

Curriculum Vita

Clark Evans

Personal Information

Current Address

UWM School of Freshwater Sciences
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Education

2009 **Ph.D., Florida State University, Meteorology**
2006 **M.S., Florida State University, Meteorology**
2004 **B.S. (Magna Cum Laude), Florida State University, Meteorology**

Professional Positions

Formal Appointments

2021-present **Professor**, Univ. of Wisconsin-Milwaukee, Milwaukee, WI
2021-present **Atmospheric Science Program Chair**, Univ. of Wisconsin-Milwaukee, Milwaukee, WI
2016-2021 **Associate Professor**, Univ. of Wisconsin-Milwaukee, Milwaukee, WI
2014-2020 **Atmospheric Science Program Chair**, Univ. of Wisconsin-Milwaukee, Milwaukee, WI
2011-2016 **Assistant Professor**, Univ. of Wisconsin-Milwaukee, Milwaukee, WI
2009-2011 **Postdoctoral Fellow**, UCAR/Advanced Study Program, Boulder, CO
2004 **Research Assistant**, FSU/Florida Climate Center, Tallahassee, FL
2003-2004 **Undergraduate Research Assistant**, Florida State Univ., Tallahassee, FL

Affiliate/Visiting Appointments

2019-present **Affiliate Faculty**, Northwestern Mutual Data Science Institute, Milwaukee, WI
2018 **Visiting Scientist**, NOAA/NWS/Storm Prediction Center, Norman, OK
2013 **Visiting Scientist**, NCAR/Mesoscale and Microscale Meteorology Lab, Boulder, CO
2012 **Visiting Scientist**, NOAA/NWS/National Hurricane Center, Miami, FL

Awards and Honors

2021 **Office of Research/UWM Foundation Research Award**, Univ. of Wisconsin-Milwaukee
2021 **Faculty Distinguished University Service Award**, Univ. of Wisconsin-Milwaukee
2018 **Editors' Award**, *Monthly Weather Review* and *Weather and Forecasting*
2018 **Invited Participant**, Inaugural AMS Early Career Leadership Academy
2009 **Ph.D. Poster Competition Winner**, American Meteorological Society 23rd Conf. on Weather Analysis and Forecasting/19th Conf. on Numerical Weather Prediction
2004 **Recipient**, American Meteorological Society Father James B. Macelwane Undergraduate Research Award
2004 **Recipient**, American Meteorological Society/Industry/Government Graduate Fellowship (Sponsored by the Office of Naval Research)

Peer-Reviewed Publications

(*italicized* = advised student)

A citation listing is available on my [Google Scholar](#) page.

Blount, D. V., C. Evans, I. L. Jirak, A. R. Dean, and S. Kravtsov, 2023: An objective method for clustering observed vertical thermodynamic profiles by synoptic meteorological conditions. Wea. Forecasting, in review.

Kaminski, A. N., and coauthors, 2023: A 30-year climatology of northeastern United States atmospheric rivers. J. Appl. Meteor. Climatol., in press.

Vossen, M. P., and C. Evans, 2023: Thermodynamics of overland tropical cyclone intensity change in weakly/non-baroclinic environments. J. Atmos. Sci., in review.

*Prince, K. C., and C. Evans, 2022: [Convectively generated negative potential vorticity enhancing the jet stream through an inverse energy cascade during the extratropical transition of Hurricane Irma](#). J. Atmos. Sci., **79**, 2901–2918.*

Sarro, G. M., and C. Evans, 2022: [An updated investigation of post-transformation intensity, structural, and duration extremes for extratropically transitioning North Atlantic tropical cyclones](#). Mon. Wea. Rev., in press.

Schultz, D. M., and coauthors, 2022: How to be a more effective author. Mon. Wea. Rev., in press.

