Curriculum Vita Clark Evans, Ph.D.

Personal Information

Current Address

NOAA/OAR/Global Systems Laboratory 325 Broadway Boulder, CO 80305-3328

Contact Information

E-Mail: <u>clark.evans@noaa.gov</u> Phone: (720) 204-8735 Web: <u>https://gsl.noaa.gov/profiles/clark.evans</u> <u>https://clarkevanswx.github.io</u>

Last Updated: 24 May 2025

Education

2009	Ph.D., Florida State University, Meteorology
2006	M.S., Florida State University, Meteorology
2004	B.S. (Magna Cum Laude), Florida State Univ., Meteorology (Minors: Physics, Math)

Experience

2024-present	Research Physical Scientist and Branch Chief, NOAA/OAR/GSL, Boulder, CO
2021-2024	Professor, UW-Milwaukee, Milwaukee, WI
2021-2024	Chair, Atmospheric Science Program, UW-Milwaukee, Milwaukee, WI
2016-2021	Associate Professor, UW-Milwaukee, Milwaukee, WI
2014-2020	Chair, Atmospheric Science Program, UW-Milwaukee, Milwaukee, WI
2011-2016	Assistant Professor, UW-Milwaukee, Milwaukee, WI
2009-2011	Postdoctoral Fellow, UCAR/Advanced Study Program, Boulder, CO
2004	Postagereh Assistant ESU/Elerida Climate Conter, Tallahasson, Fl
2004	Research Assistant, FSU/Florida Climate Center, Tallahassee, FL
2003-2004	Undergraduate Research Assistant, Florida State Univ., Tallahassee, FL

Affiliate/Adjunct Scientific Positions

2024-present	Adjunct Professor, School of Freshwater Sciences, UW-Milwaukee, Milwaukee WI
2019-2024	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

2023	Faculty Distinguished Public Service Award, UW-Milwaukee
2021	Office of Research/UWM Foundation Research Award, UW-Milwaukee
2021	Faculty Distinguished University Service Award, UW-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 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

(<u>italicized</u> = advised student)

A citation listing is available on my <u>Google Scholar</u> page. H-index: 14, i10-index: 20.

- <u>DeYoung, C. P.</u>, and **C. Evans**, 2025: An assessment of the High-Resolution Rapid Refresh model's ability to resolve the Great Lakes marine atmospheric boundary layer and lake-breeze front. Wea. Forecasting, expected submission summer 2025.
- **Evans, C.**, and K. M. Wood, 2025: <u>Weather phenomena: extratropical transitions</u>. Encyclopedia of Atmospheric Sciences (3rd Ed.), W. A. Robinson, Ed., Elsevier, in press (September 2025).
- <u>Spencer, M. R.</u>, and **C. Evans**, 2025: The influences of sea-surface temperature uncertainty on cool-season high-shear, low-CAPE severe weather event predictability in the southeast United States. Wea. Forecasting, in revision, expected resubmission summer 2025.
- <u>Blount, D. V.</u>, **C. Evans**, I. L. Jirak, A. R. Dean, and S. Kravtsov, 2023: <u>An objective method for</u> <u>clustering observed vertical thermodynamic profiles by synoptic meteorological</u> <u>conditions</u>. Wea. Forecasting, **38**, 1143–1156.
- <u>Kaminski, A. N.</u>, and coauthors, 2023: <u>A 30-year climatology of northeastern United States</u> <u>atmospheric rivers</u>. J. Appl. Meteor. Climatol., **62**, 31–40.
- <u>Prince, K. C.</u>, and **C. Evans**, 2022: <u>Convectively generated negative potential vorticity</u> <u>enhancing the jet stream through an inverse energy cascade during the extratropical</u> <u>transition of Hurricane Irma</u>. J. Atmos. Sci., **79**, 2901–2918.
- <u>Sarro, G. M.</u>, and **C. Evans**, 2022: <u>An updated investigation of post-transformation intensity</u>, <u>structural</u>, and duration extremes for extratropically transitioning North Atlantic tropical <u>cyclones</u>. Mon. Wea. Rev., **150**, 2911–2933.
- Schultz, D. M., and coauthors, 2022: <u>How to be a more effective author</u>. Mon. Wea. Rev., **150**, 2819–2828.
- Prince, K. C., and C. Evans, 2020: <u>A climatology of indirect tropical cyclone interactions in the</u> North Atlantic and western North Pacific basins. Mon. Wea. Rev., **148**, 4035–4059.

<u>Schaffer, J. D.</u>, P. J. Roebber, and **C. Evans**, 2020: <u>Development and evaluation of an evolutionary</u> <u>programming-based tropical cyclone intensity model</u>. *Mon. Wea. Rev.*, **148**, 1951–1970.

- Schultz, D. M., and coauthors, 2020: <u>Data availability principles and practice</u>. Mon. Wea. Rev., **148**, 4701–4702.
- **Evans, C.**, S. J. Weiss, I. L. Jirak, A. R. Dean, and <u>D. S. Nevius</u>, 2018: <u>An evaluation of paired</u> regional/convection-allowing forecast vertical thermodynamic profiles in warm-season, thunderstorm-supporting environments. Wea. Forecasting, **33**, 1547–1566.
- <u>Nevius, D. S.</u>, and **C. Evans**, 2018: <u>The influence of vertical advection discretization in the WRF-</u> <u>ARW model on capping inversion representation in warm-season, thunderstorm-</u> <u>supporting environments</u>. Wea. Forecasting, **33**, 1639–1660.
- Prince, K. C., and C. Evans, 2018: <u>A climatology of extreme South American Andean cold surges</u>. J. Appl. Meteor. Climatol., **57**, 2297–2315.

