dates: 9/1/07 - 5/1/08

Amount funded: \$2,000

PI: P. Reeder

Co-PI: J.M. Collins

Title: Recertifying a General Education Course in Physical Geography

Agency: University of South Florida, General Education Council Teaching Award

Project dates: Jan, 2007

Amount funded: \$1,500

PI: J.M. Collins

Title: Meteorological Understanding Gained Through "Hands On" Experiments

Agency: University of South Florida, CAS Faculty Research and Development Grant

Project dates: 1/1/06 - 4/30/06

Amount funded: \$980

PI: J.M. Collins

Title: Learning Weather through Different Media

Agency: University of South Florida, CTE Innovative Teaching Opportunities (iTOPP) Grant

Project dates: 5/1/06 - 8/7/06

Amount funded: \$8,838

PI: J.M. Collins

Title: Equipment for Hands-On Weather Experiments

Agency: University of South Florida, CTE Innovative Teaching Opportunities (iTOPP)

Project dates: 9/1/05 - 10/28/05

Amount funded: \$2,000

PI: J.M. Collins

Title: Teaching and Learning Enhancement Stipend to Develop a Workshop for International faculty

Agency: Bloomsburg University

Project dates: 4/1/05 - 5/31/05

Amount funded: \$250

**Internal to University: travel awards and non-peer reviewed grants**

PIs: J.M. Collins

Project/Proposal Title: 33<sup>rd</sup> Conference on Hurricanes and Tropical Meteorology.

Source of Support: USF NSF-STEER STEM ED travel grant  
Total Award Amount: \$1,000  
Total Award Period Covered: 16-20 June, 2018  
Location of Project: Ponte Verde, FL.

PIs: J.M. Collins  
Project/Proposal Title: Conference Support Grant  
Source of Support: USF Research and Innovation  
Total Award Amount: \$4,992  
Total Award Period Covered: 4-9 June, 2017  
Location of Project: Heraklion, Greece

PIs: J.M. Collins  
Project/Proposal Title: Faculty International Travel Grant (FITG)  
Source of Support: USF Research and Innovation  
Total Award Amount: \$2,500  
Total Award Period Covered: 4-9 June, 2017  
Location of Project: Heraklion, Greece

PIs: J.M. Collins  
Project/Proposal Title: Cas Internal Travel Award  
Source of Support: USF CAS  
Total Award Amount: \$1,500  
Total Award Period Covered: 4-9 June, 2017  
Location of Project: Heraklion, Greece

PIs: J.M. Collins  
Project/Proposal Title: Faculty International Travel Grant (FITG)  
Source of Support: USF  
Total Award Amount: \$2,147  
Total Award Period Covered: 18-22 June, 2016  
Location of Project: Puerto Rico

PIs: J.M. Collins  
Project/Proposal Title: Faculty International Travel Grant (FITG)  
Source of Support: USF Research and Innovation  
Total Award Amount: \$2,500  
Total Award Period Covered: 8-22 June, 2015  
Location of Project: Italy/Greece

PIs: J.M. Collins  
Project/Proposal Title: USF World Faculty Travel Mobility Grant Program  
Source of Support: USF World  
Total Award Amount: \$2,500  
Total Award Period Covered: 8-22 June, 2015  
Location of Project: Italy/Greece

PIs: J.M. Collins  
Project/Proposal Title: International Travel for Invited Speaking Engagements  
Source of Support: USF CAS  
Total Award Amount: \$1,500  
Total Award Period Covered: 8-22 June, 2015  
Location of Project: Italy/Greece

PI: J.M. Collins  
Title: Study Abroad: Physical Geography and Environmental Science of the UK  
Agency: University of South Florida, Office of Undergraduate Research  
Project Dates: 3/18/2013-12/31/2013  
Amount funded: \$2,500

PI: J.M. Collins  
Title: European Geophysical Union Conference, Vienna  
Agency: University of South Florida, CAS Faculty International Travel Grant  
Project Dates: 4/22/2012-4/30/12  
Amount funded: \$2,000

PI: J.M. Collins  
Title: Weather Station Equipment  
Agency: News and Digital Media, USF  
Project Dates: 8/7/2011-2/28/12  
Amount funded: \$2,000

PI: J.M. Collins  
Title: Graduate School Recruitment  
Agency: University of South Florida, Graduate school  
Project Dates: 1/1/12-5/31/12  
Amount funded: \$1,250

PI: J. Ryan and A. Feldman  
Title: Coastal Areas Climate Change Education Partnership  
Agency: National Science Foundation  
Project Dates: 6/1/11-5/31/13  
Amount funded: \$9,000 (provided to me by Dr. Allen Feldman for my role as lead on a Multiple Outcome Interdisciplinary Research and Learning (MOIRL) pilot project).

PI: J.M. Collins  
Title: Graduate School Recruitment  
Agency: University of South Florida, Graduate school  
Project Dates: 1/1/11-5/31/11  
Amount funded: \$2,600

PI: J.M. Collins  
Title: Travel to present on the Hurricane Vulnerable Populations in Ybor City, Association of American Geographers Conference, Boston, Massachusetts  
Agency: University of South Florida, Dr. Kiran C. Patel Center for Global Solutions

Project dates: 4/14/08 - 4/19/08

Amount funded: \$1,000

PI: J.M. Collins

Title: Travel to present on the NSF funded Hurricane Research Experience for Undergraduates (REU) Program at the Southeastern Division of the Association of American Geographers Conference, Morgantown, West Virginia

Agency: University of South Florida, Dr. Kiran C. Patel Center for Global Solutions

Project dates: 4/14/08 - 4/19/08

Amount funded: \$500

## **GRANTS SUBMITTED**

### **External to University**

PI: J.M. Collins, J. Vigh, L. Myrers

Title: An Integrated Social Science and Risk Tool for Understanding Hurricane Risk Perceptions Across Diverse Coastal Communities

Agency: NOAA/OAR/WPO/Social, Behavioral, and Economic Sciences Competition

Project dates: 05/1/21 - 04/30/23

Amount requested: \$458,683

PI: J.M. Collins and R. Ersing

Title: REU Site Proposal: Weather, Climate and Society: An interdisciplinary approach integrating physical and social sciences

Agency: NSF

Project dates: 05/21 - 04//26

Amount requested: \$893,984

## **PAPERS PRESENTED – ACADEMIC MEETINGS**

First person listed was the presenter unless stated otherwise

### **International**

- Collins, J.M. and D. Roache, **The 2016 North Atlantic Hurricane Season: A Season of Extremes. 6<sup>th</sup> International Hurricane Summit on Hurricanes and Climate Change. June 2017 Co-organizer and speaker.**
- Saunders, M., J.M. Collins, R. Ersing, A. Polen, and N. Rehm, Evacuation behavior measured at time of expected hurricane landfall: A spatial analysis of social networks. 6<sup>th</sup> International Hurricane Summit on Hurricanes and Climate Change. June 2017.
- Polen, A., J.M. Collins, R. Ersing, Saunders, M., and N. Rehm, Evacuation behavior measured at time of expected hurricane landfall: An assessment of the effects of social networks. 6<sup>th</sup> International Hurricane Summit on Hurricanes and Climate Change. June 2017.
- Paxton, C., J.M. Collins, C. Jordon, A. Polen, and A. Agastra, Potential hurricane damage estimates to urban and ecosystem environments along Florida's west coast. 6<sup>th</sup> International Hurricane Summit on Hurricanes and Climate Change. June 2017.

- Muller, J. and J.M. Collins, What we have learned from, and looking forward in, the field of *Paleotempestology*. 6<sup>th</sup> International Hurricane Summit on Hurricanes and Climate Change. June 2017.
- Muller, J., J.M. Collins, C. Ercolani, S. Ellis, T. Ingalsbe, Intense Southwest Florida Hurricane Strikes over the Past 1 Thousand Years (C06-P26). XIX International Union for Quaternary Research, Nagoya, Japan, 2015.
- Ellis, S., J. Muller, **J.M. Collins**, C. Ercolani, T. Ingalsbe, Reconstructing the Last 150 years of Southwest Florida Hurricane Activity using Lagoonal Sediments, (C06-P34) XIX International Union for Quaternary Research, Nagoya, Japan, 2015.
- **Paxton, L., J.M. Collins**, J. Muller, and C. Paxton, Southwest Florida Paleotempestology Records. 5th International Hurricane Summit on Hurricanes and Climate Change, Greece, June 2015.
- **Collins, J.M. and D.R. Roache**, 2011 Hurricane Season – A Comparison with Climatology and Intraseasonal Variability. European Geophysical Union, Vienna, 2012.
- **Paxton, C.P. and J.M. Collins**, Analysis of Climate Indices Associated with Hurricanes Making Landfall in the U.S. during 1951-2010. 3<sup>rd</sup> International Hurricane Summit on Hurricanes and Climate Change, Rhodes, Greece, June 2011 (co-presented).
- **Collins, J.M.**, R. Rodrigues, V. Silva Marques and K. Pugh, Temperature Variability in South America between 1948-2007. Latin American Data Workshop, Sao Paulo, Brazil, August 2008 **(INVITED)**
- **Collins, J.M.**, 2008: Factors that Influence the Interannual Variability of Hurricane Frequency in the NE Pacific. 1<sup>st</sup> International Cyclone Meeting. Rio de Janeiro, Brazil, May 2008 **(INVITED)**
- Ryan, S. and **J.M. Collins**, “Travel Experiences as Part of the Post Secondary Curriculum” in Measuring the Tourism Experience: When Experience Rules, What is the Metric of Success? Travel and Tourism Research Association 35th Annual Conference Proceedings. Montreal, Quebec, Canada, 2004

## **National**

- Vigh, J. and Collaborators (inc. **J.M. Collins**). Updates on the Hurricane Risk Calculator: Mobile App Design and Risk Messaging. 34th Conference on Hurricanes and Tropical Meteorology, New Orleans, May 2020.
- **Collins, J.M.**, R. Ersing, A. Polen, M. Saunders, and J. Senkbeil, Hurricane Irma: A Study on Evacuation Decision and Social Connectedness. 33<sup>rd</sup> Conference on Hurricanes and Tropical Meteorology. Ponte Vedra, Florida, April 2018.
- **Collins, J.M.** and R. Ersing. Evacuation behavior measured at time of expected hurricane landfall: An assessment of the effects of social networks. 2017 Annual Meeting of the Association of American Geographers, Boston, MA April 4-9, 2017.
- **Saunders, M., K. Ash\*** and **J.M. Collins**. Public Understanding and Use of Weather Radar. 2016 Annual Meeting of the Association of American Geographers, San Francisco, CA March 29-April 2, 2016.

