

Curriculum Vita

Clark Evans

Personal Information

Current Address

UWM School of Freshwater Sciences
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Last Updated: 3 November 2021

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 , <i>Monthly Weather Review</i> and <i>Weather and Forecasting</i>
2018	Invited Participant , Inaugural AMS Early Career Leadership Academy
2009	Ph.D. Poster Competition Winner , American Meteorological Society 23 rd Conf. on Weather Analysis and Forecasting/19 th 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, 2022: An environment-insensitive method for classifying vertical thermodynamic profile shapes. J. Appl. Meteor. Climatol., in preparation.

Crossett, C. C., and C. Evans, 2022: An examination of the rear-inflow jet evolution associated with an idealized mesoscale convective system. J. Atmos. Sci., in preparation.

Kaminski, A. N., and coauthors, 2022: A 30-year climatology of northeastern United States atmospheric rivers. J. Appl. Meteor. Climatol., in preparation.

Sarro, G. M., and C. Evans, 2022: An updated investigation of post-transformation intensity, structural, and timing extremes for extratropically transitioning North Atlantic tropical cyclones. Mon. Wea. Rev., in preparation.

Vossen, M. P., and C. Evans, 2022: Thermodynamics of overland tropical cyclone intensity change in weakly/non-baroclinic environments. J. Atmos. Sci., in preparation.

*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. Galarneau, 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

- | | |
|------------------|---|
| 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.
- 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.

2021	Num. Weather Prediction	(Atm Sci 730, Univ. of Wisconsin-Milwaukee)
2020	Tropical Meteorology	(Atm Sci 470, Univ. of Wisconsin-Milwaukee)
2019	Synoptic Meteorology II	(Atm Sci 361, Univ. of Wisconsin-Milwaukee)
2018	Synoptic Meteorology I	(Atm Sci 360, 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

2021-present	Ariel Tickner-Ernst	(M.S. expected Spring 2023)
2020-present	Michelle Spencer	(M.S. expected Fall 2021)
2019-present	Dillon Blount	(M.S., 2021; Ph.D. expected Summer 2025)
2019-present	Michael Vossen	(M.S., 2021; Ph.D. expected Spring 2025)
2017-2019	Jesse Schaffer	(M.S.; now pursuing an M.Ed. at George Mason Univ.)
2016-present	Kevin Prince	(M.S., 2018; Ph.D. expected Spring 2022)
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.; now Ph.D. candidate, Univ. of Vermont)
2014-2016	Alexandra Keclik (Kelly)	(M.S.; now with NWS, Kansas City, MO)
2014-2016	Bryan Burlingame	(M.S.; now with Northwestern Mutual, 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

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 nine senior undergraduate capstone projects and co-advised two high-school seniors on introductory research.

Professional Service

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

2021-present	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 102 nd Annual Meeting Health and Safety Task Force
2021	Panelist , 20 th Annual AMS Student Conference
2020-present	Chair , AMS Annual Meeting Oversight Committee
2020-present	Member , UCAR Membership Committee
2020-present	Member , Developmental Testbed Center Science Advisory Board
2020	Panelist , 8 th Annual AMS Conference for Early Career Professionals
2019-present	Editor , <i>Monthly Weather Review</i>
2019-present	Member , AMS Annual Meeting Oversight Committee
2018-2021	Vice Chair , AMS Committee on Weather Analysis and Forecasting
2018	Rapporteur , 9 th 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-present **Member**, AMS Committee on Weather Analysis and Forecasting
2012, 2016 **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

2017-2019 **Student Recruitment Ambassador**, UWM College of Letters and Science
2017-2019 **Member**, UWM Dept. of Mathematical Sciences Strategic Planning Committee
2017-2018 **Member**, UWM Dept. of Mathematical Sciences Undergraduate Committee
2017-2018 **Member**, UWM Dept. of Mathematical Sciences Dept. Mgr. Search Committee
2017-2018 **Member**, UWM Dept. of Mathematical Sciences Merit Committee
2016-2017 **Member**, UWM Dept. of Mathematical Sciences Assessment Committee
2014-2020 **Member**, UWM Dept. of Mathematical Sciences Graduate Committee
2013-2014 **Chair**, UWM Dept. of Mathematical Sciences Event Organizing Committee
2011-2016 **Member**, UWM Dept. of Mathematical Sciences Colloquium Committee
2011-2016 **Member**, UWM Dept. of 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
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)
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

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|-------------|---|
| 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 Testbed Programs

- 2021** **NOAA Hazardous Weather Testbed Spring Forecasting Experiment (9 times in total)**
 NOAA/NSSL and NOAA/NWS/SPC, Norman, OK
- 2020** **EarthCube Research Coordination Network "What About Model Data?" Workshop**
 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)*

2022

- 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., TBD.
- 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., TBD.
- 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., TBD.
- 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., TBD.
- 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., TBD.

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, TBD.

Prince, K. C., and **C. Evans**, 2021: Physical sensitivities in key processes associated with a tropical-cyclone/midlatitude-waveguide interaction. *Abstract, Mesoscale Processes Across Scales: Engaging with Communities in the Physical and Social Sciences*, New Orleans, LA, Amer. Meteor. Soc., 351.

Prince, K., and **C. Evans**, 2021: A climatology of indirect tropical cyclone interactions in the North Atlantic and western North Pacific basins. *Abstract, 34th Conf. on Hurricanes and Tropical Meteorology*, New Orleans, LA, Amer. Meteor. Soc., 14C.3.