- <u>Burlingame, B. M.</u>, **C. Evans**, and P. J. Roebber, 2017: <u>The influence of PBL parameterization on</u> <u>the practical predictability of convection initiation during the Mesoscale Predictability</u> <u>Experiment (MPEX)</u>. Wea. Forecasting, **32**, 1161–1183.
- **Evans, C.**, and coauthors: 2017: <u>The extratropical transition of tropical cyclones. Part I: cyclone</u> <u>evolution and direct impacts</u>. Mon. Wea. Rev., **145**, 4317–4344.
- <u>Grunzke, C. T.</u>, and **C. Evans**, 2017: <u>Predictability and dynamics of warm-core mesoscale vortex</u> formation with the 8 May 2009 "super derecho" event. Mon. Wea. Rev., **145**, 811–832.
- <u>Keclik, A. M.</u>, **C. Evans**, P. J. Roebber, and G. S. Romine, 2017: <u>The influence of assimilated</u> <u>upstream</u>, pre-convective dropsonde observations on ensemble forecasts of convection <u>initiation during the Mesoscale Predictability Experiment</u>. Mon. Wea. Rev., **145**, 4747–4770.
- Karloski, J. M., and C. Evans, 2016: <u>Seasonal influences upon and long-term trends in the length</u> 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: <u>An evaluation of</u> <u>Advanced Dvorak Technique-derived tropical cyclone intensity estimates during</u> <u>extratropical transition using synthetic satellite imagery</u>. Wea. Forecasting, **30**, 984–1009.
- Weisman, M. L., and coauthors, 2015: <u>The Mesoscale Predictability Experiment (MPEX)</u>. 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: <u>How do forecasters utilize output from a</u> <u>convection-permitting ensemble forecast system?</u> Case study of a high-impact <u>precipitation event</u>. Wea. Forecasting, **29**, 466–486.
- **Evans, C.**, M. L. Weisman, and L. F. Bosart, 2014: <u>Development of an intense, warm-core</u> <u>mesoscale vortex associated with the 8 May 2009 "super derecho" convective event</u>. J. Atmos. Sci., **71**, 1218–1240.
- Weisman, M. L., C. Evans, and L. F. Bosart, 2013: <u>The 8 May 2009 "super derecho": analysis of a</u> realtime explicit convective forecast. Wea. Forecasting, **28**, 863–892.
- Evans, C., and coauthors, 2012: <u>The PRE-Depression Investigation of Cloud-systems in the Tropics</u> (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: <u>Sensitivity in the overland</u> 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: <u>Analysis of the wind field evolution associated with the</u> <u>extratropical transition of Bonnie (1998)</u>. Mon. Wea. Rev., **136**, 2047–2065.
- Hart, R. E., J. L. Evans, and **C. Evans**, 2006: <u>Synoptic composites of the extratropical transition</u> <u>lifecycle of North Atlantic tropical cyclones: factors determining post-transition evolution</u>. *Mon. Wea. Rev.*, **134**, 553–578.

Funded Grants and Contracts

I am the sole PI on all funded grants and contracts except where listed.

2025-2026 Federal Aviation Administration

"FY25-26 GSL Model Development and Enhancement." \$675,000 (\$220,000 to the Physics Branch led by C. Evans); 5/1/25-4/30/26. Co-PI; lead PI: T. Ladwig (GSL).

2024 National Science Foundation

"AGS-FIRP Track 1: Learning by Doing: Observing the Lake Michigan Lake-Breeze Circulation." AGS-2347093; \$47,200 (\$22,270 to C. Evans); 3/1/24-8/31/24.

2023-2024 UWM Discovery and Innovation Grant "Downstream Impacts of Extratropical Transition of Tropical Cyclones in a Changing Climate." \$112,717; 7/1/23-12/31/24. Co-PI; lead PI: S. Kravtsov (UWM).

2023 Hamilton Family Foundation

"Observing the Lake Michigan Marine Atmosphere Boundary Layer." \$4,500; 1/1/23-12/31/23.

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 C. Evans); 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-Pl; lead Pl: P. Chang (UWM).

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 C. Evans); 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 (UWM).

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 C. Evans); 8/1/15-7/31/18. Co-PI; lead PI: 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 (UWM).

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 (UWM).

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 (* = newly developed course; ^ = developed own materials)

Tropical Meteorology (Atm Sci 470*)

Spring 2024, Spring 2022, Spring 2020, Spring 2018, Spring 2016, Spring 2014, Spring 2012

Numerical Weather Prediction (Atm Sci 730*)

Fall 2023, Fall 2021, Fall 2019, Fall 2017, Fall 2015, Fall 2012

- Introductory Atmospheric Science Seminar (Atm Sci 101*) Fall 2023, Fall 2022
- Synoptic Meteorology II (Atm Sci 361^) Spring 2023, Spring 2019, Spring 2015, Spring 2013

Synoptic Meteorology I (Atm Sci 360^) Fall 2022, Fall 2018, Fall 2014

Mesoscale Meteorology (Atm Sci 460^) Spring 2017

First-Year Seminar: Probability, Uncertainty, and Communication (Atm Sci 194*) Fall 2016

- Survey of Meteorology (Atm Sci 100^) Spring 2014, Fall 2013
- Current Weather Discussion (MET 3520^, Florida State University) Spring 2008