- **Collins, J.M.**, C.A. Mehta, **D. Roache** and C. Paxton, 2015 Eastern North Pacific Hurricane season. 32nd Conference on Hurricanes and Tropical Meteorology, San Juan, Puerto Rico, April, 2016.
- **Hergert, R.**, J.M. Collins, J. Dunion, C. Paxton, Saharan Air Layer Dust Loading: Effects on Convective Strength in Tropical Cloud Clusters, 32nd Conference on Hurricanes and Tropical Meteorology, San Juan, Puerto Rico, April, 2016.
- Muller, J., **J.M. Collins**, **C. Ercolani**, S. Ellis, and C. Paxton. Millennial Scale Hurricane Activity along the Southwest Florida Coastline. 2016 Annual Meeting of the Association of American Geographers, San Francisco, CA March 29-April 2, 2016.
- Ellis, S, J. Muller, **J.M. Collins**, and **C. Ercolani**. A Modern Holocene Paleo-hurricane reconstruction record of SWFL using Storm Deposits. 2016 Annual Meeting of the Association of American Geographers, San Francisco, CA March 29-April 2, 2016.
- **Paxton, L.**, **J.M. Collins** and C. H. Paxton. Forecasting Meteotsunamis along Florida's West Coast. 14th Symposium on the Coastal Environment, at the Annual Meeting of the American Meteorological Society, New Orleans, LA Jan 10-14, 2016.
- **Hergert, R. J.**, **J.M. Collins**, J. P. Dunion, and C. H. Paxton. Saharan Air Layer Dust Loading: Effects on Convective Strength in Tropical Cloud Clusters. Annual Meeting of the American Meteorological Society, Phoenix, AR Jan 4-8, 2015.
- **Paxton, C.**, J. Muller and **J. M. Collins**. Paleotempestology: Storm Surge Records along the Southwest Florida Coast. American Meteorological Society 95<sup>th</sup> Annual Meeting (January 2015).
- Muller, J, **J. Collins**, Ercolani and **C. Paxton**. A Millennial-Scale Record of Hurricane Landfalls along the Southwest Florida Coastline, 2014 Annual Meeting of the Association of American Geographers, Tampa, FL April 8-12.
- **Collins, J.M.**, J. Muller, **C. Paxton**, C. Ercolani. Sampling Considerations for Paleotempestology Storm Surge Records along the Southwest Florida Coast, 2014 Annual Meeting of the Association of American Geographers, Tampa, FL April 8-12.
- **Rice, L.**, **J.M. Collins**, H. Gladwin and B. Morrow. Public Perception and Response to Superstorm Sandy. 2014 Annual Meeting of the Association of American Geographers, Tampa, FL April 8-12.
- **Paxton, C.**, **J.M. Collins**, T. P. Barron, and R. J. Davis. Weather Challenges to Urban and Ecosystem Environments along Florida's West Coast. Annual Meeting of the American Meteorological Society, Atlanta, GA Feb 2-7, 2014.
- **Yoo, J.\***, **J.M. Collins**, and R.V. Rohli, An Investigation of Tropical Cyclogenesis in the Intra-Americas Sea using the ERA-Interim Reanalysis: Tropical Storm Arlene (2005), 2013 Annual Meeting of the Association of American Geographers, Los Angeles, CA, April 9-13.
- **Jellison, D.** and **J.M. Collins**, Social Networking's Influence during Disaster Recovery. AABSS, Las Vegas, February 2013.
- **Collins, J.M.** and **D.R. Roache**, 2012 Hurricane Season – A Comparison with Climatology and Intraseasonal Variability. Annual Meeting of the Association of American Geographers, LA, April 2013.
- **Paxton, C.H.**, T. Barron, R. Davis, **J.M. Collins**, **K. E. Roberts**, 2012, Weather Challenges to Estuarine Ecosystems Along Florida's West Coast. 6th National Conference on Coastal and Estuarine Habitat Restoration, Tampa, FL, October 2012.
- **Collins, J.M.**, **C.H. Paxton**, **D.R. Roache**, T.L. Hansen, K. Hirvela, J.L. Simms, S. Kotiyal, Integrated Hazard Information Service: A Warning System for Considering Social Characteristics of Population at Risk. Annual Meeting of the Association of American Geographers, NY, February 2012.



- **Paxton, C.H., J.M. Collins**, T.L. Hansen, J.L. Simms, K. Hirvela, S. Kotiyal, 2012: Integrated Hazard Information Service: A Warning System That Considers Social Characteristics of the Population At Risk. 28th Conference on Interactive Information Processing Systems (IIPS), 92<sup>nd</sup> Annual Meeting of the American Meteorological Society Conference, 22–26 January 2012, New Orleans, Louisiana.
- **Paxton, C.H., J.M. Collins**, and J. Colson, 2012: Weather patterns and social aspects associated with U.S. rip current deaths, 10th Symposium on the Coastal Environment, 92<sup>nd</sup> Annual Meeting of the American Meteorological Society Conference, 22–26 January 2012, New Orleans, Louisiana.
- **Yoo, J.\***, **J.M. Collins** and R. Hart, Coupled WRF-HYCOM Model Development at USF: Current Status of the Development with a Case Study of Hurricane IKE (2008). *Annual Meeting of the Association of American Geographers*, NY, February 2012.
- **Collins, J.M., D.R. Roache, E.W. Kopp IV**, D. Lunsford, 2011: Temperature Variability over Antarctica. The 34<sup>th</sup> Applied Geography Conference, Redlands, CA, October, 2011.
- **Collins, J.M., C.H. Paxton**, T.L. Hansen, K. Hirvela, J.L. Simms, S. Kotiyal, A Warning System Which Considers Social Characteristics of Population at Risk. Annual Meeting of the Association of American Geographers, Seattle, WA, April 2011.
- **Paxton, C.H.** and **J.M. Collins**, T.L. Hansen, J.L. Simms, K. Hirvela, S. Kotiyal, A New Weather Warning Tool that Incorporates Census Data. American Geophysical Union.
- **Paxton, C.H.** and **J.M. Collins**, Weather Patterns Associated with Rip Current Deaths in the Contiguous United States Coastal Ocean Areas. Annual Meeting of the Association of American Geographers, Seattle, WA, April 2011.
- **Roache, D.R. and J.M. Collins**, The Impact of the Madden - Julian Oscillation on Eastern North Pacific Basin Hurricane Season Onset. Annual Meeting of the Association of American Geographers, Seattle, WA, April 2011.
- **Mazza, C., J.M. Collins and C.H. Paxton**, Sea Breeze and Associated Wind Regimes Affecting Rainfall Patterns and Severe Weather in Pinellas County, FL. Annual Meeting of the Association of American Geographers, Seattle, WA, April 2011.
- **Mazza, C., J.M. Collins and C.H. Paxton**, The Spatial Distribution of Rainfall Patterns in Pinellas County, FL. Annual Meeting of the National Weather Association. Tucson AZ, October 2010.
- **Roache, D.R. and J.M. Collins**, The Impact of Interaction between the El Niño - Southern Oscillation and the Madden - Julian Oscillation on Eastern North Pacific Tropical Cyclone Activity. The Annual Meeting of the National Weather Association. Tucson AZ, October 2010.
- **Collins, J.M. and D.R. Roache**, The 2009 Hurricane Season in the Eastern North Pacific and Implications for the North Atlantic. Annual Meeting of the Association of American Geographers, Washington DC, April 2010.
- **Roache, D.R., J.M. Collins** and T. Boucher, The Variability of Atlantic Tropical Cyclone Activity and Landfall Frequency during the ENSO Neutral Conditions. Annual Meeting of the Association of American Geographers, Washington DC, April 2010.
- **Paxton, C.H.** and **J.M. Collins**, Modeling Tornado Development in Southwest Florida. Annual Meeting of the Association of American Geographers, Washington DC, April 2010.
- **Paxton, C.H., J.M. Collins**, and **K.J. Pugh**, Weather Patterns Associated With Florida Rip Current Deaths. 1st International Rip Current Symposium, Miami, Florida, February 2010.
- **Paxton, C.H., J.M. Collins**, C.N. Carlisle, and **A.N. Williams**, Modeling Southwest Florida Tornadoes. 22nd Conference on Climate Variability and Change, Annual Meeting of the American Meteorological Society, Atlanta, Georgia, January 2010.

- **Paxton, C.H., J.M. Collins, K.J. Pugh, and J. Colson**, A Digital Archive of Significant West Central and Southwest Florida Weather Events to Improve the Public's Response to Future Warnings. 19th Symposium on Education, Annual Meeting of the American Meteorological Society, Atlanta, Georgia, January 2010.
- **Collins, J.M., C.H. Paxton and A.N. Williams**, Geographical, Meteorological, and Climatological Conditions Surrounding the 2008 Interstate 4 Disaster in Florida. Applied Geography Conference, Baton Rouge, Louisiana, October 2009.
- **Sullivan, J. and Collins, J.M.**, The Use of Low Cost Data Logging Temperature Sensors in the Evaluation of an Urban Heat Island in Tampa, Florida. Applied Geography Conference, Baton Rouge, Louisiana, October 2009.
- **Collins, J.M., A.N. Williams, C.H. Paxton and D. Noah**, Southwest Florida Warm Season Tornadoes. Annual Meeting of the Association of American Geographers, Las Vegas, Nevada, March 2009.
- **Rodrigues, R.**, **J.M. Collins**, V. da Silva Marques and **K. Pugh**, Summertime Temperature Variability in South America between 1948-2007. The Meeting of the Americas, American Geophysical Union Joint Assembly, Ft. Lauderdale, Florida, May 2008.
- **Collins, J.M. and D.M. Hinkel**, A Case Study in Identifying Vulnerable Populations in the City of Tampa, Florida. Annual Meeting of the Association of American Geographers, Boston, Massachusetts, April 2008.
- **Collins, J.M.**, The Relationship of ENSO and Relative Humidity on Interannual Variations of Hurricane Numbers in the North-East Pacific Ocean. Applied Geography Conference, Indianapolis, Indiana, October 2007.
- **Collins, J.M.**, Coming to America: A Case Study Depicting Challenges Facing Faculty Coming to United States Universities and Assessing Opportunities for New Academics. Annual Meeting of the American Meteorological Society, Denver, Colorado, April 2005.
- **Collins, J.M. and I.M. Mason**, Seasonal Environmental Conditions Related to Hurricane Activity in the Northeast Pacific Basin. Annual Meeting of the Association of American Geographers, New Orleans, Louisiana, March 2003.
- **Collins, J.M. and I.M. Mason**, Seasonal Environmental Conditions Related to Tropical Cyclone Activity in the NE Pacific basin. 25<sup>th</sup> Conference on Hurricanes and Tropical Meteorology, American Meteorological Society. San Diego, California, April 2002.
- **Collins, J.M.**, Local Environmental Conditions Related to Seasonal Hurricane Activity in the NE Pacific basin. 24<sup>th</sup> Conference on Hurricanes and Tropical Meteorology, American Meteorological Society. Fort Lauderdale, Florida, May 2000.
- **Collins, J.M.**, M.A. Saunders and J.A.G. Mansley, Environmental Conditions Affecting Seasonal Hurricane Activity in the Northeast Pacific 1972-1997. 23<sup>rd</sup> Conference on Hurricanes and Tropical Meteorology, American Meteorological Society. Dallas, Texas, January 1999.

### **Regional**

- **Weis, N., C.Paxton, J.M. Collins**, Perceptions Toward Storm Surge, Future Sea Level Rise, and Evacuation, 2011 Climate Education Symposium & Showcase, Tampa, Florida, November 2011.
- **Roache, D.R., J.M Collins**, The Inactive 2009 Hurricane Season in the North Atlantic Basin: An Analysis of Environmental Conditions. Annual Meeting of the Southeastern Division of the Association of American Geographers, Birmingham, Alabama, November 2010.

