

Curriculum Vita

Clark Evans (he/him/his)

Personal Information

Current Address

Univ. of Wisconsin-Milwaukee
School of Freshwater Sciences
600 E. Greenfield Ave.
Milwaukee, WI 53204

Contact Information

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Web: <https://people.uwm.edu/evans36/>
<https://github.com/evans36/>
Twitter: [@ClarkEvansWx](https://twitter.com/ClarkEvansWx)

Last Updated: 16 August 2023

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)**

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

2023 **Faculty Distinguished Public Service Award**, Univ. of Wisconsin-Milwaukee
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*, **38**, 1143–1156.

Kaminski, A. N., and coauthors, 2023: [A 30-year climatology of northeastern United States atmospheric rivers](#). *J. Appl. Meteor. Climatol.*, **62**, 31–40.

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

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.*, **150**, 2911–2933.

Schultz, D. M., and coauthors, 2022: [How to be a more effective author](#). *Mon. Wea. Rev.*, **150**, 2819–2828.

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.

Schultz, D. M., and coauthors, 2020: [Data availability principles and practice](#). *Mon. Wea. Rev.*, **148**, 4701–4702.

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.
- Kecklik, 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 \(MPLEX\)](#). *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

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

- 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.
- 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.
- 2019-2024 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 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.
- 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 *(* = newly developed course; ^ = material development only)*

- Numerical Weather Prediction** (Atm Sci 730*)
 Fall 2023, Fall 2021, Fall 2019, Fall 2017, Fall 2015, Fall 2012
- Introductory Atm Sci 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
- Tropical Meteorology** (Atm Sci 470*)
 Spring 2022, Spring 2020, Spring 2018, Spring 2016, Spring 2014, Spring 2012
- 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

Graduate Researchers

2023-present	Kathryn Boyle	(M.S. expected 2025; co-advised by S. Kravtsov)
2023-present	Brian Foster	(M.S. expected 2025; co-advisor, S. Kravtsov as lead)
2022-present	Collin DeYoung	(M.S. expected 2024)
2022-present	Danica Brezovar	(M.S. expected 2024; co-advisor, J. Kahl as lead)
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/Chanhasen, 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.)

Undergraduate Researchers

2023-present	Kade Barkas	
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)

Graduate Dissertation/Thesis Committee Member

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

Theses: 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

Kyle Zur (2022), Anna Kaminski (2021), Giorgio Sarro (2020), Ashley Schils (2020), Devon Bernick (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/International Service (Excludes Conference Session Chairing/Organizing)

- 2023-present** **Commissioner**, AMS Scientific and Technological Activities Commission
- 2023-present** **Chair**, Developmental Testbed Center Science Advisory Board

2023 **Panelist**, AMS Town Hall on Open Science Expectations for Model-Based Research
2022-present **Co-Chair**, AMS Future of Meetings Task Force
2022-present **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 102nd 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**, 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

2023 **Lecturer**, UWM Admitted Student Days Mock Lecture Series
2022-2023 **Member**, UWM Freshwater Sciences Dean Search & Screen Committee
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

2022-2023 **Vice Chair**, UWM Freshwater Sciences Academic Program & Curr. Committee
2021-present **Member**, UWM Freshwater Sciences Academic Program & Curr. Committee
2021-2022 **Member**, UWM Freshwater Sciences Climate/Water Asst. Prof. Search 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
2014-2020 **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

2023-present **Trustee**, Village of Grafton, WI
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
Weather and Forecasting

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

Invited Professional Colloquia and Seminars

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”

Invited Workshops and Meteorological Testbeds

- 2023** **NCAR-NOAA Community Modeling Infrastructure Meeting**
 UCAR/NCAR, Boulder, CO

10x, last: 2022 NOAA Hazardous Weather Testbed Spring Forecasting Experiment

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

Adams-Selin, R. D., **C. Evans**, H. C. Vagasky, and D. V. Blount, 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.

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., 283.