Advised Students

<u>Graduate Res</u> 2023-2025	<u>earchers</u> Kathryn Boyle M.S. 2025; co-advised by S. Kravtsov
2023-2025	Brian Foster M.S. 2025; co-advisor, S. Kravtsov as lead
2022-2024	Danica Brezovar M.S., 2024; co-advisor, J. Kahl as lead
2022-2024	Collin DeYoung M.S., 2024; now Instructor of Meteorology, Central Michigan Univ., Mt. Pleasant, MI
2021-2024	Ariel Tickner-Ernst M.S., 2024; now Mitigation & Recovery Coordinator, Cumberland County, ME
2020-2021	Michelle Spencer (Storm) M.S., 2021; now pursuing Ph.D. (ABD) at the Univ. of Oklahoma, Norman, OK; incoming UCAR Advanced Study Program Postdoctoral Fellow, Boulder, CO
2019-2025	Dillon Blount M.S., 2021; Ph.D. 2025; incoming Assistant Professor at Ohio University, Athens, OH
2019-2024	Michael Vossen M.S., 2021; Ph.D. (ABD) at time of departure; now with Antea, St. Paul, MN
2017-2019	Jesse Schaffer M.S., 2019; completed M.Ed. in 2022 at George Mason Univ.
2016-2022	Kevin Prince M.S., 2018, Ph.D., 2022; now NRC Post-Doctoral Fellow, NRL, Monterey, CA
2016-2018	Aidan Kuroski M.S., 2018; now Meteorologist with NWS, Milwaukee/Sullivan, WI
2016-2018	David Nevius M.S., 2019; now with Delta Airlines, Atlanta, GA
2015-2017	Caitlin Crossett M.S., 2017; Ph.D., 2022 at Univ. of Vermont; now Assistant Professor at UNC-Asheville

2014-2016 Alexandra Keclik (Kelly)

M.S., 2016; now NWS Central Region IDSS/WCM Program Mgr., Kansas City, MO

2014-2016 Bryan Burlingame

M.S., 2016; now Staff Data Engineer with LeafLink (fully remote)

2014-2016 Caleb Grunzke

M.S., 2016; now Meteorologist with NWS, Twin Cities/Chanhassen, MN

2013-2015 Juliana Karloski

M.S., 2015; now Educational Instructor with Space Center Houston, Houston, TX

2012-2014 Alex Manion

M.S., 2014; now Meteorologist with NWS, Detroit/Pontiac, MI

2011-2013 Brock Burghardt

M.S., 2013; Ph.D., 2017 at Texas Tech Univ.; now Certified Consulting Meteorologist in private practice

Undergraduate Researchers

2023-present	Kade Barkas	
2022-2024	Drew Hickok	
2018-2021	Anna Kaminski (Prince)	(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)

NOAA Student Researchers

2025 Darri Stuber

(William M. Lapenta NOAA Student Intern Program)

Graduate Dissertation/Thesis Committee Member

Dissertations: Andrew Westgate (2024), Ilijana Mastilovic (2023), Tim Thielke (2022), Austin Harris (2022), Brian Griffin (2016), Noriyuki Sugiyama (2015), Dawn Kopacz (2015)

Theses: Alex Moxon (2025), Skylar Gertonson (2025), Victoria Lang (2022), James Ryan (2020), Teresa Turner (2020), Andrew Westgate (2020), Christian Grimm (2018), Andrea Honor (2018), Cory Rothstein (2018), Tim Thielke (2018), Lily Chapman (2017), Russell Danielson (2017), Austin Harris (2016), Kaitlyn Heinlein (2016), Timm Uhlmann (2016), Justin Weber (2015), Josh Verbeten (2014), Joseph Pehoski (2013), Jeremy Duggan (2012), John Peters (2012), Marc Pilon (2012), Zach Uttech (2012)

Undergraduate Capstone Supervision

Drew Hickok (2024), Kyle Zur (2022), Anna Kaminski (2021), Giorgio Sarro (2020), Ashley Schils (2020), Devon Bertnick (2019), Austin Scheib (2018), Mackenzie Nuthals (2017), Alec Muniz (2016), Lily Chapman (2015), Kyle Koval (2013), Karleisa Rogacheski (2013), Charles Smith (2013)

Professional Service

National/Inter	national Service (Excluding Conference Session Chairing/Organizing)
2025-present	Member, AMS Planning Commission
2025-present	Member, AMS Awards Oversight Committee (ex officio)
2025-present	Member, Committee on AMS Positions and Statements
2025-present	Member, AMS Annual Meeting Oversight Committee (ex officio)
2024	Panelist, 23 rd Annual AMS Student Conference
2023-present	Commissioner, AMS Scientific and Technological Activities Commission
2023	Chair, Developmental Testbed Center Science Advisory Board
2023	Panelist, AMS Town Hall on Open Science Expectations for Model-Based Research
2022-2023	Co-Chair, AMS Future of Meetings Task Force
2022-2023	Member, AMS Future of Meetings Task Force
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 102 nd Annual Meeting Health and Safety Task Force
2021	Panelist, 20th Annual AMS Student Conference
2020-2022	Chair, AMS Annual Meeting Oversight Committee
2020-2023	Member, UCAR Membership Committee
2020-present	Member, Developmental Testbed Center Science Advisory Board
2020	Panelist, 8 th Annual AMS Conterence 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, 9 ^m WMO International Workshop on Iropical Cyclones
2018	Organizer, AMS Special Symposium on Impact-Based Decision Support Services
2017	Member, AMS 28 th Cont. on WAF/24 th Cont. on NWP Program Committee
2016-2023	Member, AMS Committee on Weather Analysis and Forecasting
2016	Panalist 14th Annual AMS Student Conference
2015	Member 17th Cyclone Workshon Science Committee
2013	Member, 17 Cyclone Workshop Science Comminde
2013-2015	Member, 6 Wild International Workshop on hopical Cyclones Working Cloup
2010-2013	Panelist 1st Annual AMS Conference for Early Career Professionals
2012-2018	Associate Editor Monthly Weather Review
2012	Member, AMS Max Faton Award Selection Committee
2012	Rapporteur , 4 th WMO International Workshop on Extratropical Transition
2010	Member , 7 th WMO International Workshop on Tropical Cyclones Working Group
2010	Member , AMS 25 th Conf. on Severe Local Storms Proaram Committee
2010	Member , AMS 29 th Conf. on Hurricanes/Tropical Meteor. Proaram Committee