- **Paxton, C.H., J.M. Collins and A.N. Williams**, Modeling Southwest Florida Warm Season Tornado Development. Annual Meeting of the Florida Society of Geographers, Tampa, Florida, January, 2010.
- **Roache, D.R., J.M. Collins and T.R. Boucher**, The Impact of the El Niño - Southern Oscillation on Atlantic Landfalling Intense Hurricanes. Annual Meeting of the Florida Society of Geographers, Tampa, Florida, January 2010.
- **Roache, D.R., J.M. Collins and T.R. Boucher**, Seasonal Change in ENSO Region Sea Surface Temperature Anomalies and Atlantic Tropical Cyclone Activity. Annual Meeting of the Southeastern Division of the Association of American Geographers, Knoxville, Tennessee, November 2009.
- **Paxton, C.H., J.M. Collins and A.N. Williams**, Precursors to Southwest Florida Tornado Development. Annual Meeting of the Southeastern Division of the Association of American Geographers (SEDAAG), Knoxville, Tennessee, November 2009.
- **Williams, A.N., J.M. Collins, C.H. Paxton and D. Noah**, Southwest Florida Warm Season Tornadoes. West Central Florida Chapter of the American Meteorological Society Meeting, Tampa, Florida, February 2009.
- **Paxton, C.H., J.M. Collins, A.N. Williams and D. Noah**, Florida Super Fog - Carnage on Interstate 4. West Central Florida Chapter of the American Meteorological Society, Tampa, Florida, February 2009.
- **Williams, A.N. and J.M. Collins**, Florida Super Fog - Carnage on Interstate 4. Annual Meeting of the Southeastern Division of the Association of American Geographers, Greensboro, North Carolina, November 2008.
- **Collins, J.M. and D.M. Hinkel**, Hurricane Vulnerability of People in Ybor City, Tampa (FL). Annual Meeting of the Southeastern Division of the Association of American Geographers, Charleston, South Carolina, November 2007.
- **Collins, J.M., D.M. Hinkel and N. Yavneh**, Hurricane REU: Experiential Learning for Undergraduate Students. Annual Meeting of the Southeastern Division of the Association of American Geographers, Morgantown, West Virginia, November 2006.
- **Raulerson, A. and J.M. Collins**, Meteorological Concepts Explained through a Flight Fieldtrip Experience. Annual Meeting of the Florida Society of Geographers, St. Petersburg, Florida, February 2006.
- **Collins, J.M.**, Travel Experiences as Part of the Post Secondary Curriculum. Annual Meeting of the Middle States Division of the Association of American Geographers. Villanova, Pennsylvania, October 2004.
- **Collins, J.M. and S. Ryan**, Travel Experiences as Part of the Post Secondary Curriculum at Rural Post Secondary Institutions. Annual Meeting of the Pennsylvania Geographical Society. New Cumberland, Pennsylvania, November 2004.
- **Collins, J.M.**, Why are there Few Hurricanes in One Year When There May be Many Hurricanes in Another Year? Annual Meeting of the Pennsylvania Geographical Society. Erie, Pennsylvania, November 2003.

#### KEYNOTE SPEECHES

- **Collins, J.M.**, June 26, 2019: Demystifying Hurricanes. Mastering the Possibilities. (INVITED)
- **Collins, J.M.**, January 5, 2019: "Rollercoasters in the academic theme park". AMS Student Conference of the AMS Annual Meeting. Phoenix, Arizona.  
<https://ams.confex.com/ams/2019Annual/videogateway.cgi/id/49879?recordingid=49879>

**(INVITED)**

**MAJOR SPEECHES**

- **Collins, J.M.**, April 11, 2019: Some Physical and Social Aspects of Hurricane Research. USF's College of Arts and Sciences Dean's Leadership Council.  
**(INVITED)**
- **Collins, J.M.**, Jan 25, 2019: Some Physical and Social Aspects of Hurricane Research. Texas State University.
- **Collins, J.M.**, Oct 12, 2018: Should I stay or should I go? People's evacuation decision's related to Hurricane Irma. XLCatlin Reinsurance. London. England.  
**(INVITED)**
- **Collins, J.M.**, Oct 8, 2018: A Comparison between Florida's and the UK's Weather and Climate: A Focus on Hurricanes. Café Scientific, Bishop's Stortford, England.  
**(INVITED)**
- **Collins, J.M.**, Oct 3, 2018: Long Island Hurricanes on the 80th Anniversary of the 1938 Storm: Past, Present, and Future. Hofstra University. Panel Member.  
**(INVITED)**
- **Collins, J.M.**, April 9, 2018: Hurricanes: Physical and Social Sciences Research. University of Colorado at Greeley.  
**(INVITED)**
- **Collins, J.M.**, April 5, 2018: Florida's Hurricanes. West Central Florida Chapter of the American Meteorological Society Annual Meeting Keynote Speaker.  
**(INVITED)**
- **Collins, J.M.**, March 21, 2018: Florida Weather and Climate: Hurricanes. The Florida Aquarium's Evening Tide Talk Series. <https://watch.tbae.net/m/pr50UcRU/floridas-wild-weather-and-climate?list=zks49fn6>  
**(INVITED)**
- **Collins, J.M.**, October 6, 2017: Florida Weather and Climate: More than Just Sunshine. Mastering the Possibilities.  
**(INVITED)**
- **Collins, J.M.**, October 21, 2016: The Record breaking 2015 Hurricane Season in the Eastern North Pacific. Kent State University.  
**(INVITED)**
- **Collins, J.M.**, June 19, 2015: Hurricane Landfalls along the Southwest Florida Coastline and Comparisons with Other Areas. Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC), Bologna, Italy.  
**(INVITED)**
- Muller, J., **J.M. Collins**, C. Ercolani, C. Paxton, Using the Geologic Record to Determine Long-Term Trends in Hurricane Landfalls along the West Florida Coastline. 5th International Hurricane Summit on Hurricanes and Climate Change, Chania, Greece, June 2015 (**INVITED SPEAKER**: Note originally invited as speaker and then invited as speaker and co-organizer).
- **Collins, J.M.**, November, 2015: Crafting a Study-Abroad Experience from a Faculty Perspective. ATLE Workshop Series. University of South Florida.
- **Collins, J.M.**, January 16, 2015: Teach Students How to Create (and Present) a "WOW" Poster. ATLE Workshop Series. University of South Florida.

- **Collins, J.M.**, September 12, 2014: Crafting a Study-Abroad Experience from a Faculty Perspective. ATLE Workshop Series. University of South Florida.
- **Collins, J.M.**, June 3, 2014: Crafting a Study-Abroad Experience from a Faculty Perspective. ATLE Workshop Series. University of South Florida.
- **Collins, J.M.**, March 3, 2010: Poster Design. Undergraduate Research Symposium Workshop Series. University of South Florida.
- **Collins, J.M.**, June 14, 2012: Promoting Diversity. Panelist for the 2012 AAG Department Leadership Workshop, University of Colorado, Boulder, CO.  
**(INVITED)**
- **Collins, J.M.**, February 1, 2012: Interannual Hurricane Variability in the North Atlantic and Eastern North Pacific basins. Florida Institute of Technology, FL.  
**(INVITED)**
- **Collins, J.M.**, October 7, 2011: Relationships between Hurricane Activity in the Northeast Pacific and North Atlantic Basins. Hobart Williams Smith College, NY.  
**(INVITED)**
- **Collins, J.M.**, March 3, 2010: Poster Design. Undergraduate Research Symposium Workshop Series. University of South Florida.  
**(INVITED)**
- **Collins, J.M.**, February 26, 2010: The 2009 Hurricane Season in the Eastern North Pacific and Implications for the North Atlantic. Florida State University.  
**(INVITED)**
- **Collins, J.M.**, October 13, 2009: Hurricanes - Are They Becoming More Frequent and What Causes Their Frequency to Vary from Year to Year? Department of Environmental Science, Policy and Geography. University of South Florida St. Petersburg.  
**(INVITED)**
- **Collins, J.M.**, September 16, 2009: Hurricanes - Are They Becoming More Frequent and What Causes Their Frequency to Vary from Year to Year? College of Arts and Sciences Lunch with a Scholar Series, University of South Florida.  
**(INVITED)**
- **Collins, J.M.**, August 11, 2009: Teaching Tips for the Graduate Orientation. Department of Geography, University of South Florida.
- **Collins, J.M.**, June 12, 2009: Active Versus Inactive Seasons. NSF funded Hurricane Research Experience for Undergraduates (REU) seminar series, University of South Florida.
- **Paxton, C.H., A.N. Williams, J.M. Collins**, February 12, 2009: Central Florida Fog, National Weather Service GoToMeeting online presentation.
- **Paxton, C.H., A.N. Williams, J.M. Collins**, February 12, 2009: South-West Florida Tornadoes, National Weather Service GoToMeeting online presentation.
- **Collins, J.M.**, September 11, 2008: Relationships between Hurricane Activity in the Northeast Pacific and North Atlantic Basins. University of Florida.  
**(INVITED)**
- **Collins, J.M.**, June 22, 2007: Interannual Variability of Hurricane Frequency. NSF funded Hurricane Research Experience for Undergraduates (REU) seminar series, University of South Florida.
- **Collins, J.M.**, September 8, 2006: The SHEAR Magnitude of the 2005 Season. What Does 2006 Hold in Store for Us? The NE Pacific and Atlantic Hurricane Link. College of Marine Sciences, University of South Florida.

**(INVITED)**

- **Collins, J.M.**, September 6, 2006: Hurricanes. Environmental Research Interdisciplinary Colloquium (ERIC), University of South Florida.  
**(INVITED)**
- **Collins, J.M.**, July 17, 2006: The SHEAR Magnitude of the 2005 Season. What Does 2006 Hold in Store for Us? NSF funded Hurricane Research Experience for Undergraduates (REU) seminar series. University of South Florida
- **Collins, J.M.**, March 28, 2006: The SHEAR Magnitude of the 2005 Season. What Does 2006 Hold in Store for Us? West Central Florida Chapter of the American Meteorology Society  
**(INVITED)**
- **Collins, J.M.**, and A. Raulerson, March 8, 2006: Who Wants to be a Meteorologist or a Businessperson or ??? An Educational Game for Learning Enhancement. Symposium on 21st Century Teaching Technologies, Center for 21st Century Teaching Excellence, University of South Florida
- **Collins, J.M.**, November 16, 2005: Hurricanes - Let's be Ready. Great American Teach-in Presentation. Pride Elementary School, Tampa, Florida  
**(INVITED)**
- **Collins, J.M.**, February 25, 2003: Hurricanes - Why are There Few in one Year when there may be many in Another? Society for Scholarly Dialogue. Plymouth State University  
**(INVITED)**

**OTHER CONFERENCES ATTENDED**

- Climate Change Conference on National Security, Energy and Climate sponsored by the Pew Project - University of South Florida, Florida (2009)
- The Global Water Crisis offered by the College of Public Health - University of South Florida, Florida (2009)
- Math Awareness Conference - St. Petersburg, Florida (2006)
- 1<sup>st</sup> International Conference on Climate and Philosophy - University of South Florida, Florida (2006)
- Annual Meeting of the Southeastern Division of the Association of American Geographers - West Palm Beach, Florida (2005)
- New England Storms Conference - Saratoga, New York (2000)
- Hurricanes at Landfall Conference - Birmingham, United Kingdom (1999)
- Dealing with Natural Disasters Conference - London, United Kingdom (1999)
- Global Warming Conference - Hong Kong (1998)
- 100<sup>th</sup> The Physics of Climate Conference - London, United Kingdom (1997)