Blount, D. V., **C. Evans**, R. D. Adams-Selin, and H. Vagasky, 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, 20th Conf. on Mesoscale Processes*, Madison, WI, Amer. Meteor. Soc., 7.2.

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., 74.

DeYoung, C. P., 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.

DeYoung, C. P., 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.

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., S253.

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, 15th UWM Undergraduate Research Symposium*, Milwaukee, WI.

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, 32nd Conf. on Weather Analysis and Forecasting*, Madison, WI, Amer. Meteor. Soc., 106.

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.

Vagasky, H., R. D. Adams-Selin, **C. Evans**, and D. V. Blount, 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.

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 ARM/ASR PI Meeting*, Rockville, MD, 4.58.

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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.

Public Interviews and Presentations

2023	Learning in Retirement Waukesha County (Fall 2023; observing Wisconsin weather)
2023	Grafton, WI Public Library (9 September 2023; weather balloon demonstration)
2023	Brookfield, WI Public Library (6 September 2023; observing Wisconsin weather)
2023	WUWM Public Radio (13 June 2023 ; Wisconsin drought conditions)
2023	WDJT-TV/CBS 58 (16 March 2023 ; El Niño and Wisconsin weather)
2023	WUWM Public Radio (3 February 2023 ; warm January weather + climate change)
2023	Milwaukee Journal Sentinel (19 January 2023 ; warm January weather)
2023	Milwaukee Journal Sentinel (5 January 2023 ; early-winter temperatures and snow)
2022	UWM Report (10 November 2022 ; hurricane data resource)
2022	Learning in Retirement Waukesha County (17 October 2022; hurricane primer)
2022	WISN-TV (7 September 2022; "Rooftop Weather" interview)
2022	Wall Street Journal (16 August 2022 ; early-starting Atlantic hurricane seasons)
2022	UWM Osher Lifelong Learning Institute (21 February 2022; hurricane primer)
2021	WUWM Public Radio (5 November 2021 ; summer weather and climate change)
2021	350.org Milwaukee Chapter (14 September 2021 ; The Climate Consensus)
2021	WUWM Public Radio (4 August 2021 ; derechos and wildfires)
2021	UWM Research Magazine (16 March 2021 ; hurricane research)
2021	UWM Today (18 February 2021 ; hurricane research)
2021	UWM Alumni Association Master Chat (18 February 2021 ; hurricane primer)
2020	WDJT-TV/CBS 58 (13 December 2020 ; La Niña and Wisconsin winter weather)
2020	WDJT-TV/CBS 58 (14 June 2020 ; extreme rainfall in Wisconsin)
2020	UWM Alumni Magazine (8 June 2020 ; Spring 2020 semester reflection)
2020	Song-a-Day #4045 (28 January 2020 ; songification of Evans et al. (2014) abstract)
2019	AMS On The Air Podcast (18 June 2019 ; extratropical transition of tropical cyclones)
2019	Developmental Testbed Center Newsletter (Spring 2019 ; vision for NWP research)
2019	UWM Report (2 May 2019 ; 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)
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 (6 June 2018 ; Tropical Storm Alberto interview)
2018	UWM Report (19 April 2018 ; Atmospheric Science program changes)
2018	UWM Today (19 April 2018 ; Innovative Weather and Atmospheric Science program)
2018	UWM Report (18 April 2018 ; late-ending winter weather in Wisconsin)
2018	Weather Underground (19 February 2018 ; Tropical Cyclone Kelvin interview)
2017	WISN-TV (30 August 2017; Hurricane Harvey interview)
2017	Milwaukee Area Science Advocates (13 July 2017 ; "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 (15 January 2016 ; 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 (20 November 2014 ; UWM StormReady University designation)
2012	UCAR News (2 July 2012 ; eastern United States derecho)
2011	UCAR News (6 May 2011 ; Tropical Storm Erin research)
2010	LiveScience (12 September 2010 ; central United States derecho)
2010	UCAR News (18 August 2010 ; central United States derecho)

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