*Prince, K. C., and C. Evans, 2020: [A climatology of indirect tropical cyclone interactions in the North Atlantic and western North Pacific basins](#). Mon. Wea. Rev., **148**, 4035–4059.*

*Schaffer, J. D., P. J. Roebber, and C. Evans, 2020: [Development and evaluation of an evolutionary programming-based tropical cyclone intensity model](#). Mon. Wea. Rev., **148**, 1951–1970.*

Evans, C., S. J. Weiss, I. L. Jirak, A. R. Dean, and D. S. Nevius, 2018: [An evaluation of paired regional/convection-allowing forecast vertical thermodynamic profiles in warm-season, thunderstorm-supporting environments](#). Wea. Forecasting, **33, 1547–1566.**

*Nevius, D. S., and C. Evans, 2018: [The influence of vertical advection discretization in the WRF-ARW model on capping inversion representation in warm-season, thunderstorm-supporting environments](#). Wea. Forecasting, **33**, 1639–1660.*

*Prince, K. C., and C. Evans, 2018: [A climatology of extreme South American Andean cold surges](#). J. Appl. Meteor. Climatol., **57**, 2297–2315.*

*Burlingame, B. M., C. Evans, and P. J. Roebber, 2017: [The influence of PBL parameterization on the practical predictability of convection initiation during the Mesoscale Predictability Experiment \(MPEX\)](#). Wea. Forecasting, **32**, 1161–1183.*

Evans, C., and coauthors: 2017: [The extratropical transition of tropical cyclones. Part I: cyclone evolution and direct impacts](#). Mon. Wea. Rev., **145, 4317–4344.**

*Grunzke, C. T., and C. Evans, 2017: [Predictability and dynamics of warm-core mesoscale vortex formation with the 8 May 2009 "super derecho" event](#). Mon. Wea. Rev., **145**, 811–832.*

- Keclik, A. M., C. Evans, P. J. Roebber, and G. S. Romine, 2017: [The influence of assimilated upstream, pre-convective dropsonde observations on ensemble forecasts of convection initiation during the Mesoscale Predictability Experiment](#). *Mon. Wea. Rev.*, **145**, 4747–4770.
- Karloski, J. M., and C. Evans, 2016: [Seasonal influences upon and long-term trends in the length of the Atlantic hurricane season](#). *J. Climate*, **29**, 273–292.
- Manion, A., C. Evans, T. L. Olander, C. S. Velden, and L. D. Grasso, 2015: [An evaluation of Advanced Dvorak Technique-derived tropical cyclone intensity estimates during extratropical transition using synthetic satellite imagery](#). *Wea. Forecasting*, **30**, 984–1009.
- Weisman, M. L., and coauthors, 2015: [The Mesoscale Predictability Experiment \(MPEX\)](#). *Bull. Amer. Meteor. Soc.*, **96**, 2127–2149.
- Burghardt, B., C. Evans, and P. Roebber, 2014: [Assessing the predictability of convection initiation across the High Plains using an object-based approach](#). *Wea. Forecasting*, **29**, 403–418.
- Evans, C., D. F. Van Dyke, and T. Lericos, 2014: [How do forecasters utilize output from a convection-permitting ensemble forecast system? Case study of a high-impact precipitation event](#). *Wea. Forecasting*, **29**, 466–486.
- Evans, C., M. L. Weisman, and L. F. Bosart, 2014: [Development of an intense, warm-core mesoscale vortex associated with the 8 May 2009 “super derecho” convective event](#). *J. Atmos. Sci.*, **71**, 1218–1240.
- Weisman, M. L., **C. Evans**, and L. F. Bosart, 2013: [The 8 May 2009 “super derecho”: analysis of a realtime explicit convective forecast](#). *Wea. Forecasting*, **28**, 863–892.
- Evans, C., and coauthors, 2012: [The PRE-Depression Investigation of Cloud-systems in the Tropics \(PREDICT\) field campaign: perspectives of early career scientists](#). *Bull. Amer. Meteor. Soc.*, **93**, 173–187.
- Evans, C., R. S. Schumacher, and T. J. Galarnau, Jr., 2011: [Sensitivity in the overland reintensification of Tropical Cyclone Erin \(2007\) to near-surface soil moisture characteristics](#). *Mon. Wea. Rev.*, **139**, 3848–3870.
- Evans, C., and R. E. Hart, 2008: [Analysis of the wind field evolution associated with the extratropical transition of Bonnie \(1998\)](#). *Mon. Wea. Rev.*, **136**, 2047–2065.
- Hart, R. E., J. L. Evans, and **C. Evans**, 2006: [Synoptic composites of the extratropical transition lifecycle of North Atlantic tropical cyclones: factors determining post-transition evolution](#). *Mon. Wea. Rev.*, **134**, 553–578.