**CURRENT MEMBERSHIP OF PROFESSIONAL ORGANIZATIONS**

- Council for Undergraduate Research (CUR)
- American Association for the Advancement of Science (AAAS)
- American Meteorological Society (AMS)
- National Weather Association (NWA)
- Association of American Geographers (AAG)
- Climate Specialty Group of the AAG (CSG)

- West Central Florida Chapter of the AMS (WCFLAMS)
- Southeastern Division of the Association of American Geographers (SEDAAG)

## PROFESSIONAL LEADERSHIP AND SERVICE

1. National Weather Association (NWA)
  - Specialized Operations Committee on Tropical Cyclones, 2009-2017 (**INVITED and approved by the Special Operations Services Committee**)
2. American Meteorological Society
  - Edward N. Lorenz Teaching Excellence Award Committee, 2019
  - AMS Membership sub-committee, 2011-2012
  - Local Chapters Affairs Committee, 2013-2016
3. West Central Florida Chapter of the American Meteorological Society (WCFLAMS)
  - President, 2010 - 2020 (**ELECTED**). Local Chapter of the Year, 2015-2016, 2014-2015 and 2011-2012. Honor Roll 2012-2013, 2013-2014 and other years. Received 1<sup>st</sup> place chapter poster award 2016, 2<sup>nd</sup> place 2015, 3<sup>rd</sup> place 2014, 2017.
  - Vice President, 2009-2010 (**ELECTED**)
  - Corresponding Secretary, 2007-2009 (**ELECTED**)
  - Dewey Stowers' Award Selection Committee, 2006
  - Bert Wappler Scholarship Selection Committee, 2006, 2008
4. University Corporation of Atmospheric Research
  - Unidata Strategic Planning Committee, 2015 (3-year term) (**NOMINATED AND ELECTED BY BOARD**)
  - Unidata Users Committee, 2011-2015 (**NOMINATED AND ELECTED BY BOARD**)
  - Co-organizer of the UNIDATA Users Triennial Workshop, 2012
  - Organizer of the 2015 Unidata Regional Workshop
5. Association of American Geographers (AAG)
  - National Councilor, 2018-2021 (**ELECTED**), 2019 appointed as Chair of the National Councilors
  - Co-Chair of the Local Arrangements Committee for the 2014 Association of American Geographers in Tampa
  - Climate Specialty Group Chair, 2014 – 2017 (**ELECTED**)
  - Climate Specialty Group Vice Chair, 2012 – 2014 (**ELECTED**)
  - Moderator for the panel on Promoting collegiality and communication and improving faculty satisfaction, 2012 AAG Department Leadership Workshop, University of Colorado, Boulder, CO (**INVITED**)
  - Climate Specialty Group Director, 2010 – 2012 (**ELECTED**)
  - Panel member, alongside AMS President Dr. Louis Uccellini, “Working at the intersection of Geography and Atmospheric Science.” Association of American Geographers Conference, NY, 2012 (**INVITED**)
  - Panel member, alongside former AAG Past President, Dr. Kenneth Foote, “Improving AAG Regional Division Conferences.” Association of American Geographers Conference, NY, 2012 (**INVITED**)

- Student Paper Judge, 2011
  - Geography Bowl committee, 2003-2009
  - Session/Workshop Organizer and Leader for International Faculty, San Francisco, California, 2007
  - World Geography Bowl Coach and Team Organizer, Las Vegas, Nevada, 2009
  - World Geography Bowl Team Coach and Team Organizer, Boston, Massachusetts, 2008
  - World Geography Bowl Judge and Final Round Question Author, Chicago, Illinois, 2006
  - World Geography Bowl Moderator and Question Author, Denver, Colorado, 2005
  - World Geography Bowl Moderator and Question Author, Philadelphia, Pennsylvania, 2004
  - World Geography Bowl Moderator and Question Author, New Orleans, Louisiana, 2003
6. American Geophysical Union
- American Geophysical Union 2019 Report advisory panel.
7. Southeastern Division of the Association of American Geographers (SEDAAG)
- Nominating Committee, 2018-2019
  - World Geography Bowl Question Author, Asheville, NC, 2012
  - Program committee, 2011
  - World Geography Bowl FL Team Co-coach (winning team), Birmingham, AL, 2010
  - Undergraduate Poster Judge, 2010
  - Education Committee Chair, 2009 - 2010
  - Education Committee Member, 2006 - 2010
  - Chair of session on Monsoons and Hurricanes, 2009
  - Discussant of paper at SEDAAG Conference, 2007
  - World Geography Bowl FL Team Coach, Knoxville, TN, 2009
  - World Geography Bowl FL Team Coach (winning team), Greensboro, NC, 2008
  - World Geography Bowl FL Team Coach (winning team), Charleston, SC, 2007
  - World Geography Bowl Judge and Dream Team Question Author, Morgantown, WV, 2006
  - World Geography Bowl Judge, Final Round Question Author and FL Team Coach (winning team), West Palm, FL, 2005
  - Geography Bowl Committee, 2005-present
8. Other divisions of the Association of American Geographers
- Middle States Geography Bowl Moderator and Question Author, Villanova, PA, 2004
  - NESTVAL Geography Bowl Question Author, 2003
  - NESTVAL Geography Bowl Score Keeper, Montreal, Quebec, 2002
9. Florida Society of Geographers
- Planning Committee
  - Undergraduate Poster Judge

#### **OTHER PROFESSIONAL SERVICE TO THE DISCIPLINE (Selected)**

- Reviewer AGU report *Surging Waters: Science empowering communities in the face of flooding*, 2019
- Reviewer for BAMS, 2019



- Content consultant for grade 6-12 books on Hurricane Harvey and Hurricane Irma.
- *Oxford Bibliographies*, Editorial Board Member (INVITED), 2016-present
- Reviewer for NCAR scientist promotion to Scientist Level III
- Reviewer for Scientific Reports – Nature, 2016
- Served as an external examiner for PhD student, Department of Physical and Environmental Sciences, University of Toronto Scarborough, 2015
- Reviewer for Journal of Climate, 2015
- Reviewer for the climate chapter in Dahlman/Renwick “Intro to Geography,” 2015
- NSF Grant Reviewer, Geography and Spatial Sciences Program, 2014
- *International Journal of Earth and Atmospheric Science*, Editorial Board Member (INVITED), 2014-2018
- Served as an external examiner for CQUniversity, Australia, 2013
- Served as a reviewer for University of West Florida for Tenure and Promotion case, 2013
- Reviewer for *SEDAAG conference papers*, 2013
- Reviewer for Florida Institute of Technology for a promotion to Full Professor, 2012
- Quiz question writer for Ahren’s Meteorology Today Online, 2012
- Reviewer for *Atmosphere-Ocean*, 2012
- Reviewer for *SEDAAG conference papers*, 2011
- Reviewer for *Climate Research*, 2011
- Reviewer for the Louisiana Sea Grant Program, 2011
- Reviewer for *Climate Research*, 2010
- Reviewer for *Monthly Weather Review*, 2010
- Reviewer for *Natural Hazards*, 2010
- Reviewer of a book for the Oxford University Press, McIlveen’s Fundamentals of Weather and Climate, 2009
- Reviewer for *Journal of Ecology and the Natural Environment*, 2009
- Reviewer for *Alabama Academy of Science Journal*, 2008
- Reviewer for *The Southeastern Geographer*, 2007, 2008
- Reviewer for *The Geographical Bulletin*, 2008
- Reviewer for *The Professional Geographer*, 2007, 2008
- Reviewer for *The Florida Geographer*, 2005
- Reviewer for *Papers of Applied Geography Conferences*, 2005
- Participated in discussion online for the Earth Science Literacy Initiative for K-12, 2009
- Mentor/weather specialist for children of the “Global Scientist 2001” and “Global Scientist 2002” program (part of the University of Michigan’s “One Sky, Many Voices” project)

#### **CONFERENCE/WORKSHOP DEVELOPMENT/LEAD ROLE**

- Symposium on Hurricanes in a Changing Climate, Key Largo, Fl., 2021 Co-organizer with K. Emanuel, G. Holland, J. Kleinn, A. Sobel, A. Burnett Penn, J. Neumann.
- International Hurricane and Climate Change Summit, Heraklion, Greece, 2017 Co-organizer with K. Emanuel, G. Holland, J. Kleinn, C.C. Wu, S. Cutter, K. Tierney
- International Hurricane and Climate Change Summit, Chania, Greece, 2015 Co-organizer with Rick Murnane
- Unidata Regional Workshop, Tampa, FL, 2015 Organizer

- Association of American Geographers Conference, 2014 Local Arrangements Committee Co-Chair
- Hurricane Evacuation Research Team Training, University of South Florida, 2009-present
- Organizer of the West Central Florida Chapter of the American Meteorological Society's monthly meetings and annual meeting and banquet, 2007-present
- Organizer of the West Central Florida Chapter of the American Meteorological Society's "Teach the Teacher" workshops, monthly presentations and annual meeting, 2007-present
- Organizer of the "Weather and Climate Forecasting Conference." West Central Florida Chapter of the American Meteorological Society/University of South Florida, 2010
- Organizer of the "Careers in Meteorology" Workshop. University of South Florida/West Central Florida Chapter of the American Meteorological Society, 2010
- Florida Society of Geographers, Conference Planning Committee and Undergraduate Poster Judge, 2009-2010
- Organizer and presenter of the Active Learning Swap Shop and Poster Madness sessions sponsored by the Education Committee, Southeastern Division of the Association of American Geographers, 2009
- Organizer and presenter of introductory training session on teaching for new graduate students in the department, 2009
- Panel member on the theme of mentoring undergraduate research, Office of Undergraduate Research, University of South Florida, 2009
- Organizer of the Honors Colleges' NSF funded Hurricane Research Experience for Undergraduates (REU) Program's field trip and seminar series, 2008, 2009, 2010
- Organizer and presenter of the Active Learning Swap Shop sponsored by the Education Committee, Southeastern Division of the Association of American Geographers, 2008  
**(INVITED)**
- Organizer of workshop for international faculty at the Association of American Geographers conference, 2007

## **SERVICE TO THE UNIVERSITY**

- Served as External Chair for the PhD Defense of Leanna Smithberger, Communications
- ATLE Faculty Liaison 2019-2020, 2020-present
- Served on Conference Support grant and FITG grant committee, 2016-2019
- Served on the writing committee for re-classifying through Carnegie USF's status for community engagement, 2018-2019
- Serve on university-wide community engagement committee, 2018-2019
- Serve on Council for Faculty Issues, 2014-2017
- Served as External Chair for the PhD Defense of Tammy Foster, Integrative Biology
- Committee to evaluate university-wide Teaching Assistant teaching portfolios, University of South Florida, 2014, 2015
- The Faculty Senate, 2014-2017 (**ELECTED**, volunteered in 2013 also in a temporary position)
- Transforming STEM Education Faculty Learning Community (2014)
- The State Articulation Coordinating Committee, 2013-2014
- Graduate School Recruitment Consortium, University of South Florida, 2011-2013
- Undergraduate Research Advisory Committee, University of South Florida, 2011-2013  
**(INVITED)**