University/Institution Service

2024-present	Member, NOAA/OAR/GSL Science and Technology Council
2024-2025	Member, NOAA/OAR/GSL Modeling Summit Leadership Team
2023	Lecturer, UWM Admitted Student Days Mock Lecture Series
2022-2023	Vice Chair, UWM Freshwater Sciences Academic Program & Curr. Committee
2022-2023	Member, UWM Freshwater Sciences Dean Search & Screen Committee
2021-2024	Member, UWM Freshwater Sciences Academic Program & Curr. Committee
2021-2024	Faculty Advisor, The Climate Consensus at UWM
2021-2022	Member, UWM Freshwater Sciences Climate/Water Asst. Prof. Search Committee
2020-2024	Member, UWM Research Computing Steering Group
2020-2021	Member, 2030 Implementation Team Undergraduate Experience Working Group

- 2018-2020 Member, UWM Information Technology Policy Committee
- 2017-2019 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
- 2014-2023 Coordinator, UWM StormReady University Initiative
- 2014-2020 Member, UWM Mathematical Sciences Graduate Committee
- 2013-2014 Chair, UWM Mathematical Sciences Event Organizing Committee
- 2012-2024 UCAR Member Representative, UW-Milwaukee
- 2011-2024 Local Manager, WxChallenge Forecasting Competition
- 2011-2024 Faculty Co-Advisor, UWM Atmospheric Science Club
- 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

Service to Other Universities

2024	Reviewer, Univ. of North Carolina-Charlotte – Promotion to Professor
2024	Reviewer, Northern Illinois University – Promotion to Professor
2023-2024	Chair and Member, Western Kentucky Univ. Meteorology B.S. Review Committee
2023	Reviewer, University of Kansas – Tenure and Promotion to Associate Professor
2022	Reviewer, Hobart & Wm. Smith Colleges – Promotion to Professor
2019	Reviewer, Northern Illinois University – Tenure and Promotion to Associate Professor
2018	Reviewer, Texas Tech University – Tenure and Promotion to Associate Professor
2016	Reviewer, Hobart & Wm. Smith Colleges – Tenure & Promotion to Assoc. Professor

Community Service

	2025-present	Member	High Plains	Library D	District Friends a	& Foundation	Board of Direc	tors
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- 2024 Member, Village of Grafton, WI Finance and Personnel Committee
- **2023-2024 Trustee**, Village of Grafton, WI (elected position)
- 2023-2024 Member, Village of Grafton, WI Board of Public Works
- 2022-2023 Vice President, U.S.S. Liberty Memorial Public Library Joint Library Board
- 2018-2020 Participant, ESWN Science-a-Thon #dayofscience
- 2016-2023 Trustee, U.S.S. Liberty Memorial Public Library
- 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 Oceanic and Atmospheric Administration (USA)

National Science Foundation (USA) Nature Communications Quarterly Journal of the Royal Meteorological Society U.S. Department of Energy Atmospheric System Research Program Weather and Forecasting

Invited Professional Colloquia and Seminars

2024	Univ. of Arizona, Dept. of Hydrology and Atmospheric Sciences "Real-Time High-Resolution Hurricane Prediction with the Model for Prediction Across Scales"
2024	NSF National Center for Atmospheric Research, Research Applications Laboratory "Real-Time High-Resolution Hurricane Prediction with the Model for Prediction Across Scales"
2024	North Carolina State Univ., Dept. of Marine, Earth, and Atmospheric Sciences "High-Impact Tropical and Midlatitude Weather Phenomena Across Scales" and "Moving MEAS Forward, Together: A Vision for Leadership and for the Dept. of Marine, Earth, and Atmospheric Sciences"
2023	NOAA Global Systems Laboratory "Diagnosing Atmospheric Boundary Layer Analysis and Forecast Biases in Short- Range Numerical Weather Prediction Forecasts"
2023	National Science Foundation "Perspectives on the CLD and PDM Programs and Diversity, Equity, and Inclusion"
2022	6 th 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"

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Invited Workshops and Meteorological Testbeds

2025	NOAA Flash Flood and Intense Rainfall Experiment NOAA/NWS/NCEP/Weather Prediction Center, College Park, MD
12x, last: 2025	NOAA Hazardous Weather Testbed Spring Forecasting Experiment NOAA/OAR/NSSL and NOAA/NWS/NCEP/SPC, Norman, OK
2025	NOAA Winter Weather Experiment NOAA/NWS/NCEP/Weather Prediction Center, College Park, MD
2024	Innovations in Open Science Planning Workshop: Community Expectations for a Geoscience Data Commons NSF National Center for Atmospheric Research, Boulder, CO
2023	NCAR-NOAA Community Modeling Infrastructure Meeting UCAR/NSF NCAR, Boulder, CO