Funded Grants and Contracts

- 2022-2025** **U.S. Department of Energy**
 “Establishing a Holistic Understanding of the Circulations of Mesoscale Convective System Stratiform Regions.” Award #DE-SC0023057; \$716,831 (\$276,265 to UWM); 8/1/22-7/31/25. Co-PI; lead PI: R. Adams-Selin (AER).

- 2021-2023 National Science Foundation**
 "CC* Compute: A Balanced Cluster for Science and Engineering in the Great Lakes Region." OAC-2126229; \$400,000; 10/1/21-9/30/23. Co-PI; lead PI: P. Chang.
- 2021-2022 Unidata Equipment Program**
 "Upgrading THREDDS and Deploying JupyterHub at the University of Wisconsin-Milwaukee to Support Education and Research." \$10,672; 6/1/21-5/31/22.
- 2019-2022 National Science Foundation**
 "Thermodynamics of Tropical Cyclone Overland Maintenance and Intensification." AGS-1911671; \$408,577; 6/1/19-5/31/22.
- 2019-2021 National Oceanic and Atmospheric Administration**
 "VORTEX-SE: Quantifying the Influence of Sea-Surface Temperature Uncertainty on Cool-Season Severe Weather Events." NA19OAR4590208; \$203,527; 9/1/19-8/31/21.
- 2018-2020 National Oceanic and Atmospheric Administration**
 "Round 3 of R2O Initiative – NOAA Testbeds: Evaluation of GFS-FV3 Vertical Profile and Thermodynamic Environment Fidelity." NA18NWS4680062; \$210,369 (\$190,369 to UWM); 9/1/18-8/31/20. Lead PI; co-PI: I. L. Jirak (NOAA/NWS/SPC).
- 2018-2019 UWM Research Growth Initiative**
 "A Climatology of Indirect Tropical Cyclone Interactions." \$55,243; 7/2/18-7/1/19.
- 2017-2019 National Oceanic and Atmospheric Administration**
 "FY 2017 Joint Hurricane Testbed: Evolutionary programming for probabilistic tropical cyclone intensity forecasts." NA17OAR4590137; \$199,527; 7/1/17-6/30/19. Co-PI; lead PI: P. Roebber.
- 2015-2018 National Science Foundation**
 "Collaborative Research: SI2-SSI: Big Weather Web: A common and sustainable big data infrastructure in support of weather prediction research and education in universities." ACI-1450439; \$2,000,000 (\$164,381 to UWM); 8/1/15-7/31/18. Co-PI; lead PIs: C. Maltzhan (UC-Santa Cruz).
- 2015-2016 Unidata Equipment Program**
 "Deployment of AWIPS-II at the University of Wisconsin-Milwaukee." \$11,908, 6/1/15-5/31/16.
- 2014-2017 National Science Foundation**
 "Numerical Assessment of the Practical and Intrinsic Predictability of Warm-Season Convection Initiation Using Mesoscale Predictability Experiment (MPEX) Data." AGS-1347545; \$456,206; 6/1/14-5/31/17. Lead PI; co-PI: P. Roebber.
- 2012-2013 UWM Graduate School Research Committee**
 "An Assessment of Thunderstorm Development Forecast Successes and Failures from Very High Resolution Numerical Weather Forecasts." \$12,611; 7/1/12-6/30/13.
- 2012-2013 Unidata Equipment Program**
 "Installation of RAMADDA, THREDDS, and LDM at UWM." \$7,177; 6/1/12-5/31/13. Co-PI; lead PI: P. Roebber.

2011-2012 COMET Partners Program

"Extreme Precipitation Across the Tallahassee, FL NWS Forecast Area Associated with Tropical Storm Fay (2008): Physical Understanding and Ensemble-Based Forecast Utility." \$9,990; 7/13/11-8/31/12. Lead PI; co-PI: D. Van Dyke (NOAA/NWS).

Teaching Experience

Upper- and graduate-level courses at UWM are typically offered once every two years. The year in which I last taught a given course is listed below.