- Assistance and participation in the NSF funded Hurricane Research Experience for Undergraduates (REU) program, University of South Florida, 2006-2012
- Scholarship of Teaching and Learning Faculty Learning Community, 2011-2012
- Committee to evaluate innovative teaching grant proposals (ITG/CTE), University of South Florida, 2008
- Judge at the 6<sup>th</sup> Annual USF Undergraduate Symposium, University of South Florida, 2008
- Committee to evaluate university-wide Teaching Assistant teaching portfolios, University of South Florida, 2006
- Student Life Committee (university level), Bloomsburg University, 2004-2005 (**ELECTED**)
- Department ambassador to the Teaching and Learning Enhancement Center, Bloomsburg University, 2004-2005
- Mentor for the Act 101/EOP program, Bloomsburg University, 2004-2005
- Mentor for the New Faculty program, Bloomsburg University, 2004-2005
- Assisted with the development of Plymouth State University's international exchange program helping them with the paperwork to obtain J1 status

### **SERVICE TO THE COLLEGE**

- College of Arts and Sciences Tenure and Promotion Committee, fall 2020 – Present.
- College of Arts and Sciences Faculty Council (3-year term **elected**, fall 2013-spring 2016). With reorganization with the merged departments, I stepped down as my new department already had one representative.
- College of Arts and Sciences Faculty Development Committee (2-year term **elected**, fall 2008-spring 2010)
- Chair of Student Grievance Committee, spring 2008
- Member of Student Grievance Committee, summer 2007
- Recruitment and Retention Committee for the College of Science and Technology, Bloomsburg University, 2004-2005

### **SERVICE TO THE DEPARTMENT**

- Served on Tenure and Promotion committees; 2013-2020
- Served on committee to review faculty evaluations in the School of Geosciences, 2014, 2016, 2019
- Faculty Advisory Committee Member, spring 2014 (Fall 2015, Jan-April 2016: Chair)
- Provost's Post Doc Initiative Reviewer, 2012-2015
- Appointed Graduate Director-Coordinator, Environmental Science and Policy Program, Department of Geography, Environment and Planning, University of South Florida, 2010-2013.
- Tharp Fellowship Committee, Department of Geography, Environment and Planning, 2011, 2013
- Student Travel Grant Committee, Environmental Science and Policy Program, Department of Geography, Environment and Planning, 2011-2013
- Graduate Committee, University of South Florida, fall 2009-2014
- Representative of the department at commencement, University of South Florida, 2008-2010
- Job Search Committee (various), University of South Florida, 2005-2009
- Advisor to the Geography Club, University of South Florida, 2006-2009
- Manager of the Weather Lab, University of South Florida, 2005-2012

- Undergraduate Committee, University of South Florida, 2006-2008
- Sabbatical Committee for Geography and Geoscience, Bloomsburg University, 2003-2005
- Forum Committee for Geography and Geoscience, Bloomsburg University, 2003-2005
- Budget Committee for Geography and Geoscience, Bloomsburg University, 2003-2005
- Technology Committee for Geography and Geoscience, Bloomsburg University, 2003-2005
- Curriculum Committee for Geography and Geoscience, Bloomsburg University, 2003-2005
- Co-advisor for the Geology Club, Bloomsburg University, 2003-2005
- Co-advisor for the Science Club, Plymouth State University, 2000-2003

### **OTHER COMMUNITY SERVICE**

- Invited panel member for the FEMA/FLASH sponsored workshop on hurricanes and inland flooding for Tampa Bay businesses, September 2017.
- Learning Gate Charter School Board of Directors – the school has an environmental mission (2013-present). Secretary (2015-2016), Vice President (2016-2018), President (2018-2020). Resource Development Committee Chair. Executive Committee: 2016-present (Chair: 2018 to present).
- Learning Gate Education Foundation Board Member, 2019-present
- Volunteer independent weather observer for Epsy volunteer fire company
- Hurricane awareness outreach, Hillsborough County (2011), Hernando County (2012)

### **WORKSHOP PARTICIPATION/OTHER TRAINING**

- CONVERGE training, 2020
- Association of Florida Conferences Region IV/ WACE Joint Spring Conference, 2020
- Training for the Medical Reserves Corps, 2019:  
FEMA IS-100.C: Introduction to the Incident Command System  
FEMA IS-700.B: An Introduction to the National Incident Management System
- S-141: Security Awareness Essentials training
- STEM High Impact Educational Practices Workshop, USF, 2018
- Carnegie Community Engagement (Re)Classification Workshop, 2018
- Service-Learning Boot Camp, 2017
- Participant of ATLE summer teaching symposium, 2015, 2016, 2017, 2018
- Board training: Sunshine Law, Conflict of Interest, Ethics, Financial Responsibility, 2016
- Grievance training, 2016
- Participant of Title IX training, 2016, 2018
- Participated in training for Angel, Canvas, Blackboard and DesireToLearn (D2L) course management systems
- Participated as a student in the class “Teaching Online” offered by USF TO 101
- Walking the Tightrope: The Search for Practical Ways to Advance Women's Careers in Geography, 2014
- Human Subjects Protection Training, Social / Behavioral Investigators and Key Personnel, 2014
- Board training: Sunshine Law, 2014
- Board training: Sunshine Law, Conflict of Interest, Ethics, Financial Responsibility, 2013
- Academic Women Leadership Discussion Panel, University of South Florida, 2012
- Mentoring and Professionalism within the Professoriate, University of South Florida, 2011

- Social / Behavioral Investigators and Key Personnel (5/3/10), and Social and Behavioral Responsible Conduct of Research training (7/5/10)
- Desert Research Institute's ASCENT workshop, Steamboat Springs, Colorado, 2009
- Latin American Data Workshop, Brazil, 2008
- Advisor 101 workshop, University of South Florida, 2007
- Official Skywarn storm spotter (advanced) certification, 2007
- State University of New York's Realtime Weather Course, 2005 GPA 4.00
- University of South Florida's Center for 21<sup>st</sup> Century Teaching Excellence Workshops, 2005-present
- The Geography Faculty Development Alliance (GFDA) New Faculty Workshop, Boulder, Colorado, 19-26 June, 2004
- "Hands on GPS" - workshop covered advances in GPS/GIS technology, Villanova, Pennsylvania, October 2004
- Colloquium participant: Advanced Study Program of the National Center for Atmospheric Research colloquium: "Hurricanes at Landfall," Miami, Florida and Boulder, Colorado, 1998

## MASS MEDIA ENGAGEMENT AND RECOGNITION

- Interviewed on the 2020 hurricane season and my research for the [BBC Worldwide](#) "Weather World". December 2, 2020.
- Quoted and research highlighted in article "For scientists studying 'disaster fatigue,' this has been a year like no other". [Science Magazine](#). November 24, 2020.
- Quoted in article "The Outcome of the U.S. Presidential Election is a Win for the Earth". [Forbes](#). November 7, 2020.
- Interviewed and research highlighted, "Researchers track impact of COVID-19 on hurricane preparations, evacuations". [Fox Channel 13 News](#). October 6, 2020.
- Interviewed and research highlighted for NPR and an article, "USF Study Looks At Hurricane Evacuations In Midst Of Pandemic". [WUSF](#). September 30, 2020.
- Interviewed and research highlighted for an article, "Hurricane evacuation plans could be muddled by coronavirus, study says". [The Tampa Bay Times](#). September 29, 2020.
- Research highlighted for an article, "Study investigates hurricane evacuations in the era of COVID-19". [USF News](#). September 21, 2020.
- Research highlighted for an article, "USF to study if COVID-19 affects decisions on hurricane evacuations". In the [Herald-Tribune](#). September 21, 2020.
- Research highlighted for an article, "USF professor to study hurricane evacuations amidst COVID-19". In [Florida Politics](#). September 21, 2020.
- Interviewed for article, "Hurricane Watch". [The Sunday Times](#). UK. September 29, 2019.
- Interviewed for national TV distribution. Hurricane Woman Takes on Mother Nature. October 22. [Ivanhoe](#).
- Interviewed for article, "From Harvey to Michael: how America's year of major hurricanes unfolded". [The Guardian](#). October 16, 2018.
- Interviewed for article, "Hurricane preparation now can save lives when storms strike". [Balwin Park Today](#). August 22, 2018.
- Blog for University Press of Florida. "How Meteorologists Work for Good in Bad Weather". January 26, 2018.

- Interviewed for article, Why is it so cold outside? Climate change or something else? 83 Degrees Media. January 3, 2018.
- Interviewed for article, 2017 was Tampa's warmest year on record. Tampa Bay Times. January 3, 2018.
- Interviewed for article, "Hurricane season 2017: What the hell just happened?". VOX. October 26, 2017.
- Interviewed on TV, "Evacuation research related to Hurricane Irma". WTTA. October 13, 2017.
- Interviewed on radio about my hurricane research, "Staying Put", BBC World Service. October 9, 2017.
- Interviewed on radio about hurricanes and my research. WUSF. September 26, 2017.
- Article about my research on website, "Helping One Another: USF Comes Together for Hurricane Irma". USF NEWS. Sept 21, 2017.
- Interviewed on TV, "USF team researches WHO evacuates in a hurricane". WTTA. September 6, 2017.
- Research highlighted in web article, "Community Spirit Led to People Staying Put During Hurricane Matthew". EnvironmentalResearchWeb.org. September 11, 2017.
- Quoted and research highlighted in article, "The Latest: Florida governor not downplaying Irma's danger". The Washington Post. September 6, 2017.
- Quoted and research highlighted in article, "These crazy Floridians refuse to evacuate as Irma looms". The NY Post. September 9, 2017.
- Quoted and research highlighted in "Hurricane Irma: Tampa Bay Area Hurricane, Storm Surge Warnings In Place". The Patch. September 9<sup>th</sup>, 2017.
- Quoted in article, "Ask the Experts: How Did 2 Such Powerful Hurricanes Occur Back to Back?" Scientific American. September 7, 2017.
- Quoted and research highlighted in article, "The Latest: Forecasts show nobody in Florida is off the hook." Pittsburgh Post-Gazette, September 6, 2017
- <http://www.post-gazette.com/powersource/latest-oil-and-gas/2017/09/06/The-Latest-Forecasts-show-nobody-in-Florida-is-off-the-hook/stories/201709060188>
- Quoted and research highlighted in "They've been warned: Some insist on riding out Irma at home". Chicago Tribune. September 10, 2017.
- Quoted and research highlighted in "They've been warned: Some insist on riding out Irma at home". LA Times. September 10, 2017.
- Quoted and research highlighted in "They've been warned: Some insist on riding out Irma at home". The Intelligencer. September 10, 2017.
- Interviewed on Youtube, USF News in 90. September 6, 2017. <https://youtube/q2yxHI9LYjE>
- Quoted and research highlighted in "They've been warned: Some insist on riding out Irma at home". The Idaho Statesman. September 10, 2017.
- Quoted and Research highlighted in "They've been warned: Some insist on riding out Irma at home". EdGlen. September 9, 2017.
- Quoted and Research highlighted in "They've been warned: Some insist on riding out Irma at home". Albuquerque Journal. September 9, 2017.
- Quoted and Research highlighted in "Pese al riesgo, algunos prefieren esperar a Irma en casa." Santa Maria Times. September 9, 2017.
- Quoted and Research highlighted in "'I'm scared to death': Riding out Irma at home". The Post Register. September 10.