Sarro, G. M., and **C. Evans**, 2021: An investigation of post-transition intensity, structural, and timing extremes for extratropically transitioning tropical cyclones. *Abstract, 34th Conf. on Hurricanes and Tropical Meteorology*, New Orleans, LA, Amer. Meteor. Soc., 145.

Spencer, M. R., and **C. Evans**, 2021: The influence of mesoscale sea-surface temperature uncertainty on short-range forecasts of cold-season southeast United States severe weather events. *Abstract, Mesoscale Processes Across Scales: Engaging with Communities in the Physical and Social Sciences*, New Orleans, LA, Amer. Meteor. Soc., 1.6.

Vossen, M. P., and **C. Evans**, 2021: An investigation of thermodynamic maintenance/intensification mechanisms of tropical cyclones over land. *Abstract, 4th Spec. Symp. on Tropical Meteorology and Tropical Cyclones*, New Orleans, LA, Amer. Meteor. Soc., 11.1.

Vossen, M. P., and **C. Evans**, 2021: A preliminary investigation of the thermodynamics supporting non-/weakly baroclinic tropical cyclone overland maintenance and intensification. *Abstract, 34th Conf. on Hurricanes and Tropical Meteorology*, New Orleans, LA, Amer. Meteor. Soc., 93.

2020

Blount, D. V., **C. Evans**, I. L. Jirak, and A. R. Dean, 2020: An evaluation of vertical thermodynamic profiles and derived stability parameters from parallel FV3- and spectral-model GFS forecasts. *Abstract, 30th Conf. on Weather Analysis and Forecasting/26th Conf. on Numerical Weather Prediction*, Boston, MA, Amer. Meteor. Soc., 146.

Blount, D. V., **C. Evans**, I. L. Jirak, and A. R. Dean, 2020: An evaluation of vertical thermodynamic profiles and derived stability parameters from parallel FV3- and spectral-model GFS forecasts. *Abstract, UFS Users Workshop*, Boulder, CO, Natl. Oceanic and Atmos. Administration.

Cordeira, J. M., A. Kaminski, N. D. Metz, M. Duncan, K. Bachli, M. Ericksen, I. Glade, C. Roberts, and **C. Evans**, 2020: A climatology of atmospheric rivers over the northeast US. *Abstract, 33rd Conf. on Climate Variability and Change*, Boston, MA, Amer. Meteor. Soc., 6A.3.

Kaminski, A. N., N. D. Metz, J. M. Cordeira, M. Duncan, K. Bachli, M. Ericksen, I. Glade, C. Roberts, and **C. Evans**, 2020: A climatology of atmospheric rivers over the northeast United States. *Abstract, 12th UWM Undergraduate Research Symposium*, Milwaukee, WI.

- Metz, N. D., J. M. Cordeira, and **C. Evans**, 2020: A multi-year, multi-institution collaborative research project developed during the Northeast Partnership for Atmospheric and Related Sciences (NEPARS) REU program. *Abstract, 29th Conf. on Education*, Boston, MA, Amer. Meteor. Soc., 1252.
- Prince, K., and **C. Evans**, 2020: A climatology of indirect tropical cyclone interactions. *Abstract, 30th Conf. on Weather Analysis and Forecasting/26th Conf. on Numerical Weather Prediction*, Boston, MA, Amer. Meteor. Soc., 12D.4.
- Sarro, G. M., and **C. Evans**, 2020: An investigation of post-transition intensity, structural, and timing extremes for extratropically transitioning tropical cyclones. *Abstract, 19th Student Conference*, Boston, MA, Amer. Meteor. Soc., S246.
- Sarro, G. M., and **C. Evans**, 2020: An investigation of post-transition extremes for extratropically transitioning tropical cyclones. *Abstract, 12th UWM Undergraduate Research Symposium*, Milwaukee, WI.
- Schaffer, J., P. J. Roebber, and **C. Evans**, 2020: Using evolutionary programming to generate improved tropical cyclone intensity forecasts. *Abstract, 19th Conf. on Artificial Intelligence and its Applications to the Environmental Sciences*, Boston, MA, Amer. Meteor. Soc., J43.5.
- Schaffer, J., P. J. Roebber, and **C. Evans**, 2020: Using evolutionary programming to generate improved tropical cyclone intensity forecasts. *Abstract, 74th Interdepartmental Hurricane Conference*, Lakeland, FL, Natl. Oceanic and Atmos. Administration, 9.7.

2019

- Cuhel, R., A. Scheib, C. Aguilar, and **C. Evans**, 2019: Match-mismatch: El Niño and a coincident derecho stimulate yellow perch recruitment in a previously decimated Lake Michigan fishery. *2019 Aquatic Sciences Meeting*, San Juan, PR, Assoc. for the Sciences of Limnology and Oceanography, AS005-3.
- Evans, C.**, 2019: Quantifying the influence of sea-surface temperature uncertainty on cool-season severe weather events. *VORTEX-SE 2019 Investigator Meeting*, Huntsville, AL, NOAA, T6.
- Kaminski, A. N., M. N. Duncan, N. D. Metz, J. M. Cordeira, and **C. Evans**, 2019: A climatology of atmospheric rivers in the northeastern United States. *Abstract, 11th UWM Undergraduate Research Symposium*, Milwaukee, WI, 92.
- Prince, K., and **C. Evans**, 2019: A climatology of indirect tropical cyclone interactions in the Atlantic basin. *Abstract, Special Symposium on Mesoscale Meteorological Extremes: Understanding, Prediction, and Projection*, Phoenix, AZ, Amer. Meteor. Soc., 1.23.
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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