2022	Introductory Atm Sci Seminar	(Atm Sci 101, Univ. of Wisconsin-Milwaukee)
2022	Synoptic Meteorology I	(Atm Sci 360, Univ. of Wisconsin-Milwaukee)
2022	Tropical Meteorology	(Atm Sci 470, Univ. of Wisconsin-Milwaukee)
2021	Num. Weather Prediction	(Atm Sci 730, Univ. of Wisconsin-Milwaukee)
2019	Synoptic Meteorology II	(Atm Sci 361, Univ. of Wisconsin-Milwaukee)
2017	Mesoscale Meteorology	(Atm Sci 460, Univ. of Wisconsin-Milwaukee)
2016	First-Year Seminar	(Atm Sci 194, Univ. of Wisconsin-Milwaukee)
2014	Survey of Meteorology	(Atm Sci 100, Univ. of Wisconsin-Milwaukee)
2008	Current Weather Discussion	(MET 3520, Florida State University)

Advised Students

Graduate Students

2022-present	Danica Brezovar	(M.S. expected 2024; co-advised with J. Kahl)
2022-present	Collin DeYoung	(M.S. expected 2024)
2021-present	Ariel Tickner-Ernst	(M.S. expected 2023)
2020-2021	Michelle Spencer	(M.S., 2021, now pursuing Ph.D. at Univ. of Oklahoma)
2019-present	Dillon Blount	(M.S., 2021; Ph.D. expected 2025)
2019-present	Michael Vossen	(M.S., 2021; Ph.D. expected 2025)
2017-2019	Jesse Schaffer	(M.S.; M.Ed. 2022, George Mason Univ.)
2016-2022	Kevin Prince	(M.S., 2018, Ph.D. 2022; now NRC Post-Doc Fellow)
2016-2018	Aidan Kuroski	(M.S.; now with NWS, Milwaukee/Sullivan, WI)
2016-2018	David Nevius	(M.S.; now with Delta Airlines, Atlanta, GA)
2015-2017	Caitlin Crossett	(M.S.; Ph.D. 2022, Univ. of Vermont)
2014-2016	Alexandra Keclik (Kelly)	(M.S.; now with NWS, Kansas City, MO)
2014-2016	Bryan Burlingame	(M.S.; now with SocialSweet, Inc., Milwaukee, WI)
2014-2016	Caleb Grunzke	(M.S.; now with NWS, Twin Cities/Chanhassen, MN)
2013-2015	Juliana Karloski	(M.S.; now with Space Center Houston, Houston, TX)
2012-2014	Alex Manion	(M.S.; now with NWS, Detroit/Pontiac, MI)
2011-2013	Brock Burghardt	(M.S.; Ph.D. 2017, Texas Tech Univ.)

I have also served on the Ph.D. dissertation committee for six UWM students and M.S. thesis committee for nineteen UWM students.

Undergraduate Students

2022-present	Drew Hickok	
2018-2021	Anna Kaminski	(2021 AMS Father James B. Macelwane Awardee)
2018-2020	Giorgio Sarro	(2020 AMS Father James B. Macelwane Awardee)
2018	Marie Freres	
2010	Dereka Carroll-Smith	(as SOARS Research Mentor at NCAR)

I have also advised eleven senior undergraduate capstone projects and co-advised two high-school seniors on introductory research.

Professional Service

National/International Service (Excludes Conference Session Chairing/Organizing)