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

Public Interviews and Presentations

2024	DTC Transitions Newsletter (Spring 2024; Director's Corner article on Al modeling)
2024	Ozaukee News Graphic (<u>11 April 2024</u> ; weather monitoring station in Grafton, WI)
2023	USA Today (<u>20 October 2023</u> ; hurricane model interpretation)
2023	Learning in Retirement Waukesha County (13 September 2023; Wisconsin weather)
2023	Gratton, WI Public Library (9 September 2023; observing Wisconsin weather)
2023	Brookfield, WI Public Library (6 September 2023; observing Wisconsin weather)
2023	Wisconsin Examiner (<u>5 September 2023</u> ; August 2023 heat + climate adaptation)
2023	WUWM Public Radio (<u>13 June 2023</u> ; Wisconsin drought conditions)
2023	WDJT-TV/CBS 58 (<u>16 March 2023</u> ; El Nino and Wisconsin weather)
2023	WUWM Public Radio (<u>3 February 2023</u> ; warm January weather + climate change)
2023	Milwaukee Journal Sentinel (<u>19 January 2023</u> ; warm January weather)
2023	Milwaukee Journal Sentinel (<u>5 January 2023</u> ; early-winter temperatures and snow)
2022	UWM Report (<u>10 November 2022</u> ; hurricane data resource)
2022	Learning in Refirement Waukesha County (1/ October 2022; hurricane primer)
2022	WISN-TV (7 September 2022; "Roottop Weather" interview)
2022	Wall Street Journal (<u>16 August 2022</u> ; early-starting Atlantic hurricane seasons)
2022	UWM Osher Lifelong Learning Institute (21 February 2022; hurricane primer)
2021	WUWM Public Radio (<u>5 November 2021</u> ; summer weather and climate change)
2021	350.org Milwaukee Chapter (<u>14 September 2021</u> ; The Climate Consensus)
2021	WUWM Public Radio (<u>4 August 2021</u> ; derechos and wildfires)
2021	UWM Research Magazine (<u>16 March 2021</u> ; hurricane research)
2021	UWM Today (<u>18 February 2021</u> ; hurricane research)
2021	UWM Alumni Association Master Chat (<u>18 February 2021</u> ; hurricane primer)
2020	WDJT-TV/CBS 58 (<u>13 December 2020</u> ; La Niña and Wisconsin winter weather)
2020	WDJT-TV/CBS 58 (<u>14 June 2020</u> ; extreme rainfall in Wisconsin)
2020	UWM Alumni Magazine (<u>8 June 2020</u> ; Spring 2020 semester reflection)
2020	Song-a-Day #4045 (<u>28 January 2020</u> ; songification of Evans et al. (2014) abstract)
2019	AMS On The Air Podcast (<u>18 June 2019</u> ; extratropical transition of tropical cyclones)
2019	Developmental Testbed Center Newsletter (<u>Spring 2019</u> ; vision for NWP research)
2019	UWM Report (<u>2 May 2019</u> ; weather balloon launch)
2019	WISN-TV (1 May 2019; weather balloon launch)
2019	Ozaukee News Graphic (14 March 2019; letter to the editor on weather vs. climate)
2019	Ozaukee Press (6 March 2019; letter to the editor on weather vs. climate)
2019	DTC Transitions Newsletter (Spring 2019; Director's Corner article on the FV3 model)
2018	UWM Letters & Science InFocus (October 2018; Science-A-Thon participation)
2018	WDJT-TV/CBS 58 (14 September 2018; Hurricane Florence interview)
2018	Weather Underground (<u>6 June 2018</u> ; Tropical Storm Alberto interview)

2018	UWM Report (<u>19 April 2018</u> ; Atmospheric Science program changes)
2018	UWM Today (<u>19 April 2018</u> ; Innovative Weather and Atmospheric Science program)
2018	UWM Report (<u>18 April 2018</u> ; late-ending winter weather in Wisconsin)
2018	Weather Underground (<u>19 February 2018</u> ; Tropical Cyclone Kelvin interview)
2017	WISN-TV (30 August 2017; Hurricane Harvey interview)
2017	Milwaukee Area Science Advocates (<u>13 July 2017</u> ; "Actual Living Scientist" sketch)
2017	UWM Atmospheric Science Promo (February 2017; undergraduate program)
2016	News@Unidata (23 May 2016; deployment of AWIPS II at UWM)
2016	UWM PantherVision (4 March 2016; El Niño impacts on Wisconsin weather)
2016	The Daily Beast (<u>15 January 2016</u> ; Hurricane Alex interview)
2015	WITI-TV/FOX 6 (25 February 2015; Milwaukee Air & Water Show weather)
2015	WITI-TV/FOX 6 (24 February 2015; Lake Michigan ice cover)
2015	WDJT-TV/CBS 58 (23 February 2015; Lake Michigan ice cover)
2014	UWM Report (<u>20 November 2014</u> ; UWM StormReady University designation)
2012	UCAR News (<u>2 July 2012</u> ; eastern United States derecho)
2011	UCAR News (<u>6 May 2011</u> ; Tropical Storm Erin research)
2010	LiveScience (<u>12 September 2010</u> ; central United States derecho)
2010	UCAR News (<u>18 August 2010</u> ; central United States derecho)

Presentations

(advised student)