- Quoted and research highlighted in “‘I’m scared to death’: Riding out Irma at home”. The Tribune Democrat, September 10, 2017.
- Quoted and research highlighted in “They've been warned: Some insist on riding out Irma at home”. Seattle PI, September 10, 2017.
- Interviewed for article in PreventionWeb. “2017 hurricane season follows year of extremes”. June 1, 2017.
- Interviewed for the Tampa Patch. “Extremes Made 2016 Atlantic Hurricane Season Unique: Researcher”. June 2, 2017.
- Blog On the CASE, Climate and Agriculture in the South East. “2017 hurricane season follows year of extremes”. A blog about the 2017 season and my hurricane research. July 3, 2017.
- Interviewed for The Baffler Magazine for an article on Hurricanes, “Gone with the Winds”. August 29, 2016.
- TV news story, “El Nino and Expectations for this Winter”. WFLA, November 10, 2015
- TV news story, “Hurricane Hunters.” WFLA, October 9, 2014.
- Interviewed for TV news story, “Hurricane Hunter Items on Display at USF.” WFLA, November 28, 2013.
- Interviewed for a dive fishing show on the Weather Channel, November 18, 2013.
- Interviewed for TV news story, “USF Researchers Look for Ancient Hurricane Marks.” WFLA, September 24, 2013.
- Interviewed for newspaper article, “Tampa Tops Tally of Cities Ripe for Hurricane.” The Tampa Tribune, June 5, 2013.
- Interviewed for TV news story, “Did Global Warming cause Sandy to Hit NYC and NJ?”. WFLA, November 2, 2012.
- Quoted for news story about Hurricane Sandy, “Northeast Slogs through Flooding, Darkness after Superstorm.” St. Louis Post Dispatch, October 31, 2012.
- Quoted for news story about Hurricane Sandy, “Sandy’s Trail of Devastation at Least 50 Deaths.” Star-telegram, October 31, 2012.
- Interviewed and quoted for news story about Hurricane Sandy, “Sandy Wreaks Havoc throughout Northeast U.S.”, October 30, 2012. Also The State, October 31, 2012. Also The Union Leader, October 31, 2012. Also the Modesto Bee, October 31, 2012. Also Post-Gazette, October 31, 2012.
- Interviewed on radio about Hurricane Sandy and expected weather, track, intensity. At Issue with Ben Merens, Wisconsin Public Radio, October 29, 2012.
- Interviewed on TV about Hurricane Sandy and my flight in the P3 Hurricane Hunter plane, “Hurricane Hunters Fly into the Storm for Data.” WFLA, October 26, 2012.
- Interviewed for news broadcast, “Hurricane Sandy.” WeatherNation, October 27, 2012.
- Interviewed for radio and news story, “USF Professor Hitches a Ride into the Eye of Hurricane Sandy.” WUSF, October 26, 2012.
- Interviewed for newspaper article, “Remembering the Great Storm of 1987.” Herts and Essex Observer, England, October 18, 2012.
- Interviewed on TV about my team’s hurricane warning system, “Project will Make Storm Forecasting More Personal.” WFLA, September 4, 2012.
- Interviewed on the radio for the Diane Rehm show, “Preview of the Republican National Convention” NPR, August 27, 2012.
- Wrote blog “Tropical Storm Isaac – update” On Point, USF, August 27, 2012.

- My student Provided blog, “Watch”ing the Tampa Bay Area” On Point, USF, August 25, 2012.
- Wrote blog “Isaac’s Track” On Point, USF, August 24, 2012.
- Wrote blog “Eye on the Storm” On Point, USF, August 24, 2012.
- Wrote blog “Stormy Weather” On Point, USF, August 24, 2012.
- Interviewed and my outreach efforts highlighted in article, “Learning from the Pros” USF News, June 28, 2012.
- Interviewed and my research highlighted in article, “USF Professor Eyes Global Weather to Predict Hurricanes” 83 Degrees, June 12, 2012.
- Interviewed and my research and recently acquired weather station highlighted in article, “Updated Weather Station Brings Campus Forecasts Online,” The Oracle, June 11, 2012.
- My research highlighted “USF’s Experts on Hurricanes Available Throughout the Season” in the American Meteorological Society Newsletter “AMS News You can Use,” Maddux News Wire and USF News, May 30, 2012.
- My research and weather efforts at USF highlighted on USF web page, “USF Weather Center Launches.” USF News, June 1, 2012.
- My participation with the Hurricane Research Experience for Undergraduate Program highlighted on USF website, “Researching up a Storm.” USF News, June 8, 2012.
- My Ph.D. student’s research highlighted on website, “Ph.D. Student to Discuss Hurricanes and Climate Research.” College of Arts and Science, November 7, 2011.
- My teaching and outreach efforts highlighted on website, “USF to host Weather and Climate Education Workshop for teachers.” College of Arts and Science, September 30, 2011.
- Interviewed for Blogistan Polytechnic Institute (BPI), “An Interview with a climate scientist.” BPI.com, August 16, 2011.
- My research highlighted in article, “Storm Chaser.” USF News, June 1, 2011.
- Research (my student - the lead) highlighted in an article, “Ph.D. Student Looks at What Fuels Deadly Rip Currents.” College of Arts and Science, May 20, 2011.
- Research (my student - the lead) highlighted in an article, “Examining What Fuels Deadly Rip Currents.” USF News. May 17 and May 20, 2011 and USF, May 16, 2011.
- My role as coach of the World Geography Bowl Competition and my student who was on the time is noted in article, “SEDAAG Geography Bowl,” Association of American Geographers Newsletter, March 2011, 46 (3), (p. 7).
- My teaching award highlighted in the “Grants and Awards” section of the Association of American Geographers Newsletter, February, 2011, p. 7.
- My student’s achievements highlighted on website, “USF Grad Student Wins Award at Florida Society of Geographers Annual Meeting.” College of Arts and Science, March 11, 2011.
- My research highlighted in article, “USF Weather Center explores natural disasters.” Newsletter from the Vice-President of Research and Innovation, Volume 3 Edition 3, December 14, 2010.
- Interviewed for Bayside on Global Climate Change. WLSS AM 930, WTBN AM 570 & 910, WGUL 860 AM. Podcast at: Talkradio860.com, Bayward.com and WLSSradio.com, December 18, 2010.
- My research highlighted in article, “Hurricane Hunter Collins Makes Landfall at USF.” USF News, December 1, 2010.
- My research highlighted in article, “USF Weather Center Explores Natural Disasters.” College of Arts and Science, December 1, 2010.
- My research project highlighted in article, “Florida Universities Get Economic Development Grant.” The Miami Herald (Miami, FL), November 17, 2010.



- My research project highlighted in article, “Florida Universities Get \$10 million for Engineering, Health and Science.” The St. Petersburg Times (St. Petersburg, FL), November 16, 2010.
- My research project highlighted in article, “New Florida grants announced.” USF News, November 15, 2010.
- Article about the SEDAAG Excellence in teaching award that I received, “Professor Wins Southeastern Division Award.” USF News, October 29, 2010.
- Article about the World Geography Bowl and SEDAAG’s win (coached by me), “SEDAAG Wins National World Geography Bowl Competition,” South-eastern Division of the Association of American Geographers Newsletter, 2010, 29 (10), (p. 4).
- Article about the active learning swap shop at SEDAAG which I organized, “Teaching Corner,” South-eastern Division of the Association of American Geographers Newsletter, 2010, 29 (10), (p. 5-6).
- Quoted and research highlighted in newspaper article, “USF Prepares for Hurricane Season.” The Oracle (Tampa, FL), Student newspaper of USF, June 3, 2010.
- Quoted in newspaper article, “Lull Since 2004 Hurricanes has Officials Talking up Preparation.” Winter Haven News Chief (Winter Haven, FL), May 31, 2010.
- Student on TV and conference that I organized was highlighted, “Teach the Teacher Conference and Dick Fletcher.” 10Connects (Tampa, FL), March 23, 2010.
- Quoted in newspaper article, “Rubio Questions Climate Change.” The Tampa Bay Tribune (Tampa, FL), February 13, 2010.
- Article about one of my students receiving an award on website, “The Dick Fletcher Memorial Scholarship Fund at USF.” College of Arts and Science, October 26, 2009.
- One of my students interviewed on TV news, “Remembering Dick Fletcher.” 10Connects (Tampa, FL), October 23, 2009.
- Two of my students quoted in newspaper article, “2 Students Chronicling Bay Area’s Weather History.” The Tampa Bay Tribune (Tampa, FL), September 7, 2009.
- Two of my students interviewed on TV, “Weather Instruments History.” NBC News (Tampa, FL), September 7, 2009.
- My research project highlighted on the National Weather Service’s website, “USF Students are preserving NOAA’s heritage.” National Weather Service (Tampa, FL) Top News of the Day, August 14, 2009.
- My research project highlighted on the National Weather Service’s website, “NWS Meteorologist Participates with USF Researchers to Quiz Motorists on Hurricane Evacuation Plans.” National Weather Service (Tampa, FL) Top News of the Day, July 24, 2009.
- My research highlighted in newsletter and on website, “Southwest Florida Warm Season Tornadoes.” Suncoast Weather Observer (Issue 1, vol 13: National Weather Service newsletter), summer 2009.
- Article about NSF funded Hurricane Research Experience for Undergraduates (REU) program and my students’ presentations on website, “Undergraduate Research Examines How Precarious Populations Weather Hurricanes.” USF News, July 20, 2009.
- Interviewed about evacuation study on TV news, “USF Students Getting the Skinny on Storm Evacuations.” Baynews9, July 3, 2009.
- Interviewed about evacuation study on TV news, “No Rest for USF Students at this Stop.” 10Connects (Tampa, FL), July 3, 2009.
- Interviewed about evacuation study on TV news, “Are you Ready for a Hurricane Evacuation?” ABC News (Tampa, FL), July 3, 2009.

- Interviewed about evacuation study on TV news, “Hurricane Evacuation.” Fox13 News (Tampa, FL), July 3, 2009.
- Interviewed on radio, “Hurricane Preparedness.” WUSF (NPR station for West Central Florida), July 3, 2009.
- Quoted and research highlighted on website, “USF Researchers to Quiz Motorists on Hurricane Evacuation Plans.” USF News, June 30, 2009.
- Article about my students’ successes on website, “Outlook is Sunny for Future Meteorologists.” USF News, April 16, 2009.
- Interviewed about Chief Meteorologist on TV news, “10 Connects Hero: Dick Fletcher Memorial Scholarship.” 10Connects (Tampa, FL), February 26, 2009.
- Quoted about weather conditions surrounding the tragic loss of football players in newspaper article, “One Found, Three Still Missing in Search for Boaters.” The Oracle (Tampa, FL), Student newspaper of USF, March 3, 2009.
- Quoted in newspaper article, “USF Students Aim High for Science Research and Education.” Temple Terrace Beacon (Tampa, FL), February 3, 2009.
- Quoted in newspaper article, “USF Student’s Science Project Aims for the Final Frontier.” The Tampa Bay Tribune (Tampa, FL), January 17, 2009.
- Quoted and research highlighted on 2 pages including the cover in newspaper article, “Study Explains 70-car I-4 Pileup.” The Tampa Bay Tribune (Tampa, FL), January 9, 2009.
- Interviewed on TV news, “Remembering Dick Fletcher.” 10Connects, February 26, 2008.
- Interviewed on radio, “Hurricane Season 2006.” WWBA 1040AM News Talk Radio, (Tampa, FL), November 28, 2006.
- Interviewed on live TV debate show, “Hurricanes and Global Warming.” Cathy Fountain Show (Fox 13), June 6, 2006.
- Interviewed on TV about NSF funded Hurricane Research Experience for Undergraduates (REU) program, “One Intense Course.” Bay News 9 (Tampa, FL), May 31, 2006.
- Article mentioning my involvement with the NSF funded Hurricane Research Experience for Undergraduates (REU), “USF Offers Students Unique Opportunity to Research Hurricane Impact.” USF News, May 1, 2006.
- Quoted and rooftop weather station highlighted in newspaper article, “USF Screens the Weather.” The Oracle (Tampa, FL), Student newspaper of USF, April 12, 2006.
- Quoted and interviewed on website, “USF Boasts Revamped Roof-Top Weather Station and Web Site.” USF News, March 31, 2006.
- Article on the winning Florida Geography Bowl team which I coached and the Southeastern Division of the Association of American Geographers, “Think Globally,” The Palm Beach Post (Palm Beach, FL), November 22, 2005.