2023-present **Commissioner**, AMS Scientific and Technological Activities Commission
2022-present **Co-Chair**, AMS Future of Meetings Taskforce
2022-present **Member**, AMS Future of Meetings Taskforce
2021-2023 **Chair**, AMS Committee on Weather Analysis and Forecasting
2021 **Chair**, AMS Weather Analysis and Forecasting Statement Revision Team
2021 **Member**, NCEP Strategic Planning Team
2021 **Member**, AMS 102nd Annual Meeting Health and Safety Task Force
2021 **Panelist**, 20th Annual AMS Student Conference
2020-2022 **Chair**, AMS Annual Meeting Oversight Committee
2020-present **Member**, UCAR Membership Committee
2020-present **Member**, Developmental Testbed Center Science Advisory Board
2020 **Panelist**, 8th Annual AMS Conference for Early Career Professionals
2019-present **Editor**, *Monthly Weather Review*
2019-2022 **Member**, AMS Annual Meeting Oversight Committee
2018-2021 **Vice Chair**, AMS Committee on Weather Analysis and Forecasting
2018 **Rapporteur**, 9th WMO International Workshop on Tropical Cyclones
2018 **Organizer**, AMS Special Symposium on Impact-Based Decision Support Services
2017 **Member**, AMS 28th Conf. on WAF/24th Conf. on NWP Program Committee
2016-2023 **Member**, AMS Committee on Weather Analysis and Forecasting
2016, 2012 **Member**, AMS Max Eaton Award Selection Committee
2015 **Panelist**, 14th Annual AMS Student Conference
2015 **Member**, 17th Cyclone Workshop Science Committee
2014 **Member**, 8th WMO International Workshop on Tropical Cyclones Working Group
2013-2015 **Member**, AMS Weather Analysis and Forecasting Statement Revision Team
2013 **Panelist**, 1st Annual AMS Conference for Early Career Professionals
2012-2018 **Associate Editor**, *Monthly Weather Review*
2012 **Rapporteur**, 4th WMO International Workshop on Extratropical Transition
2010 **Member**, 7th WMO International Workshop on Tropical Cyclones Working Group
2010 **Member**, AMS 25th Conf. on Severe Local Storms Program Committee
2010 **Member**, AMS 29th Conf. on Hurricanes/Tropical Meteor. Program Committee

University-Level Service

2021-present **Faculty Advisor**, The Climate Consensus at UWM
2020-present **Member**, UWM Research Computing Steering Group
2020-2021 **Member**, 2030 Implementation Team Undergraduate Experience Working Group
2018-2020 **Member**, UWM Information Technology Policy Committee
2014 **Coordinator**, UWM StormReady Initiative (renewed in 2017 and 2020)
2012-present **UCAR Member Representative**, Univ. of Wisconsin-Milwaukee
2011-present **Local Manager**, WxChallenge Forecasting Competition
2011-present **Faculty Co-Advisor**, UWM Atmospheric Science Club

Department/School/College-Level Service

2022-present **Co-Chair**, UWM Freshwater Sciences Academic Program & Curriculum Committee
2021-present **Member**, UWM Freshwater Sciences Academic Program & Curriculum Committee
2021-2022 **Member**, UWM Freshwater Sciences Climate/Water Asst. Prof. Search Committee

2017-2019 **Student Recruitment Ambassador**, UWM College of Letters and Science
2017-2019 **Member**, UWM Mathematical Sciences Strategic Planning Committee
2017-2018 **Member**, UWM Mathematical Sciences Undergraduate Committee
2017-2018 **Member**, UWM Mathematical Sciences Department Manager Search Committee
2017-2018 **Member**, UWM Mathematical Sciences Merit Committee
2017-2018 **Chair**, UWM Mathematical Sciences Visiting Assistant Professor Search Committee
2016-2017 **Member**, UWM Mathematical Sciences Assessment Committee
2014-2020 **Member**, UWM Mathematical Sciences Graduate Committee
2013-2014 **Chair**, UWM Mathematical Sciences Event Organizing Committee
2011-2016 **Member**, UWM Mathematical Sciences Colloquium Committee
2011-2016 **Member**, UWM Mathematical Sciences Event Organizing Committee
2010-2011 **Organizer**, UCAR/NCAR/MMM 'Dynamics Happy Hour' Seminar Series
2009-2011 **Member**, UCAR/NCAR/ASP Seminar Organizing Committee

Community Service

2018-2020 **Participant**, ESWN Science-a-Thon #dayofscience
2016-present **Trustee**, Village of Grafton, WI Joint Library Board
2014-2015 **Member**, Village of Grafton, WI Bicycle and Pedestrian Plan Committee

Journal and Proposal Reviewer

Bulletin of the American Meteorological Society
Climate Dynamics
Developmental Testbed Center
Geophysical Research Letters
Journal of Applied Meteorology and Climatology
Journal of Climate
Journal of Geophysical Research-Atmospheres
Journal of Geophysical Research-Oceans
Journal of Operational Meteorology
Journal of the Atmospheric Sciences
Monthly Weather Review
National Environment Research Council (UK)
National Science Foundation (USA)
Nature Communications
Quarterly Journal of the Royal Meteorological Society
Weather and Forecasting

I have also been a reviewer for two tenure and promotion to Associate Professor cases in external Atmospheric Science programs.