<u>2025</u>

- Adams-Selin, R. D., H. Vagasky, <u>D. V. Blount</u>, and **C. Evans**, 2025: Low-frequency gravity waves within mesoscale convective system stratiform regions. Abstract, 4th Symp. on Mesoscale Processes, New Orleans, LA, Amer. Meteor. Soc., 9.5.
- Adams-Selin, R. D., H. Vagasky, <u>D. V. Blount</u>, and **C. Evans**, 2025: Low-frequency gravity waves within mesoscale convective system stratiform regions. *Abstract, 2025 ARM/ASR Joint User Facility and PI Meeting*, Rockville, MD, US Dept. of Energy, 3.45.
- Barkas, K. R., and C. Evans, 2025: Toward quantifying the overlap between severe weather and hurricane seasons in the southeast United States. Abstract, 24th Student Conf., New Orleans, LA, Amer. Meteor. Soc., S31.
- <u>Blount, D. V.</u>, **C. Evans**, and R. D. Adams-Selin, 2025: A preliminary analysis of the contributions of line-end vortices, gravity waves, and environmental flow to mesoscale convection system rear inflow and stratiform region structure in numerical simulations. *Abstract*, 4th Symp. on Mesoscale Processes, New Orleans, LA, Amer. Meteor. Soc., 9.4.
- <u>Blount, D. V.</u>, **C. Evans**, R. D. Adams-Selin, and H. Vagasky, 2025: An analysis of the contributions of line-end vortices and gravity waves to mesoscale convective system rear inflow and stratiform region structure in numerical simulations. *Abstract, 2025 ARM/ASR Joint User Facility and PI Meeting*, Rockville, MD, US Dept. of Energy, 3.47.
- Boyle, K. G., C. Evans, and S. Kravtsov, 2025: Downstream effects of Northern Hemisphere extratropical transition in a future climate. Abstract, 38th Conf. on Climate Variability and Change, New Orleans, LA, Amer. Meteor. Soc., 897.
- Clark, A., and coauthors, 2025: MPAS evaluations for severe weather forecasting during the 2025 NOAA/Hazardous Weather Testbed Spring Forecasting Experiment. Abstract, Joint MPAS/WRF Users Workshop 2025, Boulder, CO, Natl. Cen. for Atmos. Res., 4.5.
- **Evans, C.**, 2025: Performance of a real-time, high-resolution Model for Prediction Across Scales (MPAS) forecast system during HFIP 2024. Abstract, 2025 Tropical Cyclone Operations and Research Forum, Lakeland, FL, Natl. Oceanic and Atmos. Administration, 3.4.
- Evans, C., C. R. Alexander, L. R. Bernardet, T. T. Ladwig, M. Hu, D. C. Dowell, and T. I. Alcott, 2025: NOAA/GSL model development and forecasting activities using MPAS. Abstract, Joint MPAS/WRF Users Workshop 2025, Boulder, CO, Natl. Cen. for Atmos. Res., 3.1.
- **Evans, C.**, L. R. Bernardet, M. D. Toy, J. B. Olson, A. A. Jensen, W. C. Skamarock, and M. J. Duda, 2025: Integration of additional community physics parameterizations into the MPAS-

Atmosphere model. Abstract, Joint MPAS/WRF Users Workshop 2025, Boulder, CO, Natl. Cen. for Atmos. Res., P27.

- **Evans, C.**, L. Bengtsson, A. Jensen, S. Trahan, N. Wang, M. Barlage, G. Grell, and E. Grell, 2025: Modeling system advancements for atmospheric river applications. *NOAA Atmospheric River Workshop*, virtual, Natl. Oceanic and Atmos. Administration, 5.1.
- Hamilton, J., M. Smith, R. Pierce, N. Babij, I. McGinnis, G. Padmanabhan, M. Wandishin, C. Evans, D. Turner, and S. Weygandt, 2025: Use of MATS (Model Assessment Tool Suite) for rapidprototyping model refinement. NOAA Atmospheric River Workshop, virtual, Natl. Oceanic and Atmos. Administration, 6.2.
- Jensen, A. A., J. B. Olson, and **C. Evans**, 2025: Development updates to the Thompson-Eidhammer Microphysics Parameterization for Operations (TEMPO). *Abstract, Joint MPAS/WRF Users Workshop 2025*, Boulder, CO, Natl. Cen. for Atmos. Res., 6B.1.
- Olson, J. B., W. M. Angevine, X. Sun, D. Turner, and **C. Evans**, 2025: Updates to the MYNN-EDMF PBL scheme to improve operational forecasting applications. *Abstract, Joint MPAS/WRF Users Workshop* 2025, Boulder, CO, Natl. Cen. for Atmos. Res., 6A.1.

<u>2024</u>

- <u>Blount, D. V.</u>, **C. Evans**, R. D. Adams-Selin, and H. Vagasky, 2024: A preliminary analysis of line-end vortex contributions to rear-to-front flow in observed and modeled mesoscale convective systems. Abstract, 24th Symp. on Meteor. Obs. and Instrumentation, Baltimore, MD, Amer. Meteor. Soc.
- <u>Blount, D. V.</u>, **C. Evans**, and R. D. Adams-Selin, 2024: A preliminary analysis of the contributions of line-end vortices, gravity waves, and environmental flow to mesoscale convection system rear inflow and stratiform region structure in numerical simulations. *Abstract*, 31st Conf. on Severe Local Storms, Virginia Beach, VA, Amer. Meteor. Soc.
- <u>DeYoung, C. P.</u>, and **C. Evans**, 2024: A preliminary assessment of the HRRR's ability to predict the Great Lakes lake-breeze front and marine atmospheric boundary layer. Abstract, 22nd Symp. on the Coastal Environment, Baltimore, MD, Amer. Meteor. Soc., 1.3.
- **Evans, C.**, 2024: Tropical cyclone forecasts at GSL using MPAS. Abstract, 2024 HFIP Annual Meeting, Miami, FL, Natl. Oceanic and Atmos. Administration, 3C.4.
- <u>Hickok, A. O.</u>, <u>M. P. Vossen</u>, and **C. Evans**, 2024: Towards an updated climatology of overland tropical cyclone maintenance and intensification in non-/weakly baroclinic environments. Abstract, 6th Spec. Symp. on Tropical Meteor. and Trop. Cyclones, Baltimore, MD, Amer. Meteor. Soc.
- <u>Hickok, A. O.</u>, <u>M. P. Vossen</u>, and **C. Evans**, 2024: Towards an updated climatology of overland tropical cyclone maintenance and intensification in non-/weakly baroclinic environments. *Abstract*, 16th UWM Undergraduate Research Symposium, Milwaukee, WI.
- <u>Hickok, A. O.</u>, <u>M. P. Vossen</u>, and **C. Evans**, 2024: Towards an updated climatology of overland tropical cyclone maintenance and intensification in non-/weakly baroclinic environments. *Abstract*, 36th Conf. on Hurricanes and Tropical Meteorology, Long Beach, CA, Amer. Meteor. Soc.
- <u>Vossen, M. P.</u>, and **C. Evans**, 2024: Thermodynamics of overland tropical cyclone intensity change in weakly/non-baroclinic environments. *Abstract, 36th Conf. on Hurricanes and Tropical Meteorology*, Long Beach, CA, Amer. Meteor. Soc.