## **COURSES TAUGHT/SUPERVISED**

### **Graduate**

|          |  |
|----------|--|
| GEO 6255 | Weather, Climate and Society, USF (also EVR 6936)                    |
| GEO 6970 | Research Methods, USF  |
| GLY 6739 | Selected Topics in Geology, USF                                      |
| EVR 6934 | Selected Topics in Environmental Science: Topics in Meteorology, USF |
| EVR 6971 | Thesis, Masters, USF   |
| GEO 6918 | Directed Research, USF   |
| GEO 6971 | Thesis, Masters, USF   |
| GEO 6908 | Independent Study, USF   |

|          |                                     |
|----------|-------------------------------------|
| GLY 6905 | Independent Study, USF              |
| GLY 7912 | Directed Research, USF              |
| EVR 6908 | Independent Study, USF              |
| GEO 6944 | Internship in Geography, USF        |
| GEO 7980 | Doctoral Dissertation Research, USF |

### Undergraduate

|                     |                     |   |   |
|---------------------|---------------------|---|---|
| <b>Upper-Level:</b> | MET 4012C           | Meteorology (previously 4010C), USF, also taught online                                 |   |
|                     | MET 4002C           | Climatology, USF  |   |
|                     | MET 4106C           | Climate Studies (online), USF   |   |
|                     | EVR 4930            | Weather Studies, USF  |   |
|                     | EVR 4930            | Environmental Science and Physical Geography in the UK: Study Abroad, USF               |   |
|                     | IDH 4930            | Hurricane Research Methods Seminar (Symposium coordinator and fieldtrip organizer), USF |   |
|                     | IDH 4950            | Honors Project, USF   |   |
|                     | IDH 4910            | Honors Directed Research, USF   |   |
|                     | GEO 4910            | Individual Research, USF  |   |
|                     | GEO 4940            | Geography Internship, USF   |   |
|                     | GEO 4900            | Directed Reading, USF   |   |
|                     | ISD 4914            | Adv Undergrad Research Exp  |   |
|                     | EVR 4905            | Independent Study, USF  |   |
|                     | GEO 4244            | Tropical Meteorology, USF (supervised)  |   |
|                     | MET 4002            | Climatology, USF (supervised)   |   |
|                     | 41.460              | Geographical Information Systems, Bloomsburg University                                 |   |
|                     | MT 4330             | Current Weather Seminar, Plymouth State University                                      |   |
|                     | <b>Lower Level:</b> | GEO 2200  | Introduction to Physical Geography (previously GEO 3013), USF   |
|                     |                     | EVR 2001  | Introduction to Environmental Science, USF  |
|                     |                     | GEO 2371  | Introduction to Earth Systems Science (online (summer 2010 and 2011) as well as classroom sections previously), USF |
| GEO 1930            |                     | Geography of Current Events, USF  |   |
| 41.125              |                     | Weather and Climate, Bloomsburg University  |   |
| 51.255              |                     | Meteorology, Bloomsburg University  |   |
| MT 2800             |                     | Climatology, Plymouth State University  |   |
| MT 1000             |                     | Weather, Plymouth State University  |   |
| MT 1000L            |                     | Weather Lab, Plymouth State University  |   |

### **POST DOCS SUPERVISED**

#### 1) Jinwoong Yoo

Jinwoong and I, with his former PhD advisor, published two articles together in the Professional Geographer from our research conducted while Yoo was a post-doc at USF (2011-2013). This research was under a grant I obtained which included and extended Yoo's work which stemmed from his PhD research. I served as supervisor of his research while at USF, supervisor of his teaching, and served as a mentor for professional development advice. We continued our collaboration after he left USF,

publishing an additional chapter together and article in the Professional Geographer. He now works for NASA.

2) Kevin Ash

Kevin joined USF as a post-doc in fall 2015. I served as his supervisor and as a mentor. He then accepted a position at UCAR and now has a tenure-track position at UF.

## GRADUATE STUDENTS

### PHD STUDENTS - GRADUATED

1) Michelle Saunders: PhD Major Advisor

Michelle graduated with her PhD (summer 2020) on the topic of the public's perception of radar. Michelle served as the Chapter Secretary for the WCFLAMS in 2015-2016 and was elected as Vice President 2016-2018. Michelle is the co-recipient of the West Central Florida Chapter of the AMS Dewey Stowers Award, 2016. Michelle served as the lead graduate student in the field on my Hurricane Matthew and Irma research and presented an aspect of the research at the 6<sup>th</sup> International Hurricane and Climate Change Summit, where she received 2<sup>nd</sup> place in the poster competition. She has several peer-reviewed papers published.

2) Charles Paxton

My role: PhD Major Advisor/ Professor, graduated spring 2014

Charles completed his PhD on the topic of rip currents (having published a book chapter during his PhD) while working as Science Operations Officer at the NWS. He received 1<sup>st</sup> place for the Graduate Student Paper of the Florida Society of Geographers' Conference 2010 and received a travel award from the Southeastern Division of the Association of American Geographers, 2009. He has presented at several geography and meteorological conferences while being my student and he has co-authored seven peer-reviewed papers with me and is one of the co-authors on my Florida Weather and Climate book. He now has his own consulting company.

3) Kamal Kumar Saha

My role: PhD Co-advisor/Professor

I was invited by Dr. Saleh Wasimi, Head of Program, Mathematics and Statistics, CQ University, Australia to co-advise a PhD student. Kamal completed his PhD on the topic of the statistical properties of tropical cyclones in Australia.

4) JoAnn Sullivan

My role: PhD Major Advisor

JoAnn graduated (summer, 2010). Dissertation title: "Characterization of an Urban Heat Island (UHI) in the Tampa, Florida Region." She was awarded the West Central Florida Chapter of the AMS Bert Wappler Award, 2007 and the West Central Florida Chapter of the AMS Dewey Stowers Award, 2008. She has also been awarded two awards from the Fred L. and Helen M. Tharp Endowed Scholarship Fund. JoAnn has published two peer-reviewed papers while at USF and under my supervision. After graduation, JoAnn secured a faculty position at Hobart and William Smith Colleges, NY (JoAnn is currently not working due to personal injury.)

- 5) Bryan Booth  
My role: PhD Co-Major Advisor/Professor, graduated fall 2015  
Bryan completed his PhD on the topic of the effects of chemical and physical weathering on submerged karst surfaces and is now followed his dream to be a science teacher.
- 6) Erick Ananga  
My role: PhD Committee Member  
Eric completed his dissertation on the role of community participation in water production and management: Lessons from sustainable aid in Africa international sponsored water schemes in Kisumu, Kenya, graduated fall 2015.
- 7) Nicole Hutton  
My role: Committee Member  
Nicole completed her dissertation on third sector organizations and their role in disaster recovery, graduated spring 2016.
- 8) Stephanie Powers  
My role: Committee Member  
Stephanie completed her thesis on technology used in habitat restoration monitoring in spring 2017.

#### **MASTERS STUDENTS – GRADUATED**

- 1) Christianne Pearce Jordan  
My role: Major Advisor/Professor, graduated in Summer 2019  
Christianne completed her thesis on the topic of hurricane evacuation and published her thesis work in a peer-reviewed journal.
- 2) Emily Cerrito  
My role: Major Advisor/Professor, graduated spring 2018  
Emily completed her thesis on the topic of past hurricanes and published her thesis work in a peer-reviewed journal where she is the first author.
- 3) Daniel Gessman  
My role: Major Advisor/Professor, graduated fall 2017  
Daniel completed his thesis on the topic of short-term forecasting of pollen levels, considering meteorological conditions. He then worked for the City of Bartow as a GIS Analyst, and is now at USF.
- 4) Kerri Dickey  
My role: Major Advisor/Professor, graduated fall 2017  
Kerri successfully defended her thesis on the topic of floods and vulnerabilities. She has a position now with NGA.
- 5) Leilani Paxton  
My role: Major Advisor/Professor, graduated fall 2016

Leilani completed her thesis on the topic of meteotsunamis. Leilani is the co-recipient of the West Central Florida Chapter of the AMS Dewey Stowers Award, 2016. Leilani has a book chapter published with me (2017). Leilani is now doing meteorological consultancy and completing her PhD with me.

6) Randall Hergert

My role: Masters Major Advisor/Professor, graduated fall 2015

Randall received some funding from the NOAA PAIG grant I received. Randall's topic was, "Saharan Air Layer Dust Loading: Effects on Convective Strength in Tropical Cloud Clusters." Randall is the West Central Florida Chapter of the AMS Dewey Stowers Award co-recipient, 2014. Randall served as Chapter Secretary for the WCFLAMS (2014-2015). Randall was offered a very competitive NWS Pathways position, and now works for the NWS, Albuquerque, NM.

7) Heather Key

My role: Major Advisor/Professor, graduated summer 2015

Heather received some funding from the NOAA PAIG grant. She is the recipient of the 2015 West Central Florida Chapter of the AMS Dewey Stowers Award. Heather served as Chapter Corresponding Secretary for the WCFLAMS (2014-2015). Her thesis research was on the physical and social influences of tornado fatalities.

8) Erin Floto

My role: Masters Major Advisor/Professor, graduated summer 2014

Erin graduated in summer 2014 with her thesis which focused on Florida Gulf Coast University's Residence Life Staff Member's Hurricane Preparedness." Erin currently works for the Environmental Protection Agency.

9) Matt Stanley

My role: Masters Major Advisor/Professor, graduated spring 2014

Matt examined hail in Florida. He is now a teacher.

10) Lindsay Rice

My role: Major Advisor/Professor, graduated spring 2014

Lindsay thesis research topic was Hurricane Sandy.

Lindsay is the West Central Florida Chapter of the AMS Dewey Stowers Award co-recipient, 2014. Lindsay currently works as an air quality specialist at Chicago Bridge and Iron in Monroeville, PA.

11) Kelsey Roberts

My role: Masters Major Advisor/Professor, graduated fall 2013

Kelsey examined the atmospheric conditions associated with cold-stun events of green sea turtles. She published one co-authored peer-reviewed paper with me, where she was the first author. She is completing her PhD at Monash University, Australia.