Invited Colloquia and Presentations

2022 **6th Midwest Student Conference on Atmospheric Research**
 "The Extratropical Transition of Tropical Cyclones (and Assorted Career Musings)"

2019 **IOGP Metocean Committee**
 "Tropical Cyclone Impacts at Higher Latitudes in a Warming World"

2018 **NOAA/NWS/Storm Prediction Center**
 "A Preliminary Evaluation of Paired Regional/Convection-Allowing Model-Forecast Vertical Profiles in Warm-Season, Thunderstorm-Supporting Environments"

- 2018** **Northern Illinois Univ., Dept. of Geography**
 “The Rear-Inflow Jet Evolution of Idealized, Mature Mesoscale Convective Systems”
- 2018** **Greater Milwaukee Chapter of the AMS**
 “The Harvey-Irma-Maria Hurricanes: An Atlantic Hurricane Season Retrospective”
- 2017** **St. Cloud State Univ., Dept. of Atmospheric and Hydrologic Sciences**
 “The Rear-Inflow Jet Evolution of Idealized, Mature Mesoscale Convective Systems”
- 2016** **Lyndon State College, Dept. of Atmospheric Sciences**
 “Understanding Trends in and Controls on Atlantic Hurricane Season Length”
- 2016** **Univ. of Wisconsin-Madison, Dept. of Atmospheric and Oceanic Sciences**
 “On the Short- to Medium-range Predictability of Thunderstorm Formation”
- 2015** **Greater Milwaukee Chapter of the AMS**
 “How do Forecasters Utilize Ensembles? Case Study of a High-Impact Event”
- 2014** **Central Michigan Univ., Dept. of Earth and Atmospheric Sciences**
 “The Predictability of Mesoscale Convective Phenomena”
- 2014** **Omaha/Offutt Chapter of the AMS/NWA**
 “How do Forecasters Utilize Output from a Convection-Permitting Ensemble Forecast System? Case Study of a High-Impact Precipitation Event”
- 2014** **Univ. of Georgia, Dept. of Geography**
 “Oklahoma’s Tropical Storm: The Curious Case of T.S. Erin’s Inland Reintensification”
- 2013** **Greater Milwaukee Chapter of the AMS**
 “Anatomy of a Superstorm: Birth, Evolution, and Impacts of Hurricane Sandy (2012)”
- 2012** **Univ. of Wisconsin-Milwaukee, Atmospheric Science Club**
 Fall: “The 8 May 2009 ‘Super Derecho’: A High-Impact Convective Event”
 Spring: “A Primer on Numerical Weather Prediction and Ensemble Modeling”
- 2011** **Florida State Univ., Dept. of Earth, Ocean, and Atmospheric Science**
 “A Unique Pathway to Tropical Cyclogenesis: Tropical Storm Erin (2007)”
- 2010** **Univ. of Wisconsin-Milwaukee, Dept. of Mathematical Sciences**
 “A Unique Pathway to Tropical Cyclogenesis: Tropical Storm Erin (2007)”
- 2009** **NCAR, Mesoscale and Microscale Meteorology Division**
 “The Thermodynamic Evolution of Recurving Tropical Cyclones”
- 2007** **Bermuda Institute of Ocean Sciences, RPI Research Update**
 “Development of Anomalous Probability Forecasts for the Threat of Higher Latitude Hurricane Impacts”

I have also been interviewed by local television and radio, national and international media, and UWM over thirty times since 2012.