<u>2023</u>

- Adams-Selin, R. D., **C. Evans**, H. C. Vagasky, and <u>D. V. Blount</u>, 2023: Identification of low-frequency gravity waves within mesoscale convective system stratiform regions. Abstract, 2023 Joint ARM User Facility and ASR PI Meeting, Rockville, MD, US Dept. of Energy, 4.48.
- <u>Blount, D. V.</u>, **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., 283.

- <u>Blount, D. V.</u>, **C. Evans**, R. D. Adams-Selin, and H. Vagasky, 2023: A preliminary analysis of lowfrequency gravity wave, line-end vortex, and environmental flow contributions to rear-tofront flow in observed MCSs. Abstract, 20th Conf. on Mesoscale Processes, Madison, WI, Amer. Meteor. Soc., 7.2.
- Brown, G. R. H., and coauthors, 2023: 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., 74.
- <u>DeYoung, C. P.</u>, and **C. Evans**, 2023: A preliminary assessment of the HRRR's ability to predict the Great Lakes lake-breeze front and marine atmospheric boundary layer. Abstract, 2023 Great Lakes Operational Meteorology Workshop, Madison, WI.
- <u>DeYoung, C. P.</u>, and **C. Evans**, 2023: A preliminary assessment of the High-Resolution Rapid Refresh model's ability to predict the Great Lakes lake-breeze front and marine atmospheric boundary layer. Abstract, 32nd Conf. on Weather Analysis and Forecasting, Madison, WI, Amer. Meteor. Soc., 86.
- <u>Hickok, A. O.</u>, <u>M. P. Vossen</u>, 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., S253.
- <u>Hickok, A. O.</u>, <u>M. P. Vossen</u>, and **C. Evans**, 2023: Towards an updated climatology of overland tropical cyclone maintenance and intensification in non-/weakly baroclinic environments. Abstract, 15th UWM Undergraduate Research Symposium, Milwaukee, WI.
- <u>Hickok, A. O.</u>, <u>M. P. Vossen</u>, and **C. Evans**, 2023: Towards an updated climatology of overland tropical cyclone maintenance and intensification in non-/weakly baroclinic environments. *Abstract, 32nd Conf. on Weather Analysis and Forecasting*, Madison, WI, Amer. Meteor. Soc., 106.
- <u>Prince, K. C.</u>, 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.
- Vagasky, H., R. D. Adams-Selin, **C. Evans**, and <u>D. V. Blount</u>, 2023: Observations of convectively generated gravity waves within the stratiform region of mesoscale convective systems. *Abstract*, 20th Conf. on Mesoscale Processes, Madison, WI, Amer. Meteor. Soc., 32.
- <u>Vossen, M. P.</u>, 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.

<u>2022</u>

- 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 ARM/ASR PI Meeting*, Rockville, MD, 4.58.
- <u>Blount, D. V.</u>, **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.

- <u>Prince, K. C.</u>, 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.
- <u>Prince, K. C.</u>, **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.
- <u>Prince, K.</u>, 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.
- <u>Spencer, M. R.</u>, 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.
- <u>Spencer, M. R.</u>, 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.
- <u>Vossen, M. P.</u>, 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.
- <u>Vossen, M. P.</u>, 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.

<u>2021</u>

- <u>Blount, D. V.</u>, **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.
- <u>Kaminski, A. N.</u>, 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.
- <u>Kaminski, A. N.</u>, 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.
- <u>Prince, K. C.</u>, and **C. Evans**, 2021: Physical sensitivities in key processes associated with a tropicalcyclone/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.
- <u>Sarro, G. M.</u>, 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.
- <u>Spencer, M. R.</u>, 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.

- <u>Vossen, M. P.</u>, 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.
- <u>Vossen, M. P.</u>, 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.

<u>2020</u>

- <u>Blount, D. V.</u>, **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.
- <u>Blount, D. V.</u>, **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., <u>A. Kaminski</u>, 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.
- <u>Kaminski, A. N.</u>, 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.
- <u>Prince, K.</u>, 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.
- <u>Sarro, G. M.</u>, 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.
- <u>Sarro, G. M.</u>, and **C. Evans**, 2020: An investigation of post-transition extremes for extratropically transitioning tropical cyclones. *Abstract, 12th UWM Undergraduate Research Symposium, Milwaukee, WI.*
- <u>Schaffer, J.</u>, 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.
- <u>Schaffer, J.</u>, 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.