12) Justin Hartnett, MS

My role: Masters Major Advisor/Professor, graduated spring 2013

Justin examined lake-effect snowfall. Justin is the West Central Florida Chapter of the AMS Dewey Stowers Award recipient, 2012. Justin graduated from a funded GA

position at Syracuse University for his PhD and has accepted a position at SUNY Oneonta as a Visiting Professor in the Geography department. Justin received the Weisnet Medal at the Eastern Snow Conference in 2014 for a paper based on his thesis. He published one co-authored peer-reviewed paper with me, where he was the first author.

13) Ashley Weatherall, MS

My role: Masters Major Advisor, graduated spring, 2013

Ashley examined university hurricane preparedness. Ashley works with the USGS.

14) Jaime Auletta, MA

My role: Masters Co-Major Advisor/Professor, graduated summer 2012

Jaime's thesis was titled, "Disaster Vulnerability of University Student Populations."

Jaime currently works at the Alaskan Sealife Center.

15) Cristina Mazza, MS

My role: Masters Major Advisor/ Professor, graduated fall 2011

Cristina examined severe weather in Pinellas County. Cristina was elected into the position of Secretary for the West Central Florida Chapter of the American Meteorological Society (WCFLAMS), 2010. Cristina was recognized by the National Weather Association with an award for her presentation at the annual meeting in Tuscon, AZ (2010). Cristina received USF's 2012 Outstanding Thesis Award. She currently works as an Environmental Scientist at KB Environmental Sciences. She published one co-authored peer-reviewed paper with me, where she was the first author.

16) Trista Brophy

My role: Committee Member, graduated spring 2016

Trista completed her thesis on coastal water quality issues near the U.S./Mexico border.

17) Emeli Sandoval

My role: Committee Member, graduated spring 2015

Emeli completed her thesis on morphodynamics of Mullet Key, west-central Florida.

18) Christian Ercolani from FGCU

My role: Committee Member, graduated spring 2014

Christian completed his thesis on paleoclimatology. He currently is conducting his PhD with part of it at the University of Strasbourg and part of it at University of Wollongong.

19) Andrew Brownell

My role: Committee Member, graduated fall 2013

Andrew completed his thesis in fall 2013 on Tropical Storm Debby induced morphological changes on John's Pass and Blind Pass ebb tidal deltas and adjacent shoreline

20) Christina Makris

My role: Masters Committee Member non - thesis, graduated 2017

21) Jessica Bullock

My role: Masters Committee Member – non-thesis, graduated 2013

22) Sara Giunta Gonzalez

My role: Masters Committee Member - non-thesis, graduated 2013

Sara now works for the Florida Department of Environmental Protection as an Environmental Specialist II.

23) Gary Licquia

My role: Masters Committee Member - non-thesis, graduated 2013

Gary started his MBA at Georgia State University. He plans to study corporate social responsibility and corporate adaptation to climate change.

24) Dustin Hinkel

My role: Masters Committee Chair - non-thesis, graduated 2009

Dustin published a paper with me and now holds the position of Senior Consultant at Disasters, Strategies & Ideas Group, LLC after serving for many years as the Director of the Department of Emergency Management, Taylor County Board of County Commissioners (FL).

25) Ryan Rankin

My role: Masters Committee Member - non-thesis, graduated 2008

Ryan is currently a US Navy pilot and is currently on the USS Nimitz Aircraft Carrier.

26) Michael Ryan

My role: Masters Committee Member non - thesis, graduated 2008.

Michael is currently completing his PhD.

## **PhD STUDENTS - CURRENT**

1) Leilani Paxton – started PhD program in fall 2018

My role: PhD Major Advisor/ Professor

Leilani completed her MS thesis with me on the topic of meteotsunamis. Leilani is the co-recipient of the West Central Florida Chapter of the AMS Dewey Stowers Award, 2016. Leilani has a book chapter published with me (2017). Leilani is now doing meteorological consultancy and completing her PhD with me relating AI to weather.

2) Saurav Chakraborty – entered the program in fall 2016

My role: PhD Major Advisor/ Professor

Saurav applied to work with me to work on hurricanes and ENSO. He was appointed webmaster for the WCFLAMS (2017-2018 and 2018-2019).

3) Yijie Zhu – started PhD program in fall 2018

My role: PhD Major Advisor/ Professor

Yijie is the corresponding secretary for the WCFLAMS (2018-2019). His PhD focuses on inland impacts of tropical cyclones. Yijie has published with me.

4) Nodjidoumde Mbaigoto

My role: Committee Member



Nodjidoumde completed his PhD on the topic of Assessment and Integration of Socioeconomic and Demographic Factors in the Implementation of Integrated Water Resources Management in the Lake Chad Basin. Defending in fall 2020.

- 5) John Freeman  
My role: PhD Committee Member – ABD.

## **MASTERS STUDENTS - CURRENT**

- 1) Nathan Shull  
My role: MS Major Advisor/ Professor  
Nathan is completing his thesis on the topic of hurricane evacuation and shelters

## **UNDERGRADUATE STUDENTS (select)**

- 1) Alicia Williams  
My role: Advisor of Undergraduate Research, USF  
Alicia is a co-author on two of my peer-reviewed papers, “Florida Super Fog - Carnage on Interstate 4” and “South-West Florida Warm Season Tornadoes.” Alicia is the West Central Florida Chapter of the AMS Dewey Stowers Award recipient, 2009. She is also the Dick Fletcher Award recipient. She was elected Secretary (2009-2010) for the West Central Florida Chapter of the American Meteorology Society (WCFLAMS). She presented at the Southeastern Division of the Association of American Geographers (SEDAAG) conference (2008), AMS conference (2009), WCFLAMS (2009) and Applied Geography Conference (2009). Alicia is currently completing a Masters at Penn State.
- 2) Kortnie Pugh  
My role: Advisor of Undergraduate Research, USF  
Kortnie was involved in research on the topic of Climate Change in South America. She was offered a NWS *Student Career Experience Program* (SCEP) position. She presented at the American Geophysical Union (AGU) conference (2008) and AMS conference (2010). She was the West Central Florida Chapter of the AMS Dewey Stowers Award recipient, 2010. Kortnie was interviewed on WeatherNation regarding the 2012 hurricane season.
- 3) Shaza Hussein  
My role: Advisor of Undergraduate Research, USF  
Shaza was involved in research on the topic of hurricane evacuation. Shaza received USF’s First Udall Scholarship, 2012. Collins wrote a supporting letter and served on USF’s Scholarship Committee to provide students with a practice interview. Shaza has also received the David L. Boren Scholarship (2013), the Davis-Putter Fund (2013) and the Ernest F. Hollings (NOAA) Award. Shaza graduated from California Institute of Integral Studies with her masters in 2017 and is currently in a teaching fellowship while applying for PhD programs.

## 4) Amy Polen

My role: undergraduate thesis mentor

Amy has served as a lead student researcher on my Hurricane Matthew and Irma projects and presented an aspect of this work at the 6th International Hurricane and Climate Change Summit, where she was awarded 3<sup>rd</sup> prize in the student poster competition. She also received a 2<sup>nd</sup> place oral presentation award from the AAG Climate Specialty Group. She is the WCFLAMS Dewey Stowers Award co-recipient, 2017. She is a co-author on several peer-reviewed papers with me. She was selected on the NOAA Capitol Hill Scholars Program 2019. After graduating USF in just 2 years, she went onto LSU for her Masters. She is now back at USF and I continue to collaborate with Amy on recent projects. She serves as Co-PI on my NSF grant on hurricanes, evacuation, and COVID-19.

## 5) Noel Rehm

My role: undergraduate research mentor

Noel worked in my lab on an aspect of my Hurricane Matthew project. He is the WCFLAMS Dewey Stowers Award co-recipient, 2017. He became the Chief Meteorologist at a TV station in Texas within two years of graduating, then moved on to a broadcast position in Sarasota before recently accepting the position of 7 News Chief Meteorologist at KSWO in Lawton, Oklahoma.

## 6) Katherine Webb

My role: Professor and advisor of Geography Club (in which Katherine was an officer), USF

Katherine completed her Masters at the Climate Change institute at the University of Maine.

## 7) Haili Vinson

My role: Professor, USF

Haili received the West Central Florida Chapter of the AMS Dewey Stowers Award, 2007.

## 8) Joseph Phillips

My role: Hurricane Research Experience for Undergraduate Students' Mentor and Advisor, USF

Joe received a student award from the USF Undergraduate Symposium - 2<sup>nd</sup> place. The title of his undergraduate research paper was "Trends in Tropical Cyclone Numbers and Causes of their Interannual Variability," 2007.

## 9) Dustin Hinkel

My role: Major Advisor of Undergraduate Honors Research, USF

The title of Dustin's Undergraduate Honors Project was "Hurricane Vulnerable Populations in Ybor City." As an undergraduate, he presented at the Southeastern Division of the Association of American Geographers (SEDAAG) conference, 2007. Dustin continued at USF to complete his Masters (see above).

## 10) Tabitha Bray

My role: Professor and advisor/mentor, Plymouth State University

After doing an internship at the Mt. Washington Observatory (NH) and interning at the NWS, Tabitha now works for the NWS in Arkansas.

11) Kristin Michaud

My role: Professor and advisor/mentor, Plymouth State University

After being inspired from my general education class to continue with a Geography degree, Kristin completed her Graduate work at the University of Massachusetts and currently works at the Census Bureau in Washington DC.

12) Kehinde Adekoya

My role: PI of Research Experience for Undergraduate Program, USF

Kehinde joined my REU program from a community college (HCC) and entered Fisk University in 2020, an HBCU, where she received a Provost Scholarship. She was selected to present her research at the Council of Undergraduate Research and the Emerging Researchers National Conference, and she also presented her research at the Oklahoma University Water Conference. My REU grant helped fund her research and participation. She became a shadower at the National Weather Service assisting meteorologists at the National Weather Service with analyzing data. She also interned at Tampa Bay Water. After the REU, Kehinde received the Computer Science for Women Scholarship and she has since been selected for the Office of Career Planning and Development Ambassador Program at Fisk University.

13) Amanda Bowden

My role: Collins' role: PI of Research Experience for Undergraduate Program, USF

Amanda participated in my 2018 REU program. Since then she has served as team leader for AthensGAWeather.com and communicated with the general public on weather events in East Georgia through Facebook posts and broadcast recordings. She has also served as meteorologist and programmer for Golf Weather Website. She received a NOAA Pathway Program opportunity at the NWS WFO Guam (2019). This highly competitive program guarantees the student a full time position with NWS upon completion of her degree. As a student trainee meteorologist she worked at NWS Guam and assisted in writing Satellite Interpretation Messages, Area Forecast Discussions, and Terminal Aerodrome Forecasts, and attended meetings with Foreign Governments (Pacific Islands) about weather. Amanda has taken on numerous leadership roles in her organizations and has received numerous awards including the CDK Global and NAMAD "Fueling Careers" Scholarship (2017) and the North American Weather Modification Council Scholarship (2019).

**OTHER**

- I went on the hurricane hunter mission on a P-3 through Tropical Storm Kyle in 2008 and Hurricane Sandy in 2012 and I deployed dropsondes to gather atmospheric data.