Invited Workshops and Meteorological Testbeds

- 2022** **NOAA Hazardous Weather Testbed Spring Forecasting Experiment (10 times in total)**
NOAA/NSSL and NOAA/NWS/SPC, Norman, OK
- 2022** **Mind the Gap 2 Workshop**
Natl. Science Foundation, Amer. Meteor. Society, and Univ. at Albany, Albany, NY
- 2022, 2020** **EarthCube Research Coordination Network "What About Model Data?" Workshops**
Univ. of North Dakota, Grand Forks, ND and UCAR, Boulder, CO
- 2012** **"Shaping the Development of EarthCube to Enable Advances in Data Assimilation and Ensemble Prediction" Workshop**
Unidata/National Science Foundation, Boulder, CO
- 2006** **"The Challenge of Convective Forecasting" Summer Colloquium**
UCAR/Advanced Study Program, Boulder, CO

Presentations

(advised student)

2023

- Blount, D. V., **C. Evans**, and R. D. Adams-Selin, 2023: A preliminary analysis of low-frequency gravity wave, line-end vortex, and environmental flow contributions to rear-to-front flow in observed MCSs. *Abstract, 3rd Symp. on Mesoscale Processes*, Denver, CO, Amer. Meteor. Soc.
- Brown, G. R. H., and coauthors, 2022: The Climate Consensus network – empowering current and future scientists to engage in climate outreach within our universities. *Abstract, 32nd Conf. on Education*, Denver, CO, Amer. Meteor. Soc.
- Hickok, A. O., M. P. Vossen, and **C. Evans**, 2023: Towards an updated climatology of overland tropical cyclone maintenance and intensification in non-/weakly baroclinic environments. *Abstract, 22nd Annual Student Conference*, Denver, CO, Amer. Meteor. Soc., TBD.
- Prince, K. C., and **C. Evans**, 2023: Convectively generated negative potential vorticity enhancing the jet stream through an inverse energy cascade during the extratropical transition of Hurricane Irma. *Abstract, 5th Spec. Symp. on Tropical Meteorology and Tropical Cyclones*, Denver, CO, Amer. Meteor. Soc., 14.4.
- Tickner-Ernst, A. R., and **C. Evans**, 2023: Predictability of the overland reintensification of North Atlantic Tropical Storm Erin (2007). *Abstract, 5th Spec. Symp. on Tropical Meteorology and Tropical Cyclones*, Denver, CO, Amer. Meteor. Soc.
- Vossen, M. P., and **C. Evans**, 2023: Thermodynamics of overland tropical cyclone intensity change in weakly/non-baroclinic environments. *Abstract, 5th Spec. Symp. on Tropical Meteorology and Tropical Cyclones*, Denver, CO, Amer. Meteor. Soc., 8.4.

2022

- Adams-Selin, R. D., J. Mascio, and **C. Evans**, 2022: Establishing a holistic understanding of the circulations of mesoscale convective system stratiform regions. *Abstract, 2022 Joint Atmospheric Radiation Measurement (ARM) User Facility/Atmospheric System Research (ASR) Principal Investigators Meeting*, Rockville, MD, P4.58.
- Blount, D. V., **C. Evans**, I. L. Jirak, A. Dean, and S. Kravtsov, 2022: An objective vertical thermodynamic profile shape classification method: formulation and application to forecast verification. *Abstract, 31st Conf. on Weather Analysis and Forecasting/27th Conf. on Numerical Weather Prediction*, Houston, TX, Amer. Meteor. Soc., J14.1.