<u>2019</u>

- Cuhel, R., <u>A. Scheib</u>, 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.

- <u>Kaminski, A. N.</u>, 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.
- <u>Prince, K.</u>, 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.
- <u>Prince, K.</u>, and **C. Evans**, 2019: A climatological analysis of indirect tropical cyclone interactions in the North Atlantic and Northwest Pacific basins. Abstract, 19th Cyclone Workshop, Seeon, Germany, 4.4.
- <u>Sarro, G. M.</u>, and **C. Evans**, 2019: An investigation of intensity, structural, and timing extremes for tropical cyclones that become extratropical. *Abstract*, 11th UWM Undergraduate Research Symposium, Milwaukee, WI, 163.
- <u>Schaffer, J.</u>, P. J. Roebber, and **C. Evans**, 2019: Using evolutionary programming to generate improved tropical cyclone intensity forecasts. Abstract, 18th Conf. on Artificial Intelligence and its Applications to the Environmental Sciences, Phoenix, AZ, Amer. Meteor. Soc., 4B.1.
- <u>Schaffer, J.</u>, P. J. Roebber, and **C. Evans**, 2019: Using evolutionary programming to generate improved tropical cyclone intensity forecasts. *Abstract, 73rd Interdepartmental Hurricane Conference*, Miami, FL, Natl. Oceanic and Atmos. Administration, 9.2.

<u>2018</u>

- **Evans, C.**, and R. McTaggart-Cowan, 2018: Extratropical transition. 9th Intl. Workshop on Tropical Cyclones, Honolulu, HI, World Meteorological Organization, 4.3.
- **Evans, C.**, S. J. Weiss, and I. L. Jirak, 2018: A preliminary evaluation of paired regional/convectionallowing model-forecast vertical profiles in warm-season, thunderstorm-supporting environments. Abstract, 29th Conf. on Weather Analysis and Forecasting/25th Conf. on Numerical Weather Prediction, Denver, CO, Amer. Meteor. Soc., 10A.5.
- **Evans, C.**, S. J. Weiss, I. L. Jirak, A. R. Dean, and <u>D. S. Nevius</u>, 2018: An evaluation of paired regional/convection-allowing model-forecast vertical profiles in warm-season, thunderstorm-supporting environments. *Abstract*, 29th Conf. on Severe Local Storms, Stowe, VT, Amer. Meteor. Soc., 5.5.
- <u>Kuroski, A.</u>, and **C. Evans**, 2018: A preliminary investigation of the conditional practical predictability of the 31 May 2013 Oklahoma heavy-rain-producing mesoscale convective system. Abstract, 3rd Symposium on Multi-Scale Predictability: Data-model Integration and Uncertainty Quantification for Climate and Earth System Monitoring and Prediction, Austin, TX, Amer. Meteor. Soc., 367.
- <u>Kuroski, A.</u>, and **C. Evans**, 2018: An investigation of the conditional practical predictability of the 31 May 2013 heavy-rain-producing mesoscale convective system. Abstract, 29th Conf. on Weather Analysis and Forecasting/25th Conf. on Numerical Weather Prediction, Denver, CO, Amer. Meteor. Soc., P344592.
- <u>Kuroski, A.</u>, and **C. Evans**, 2018: An investigation of the conditional practical predictability of the 31 May 2013 heavy-rain-producing mesoscale convective system. Abstract, 29th Conf. on Severe Local Storms, Stowe, VT, Amer. Meteor. Soc., 6B.2.
- <u>Nevius, D. S.</u>, 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. Abstract, 29th Conf. on Weather Analysis and Forecasting/25th Conf. on Numerical Weather Prediction, Denver, CO, Amer. Meteor. Soc., 12B.4.
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- <u>Schaffer, J.</u>, P. J. Roebber, and **C. Evans**, 2018: Using evolutionary programming to generate improved tropical cyclone intensity forecasts. *Ext. Abstract, 33rd Conf. on Hurricanes and Tropical Meteorology*, Ponte Vedra Beach, FL, Amer. Meteor. Soc., 7B.5.
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<u> 2009</u>

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- **Evans, C.**, 2008: Analysis of the wind field expansion associated with the extratropical transition of Bonnie (1998). Extended Abstract, 28th Conf. on Hurricanes and Tropical Meteorology, Orlando, FL, Amer. Meteor. Soc., 9C.1.
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<u>2007</u>

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<u>2006</u>

- **Evans, C.**, 2006: Dynamics of the wind field expansion with extratropically transitioning tropical cyclones. Extended Abstract, 27th Conf. on Hurricanes and Tropical Meteorology, Monterey, CA, Amer. Meteor. Soc., 4A.6.
- **Evans, C.**, and R. E. Hart, 2006: Medium-range to seasonal precursor conditions to higher latitude landfalls of extratropically transitioning hurricanes. *Extended Abstract, 27th Conf. on Hurricanes and Tropical Meteorology,* Monterey, CA, Amer. Meteor. Soc., P6.2.
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<u>2005</u>

- **Evans, C.**, 2005: Diagnosis of banded precipitation features associated with tropical cyclones during the extratropical transition process. Extended Abstract, 21st Conf. on Weather Analysis and Forecasting/17th Conf. on Numerical Weather Prediction, Washington, D.C., Amer. Meteor. Soc., P1.4.
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- Hart, R. E., and **C. Evans**, 2005: Short-term and long-term indicators of enhanced Atlantic tropical cyclone threat at higher latitudes. *Proceedings*, 3rd Intl. Workshop on Extratropical *Transition*, Perth, Australia.
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- 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