- Hanrahan, J., and coauthors, 2022: Building capacity for climate change outreach: supporting, encouraging, and inspiring scientists within our academic institutions. *Abstract, 2022 Earth Educators Rendezvous*, Minneapolis, MN, Natl. Assoc. of Geoscience Teachers.
- Hanrahan, J., and coauthors, 2022: Creating a multi-institution outreach network to improve climate literacy. *Abstract, 10th Symp. on the Weather, Water, and Climate Enterprise*, Houston, TX, Amer. Meteor. Soc., 274.
- Hanrahan, J., and coauthors, 2022: The Climate Consensus network – creating capacity for climate outreach within our universities. *Abstract, AGU Fall Meeting*, Chicago, IL, ED15C-0376.
- Metz, N. D., and coauthors, 2022: Atmospheric rivers over the Northeast United States. *Abstract, AGU Fall Meeting*, Chicago, IL, A55M-1275.
- Prince, K. C., **C. Evans**, and S. Kravtsov, 2022: A case-study analysis of convective-scale contributions to tropical cyclones' interactions with the midlatitude waveguide. *Abstract, 35th Conf. on Hurricanes and Tropical Meteorology*, New Orleans, LA, Amer. Meteor. Soc., 13C.3.
- Prince, K. C., **C. Evans**, and S. Kravtsov, 2022: A case-study analysis of convective-scale contributions to tropical cyclones' interactions with the midlatitude waveguide. *Abstract, MeteoXchange ECS Conference*, Virtual/Online, Germany Federal Ministry of Education and Research, 5.1.
- Prince, K., and **C. Evans**, 2022: The importance of convective-scale processes in a recent tropical cyclone-midlatitude waveguide interaction. *Abstract, 31st Conf. on Weather Analysis and Forecasting/27th Conf. on Numerical Weather Prediction*, Houston, TX, Amer. Meteor. Soc., J9.1.
- Spencer, M. R., and **C. Evans**, 2022: The influence of mesoscale sea-surface temperature uncertainty on short-range forecasts of cold-season southeast United States severe weather events. *Abstract, 19th Conf. on Mesoscale Processes*, Houston, TX, Amer. Meteor. Soc., 11.5.
- Spencer, M. R., and **C. Evans**, 2022: The influence of mesoscale sea-surface temperature uncertainty on short-range forecasts of cold-season southeast United States severe weather events. *Abstract, 30th Conf. on Severe Local Storms*, Santa Fe, NM, Amer. Meteor. Soc., 407141.
- Vossen, M. P., and **C. Evans**, 2022: An investigation of thermodynamic maintenance and intensification mechanisms of tropical cyclones over land. *Abstract, 31st Conf. on Weather Analysis and Forecasting/27th Conf. on Numerical Weather Prediction*, Houston, TX, Amer. Meteor. Soc., 1A.5.
- Vossen, M. P., and **C. Evans**, 2022: Thermodynamics of overland tropical cyclone intensity change in weakly/non-baroclinic environments. *Abstract, 35th Conf. on Hurricanes and Tropical Meteorology*, New Orleans, LA, Amer. Meteor. Soc., 14B.5.

2021

- Blount, D. V., **C. Evans**, I. L. Jirak, and A. Dean, 2021: Verifying GFS short-range-forecast vertical thermodynamic profiles using an objective profile-shape classification method. *Abstract, 11th Conf. on Transition of Research to Operations*, New Orleans, LA, Amer. Meteor. Soc., 5A.7.
- Kaminski, A. N., and **C. Evans**, 2021: Toward a satellite-based cyclone classification routine: a modern 3-yr climatology of North Atlantic and western North Pacific extratropical cyclones. *Abstract, 20th Student Conference*, New Orleans, LA, Amer. Meteor. Soc., 26.
- Kaminski, A. N., and **C. Evans**, 2021: A modern 3-year climatology of North Atlantic and Western North Pacific extratropical cyclones. *Abstract, 13th UWM Undergraduate Research Symposium*, Milwaukee, WI.

- McDermid, S., and coauthors, 2021: Creating a multi-institution outreach network to improve climate literacy. *Abstract, 2021 AGU Fall Meeting*, New Orleans, LA, Amer. Geophys. Union, SY45F-0818.
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Hart, R. E., J. L. Evans, and **C. Evans**, 2005: Synoptic composites of the ET lifecycle of North Atlantic TCs: Factors determining post-transition evolution. *Proceedings, 3rd Intl. Workshop on Extratropical Transition*, Perth, Australia.

Hart, R. E., J. L. Evans, and **C. Evans.**, 2005: Synoptic composites of the extratropical transition lifecycle of North Atlantic tropical cyclones: factors determining post-transition evolution. *Extended Abstract, 21st Conf. on Weather Analysis and Forecasting/17th Conf. on Numerical Weather Prediction*, Washington, D.C., Amer. Meteor. Soc., 6B.3.

Professional Memberships & Honor Societies

2010-2012	American Geophysical Union
2005	Chi Epsilon Pi, Florida State University Chapter
2004	Phi Beta Kappa, Alpha Chapter of Florida
2003	National Society of Collegiate Scholars
2002-present	American Meteorological Society