

# Curriculum Vita

## Clark Evans

### Personal Information

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#### Current Address

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#### Contact Information

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**Twitter:** [@ClarkEvansWx](https://twitter.com/ClarkEvansWx)

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### Education

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- 2009** Florida State University, Ph.D., Meteorology
- 2006** Florida State University, M.S., Meteorology
- 2004** Florida State University, B.S., Meteorology, Magna Cum Laude  
Minors: Physics, Mathematics

### Professional Positions

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#### Formal Appointments

- 2016-present** Associate Professor, Univ. of Wisconsin-Milwaukee, Milwaukee, WI
- 2014-2020** 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

#### Visiting and Affiliate 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

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- 2018** Invited Participant, Inaugural AMS Early Career Leadership Academy



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

## **Funded Grants and Contracts**

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- 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; 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; \$164,381; 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

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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.

<b>2020</b>	<b>Tropical Meteorology</b>	(Atm Sci 470, Univ. of Wisconsin-Milwaukee)
<b>2019</b>	<b>Num. Weather Prediction</b>	(Atm Sci 730, Univ. of Wisconsin-Milwaukee)
<b>2019</b>	<b>Synoptic Meteorology II</b>	(Atm Sci 361, Univ. of Wisconsin-Milwaukee)
<b>2018</b>	<b>Synoptic Meteorology I</b>	(Atm Sci 360, Univ. of Wisconsin-Milwaukee)
<b>2017</b>	<b>Mesoscale Meteorology</b>	(Atm Sci 460, Univ. of Wisconsin-Milwaukee)
<b>2016</b>	<b>First-Year Seminar</b>	(Atm Sci 194, Univ. of Wisconsin-Milwaukee)
<b>2014</b>	<b>Survey of Meteorology</b>	(Atm Sci 100, Univ. of Wisconsin-Milwaukee)

## **Advised Students**

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### Graduate Researchers

<b>2020-present</b>	<b>Lillie Farrell</b>	(M.S. expected Spring 2022; joint with P. Roebber)
<b>2020-present</b>	<b>Michelle Spencer</b>	(M.S. expected Fall 2021)
<b>2019-present</b>	<b>Dillon Blount</b>	(M.S. expected Spring 2021)
<b>2019-present</b>	<b>Michael Vossen</b>	(M.S. expected Spring 2021)
<b>2017-2019</b>	<b>Jesse Schaffer</b>	(M.S.; joint with P. Roebber)
<b>2016-present</b>	<b>Kevin Prince</b>	(M.S., 2018; Ph.D. expected Spring 2022)
<b>2016-2018</b>	<b>Aidan Kuroski</b>	(M.S.; now with NWS, Milwaukee/Sullivan, WI)
<b>2016-2018</b>	<b>David Nevius</b>	(M.S.; now with Delta Airlines, Atlanta, GA)
<b>2015-2017</b>	<b>Caitlin Crossett</b>	(M.S.; now Ph.D. candidate, Univ. of Vermont)
<b>2014-2016</b>	<b>Alexandra Keclik (Kelly)</b>	(M.S.; now with NWS, Silver Spring, MD)
<b>2014-2016</b>	<b>Bryan Burlingame</b>	(M.S.; now with Northwestern Mutual, Milwaukee, WI)
<b>2014-2016</b>	<b>Caleb Grunzke</b>	(M.S.; now with NWS, Twin Cities/Chanhassen, MN)
<b>2013-2015</b>	<b>Juliana Karloski</b>	(M.S.; now with Space Center Houston, Houston, TX)
<b>2012-2014</b>	<b>Alex Manion</b>	(M.S.; now with NWS, Detroit/Pontiac, MI)
<b>2011-2013</b>	<b>Brock Burghardt</b>	(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 evaluation committee for nineteen UWM students.

### Undergraduate Researchers

<b>2018-present</b>	<b>Anna Kaminski</b>	(2020-21 UWM Sr. Excellence in Research Awardee)
<b>2018-2020</b>	<b>Giorgio Sarro</b>	(2020 AMS Father James B. Macelwane Awardee)
<b>2018</b>	<b>Marie Freres</b>	
<b>2010</b>	<b>Dereka Carroll-Smith</b>	(as SOARS Research Mentor at NCAR)

I have also advised nine senior undergraduate Capstone projects and co-advised two rising high-school seniors on introductory research.

## **Professional Service**

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### National/International Service (Excluding Conference Session Chair/Organizer)

<b>2020-present</b>	<b>Chair</b> , AMS Annual Meeting Oversight Committee
<b>2020-present</b>	<b>Member</b> , Developmental Testbed Center Science Advisory Board
<b>2020</b>	<b>Panelist</b> , 8 <sup>th</sup> Annual AMS Conference for Early Career Professionals
<b>2019-present</b>	<b>Editor</b> , <i>Monthly Weather Review</i>
<b>2019-present</b>	<b>Member</b> , AMS Annual Meeting Oversight Committee
<b>2018-present</b>	<b>Vice-Chair</b> , AMS Committee on Weather Analysis and Forecasting
<b>2018</b>	<b>Rapporteur</b> , 9 <sup>th</sup> WMO International Workshop on Tropical Cyclones
<b>2018</b>	<b>Organizer</b> , AMS Special Symposium on Impact-Based Decision Support Services
<b>2017</b>	<b>Member</b> , AMS 28 <sup>th</sup> Conf. on WAF/24 <sup>th</sup> Conf. on NWP Program Committee
<b>2016-present</b>	<b>Member</b> , AMS Committee on Weather Analysis and Forecasting
<b>2012, 2016</b>	<b>Member</b> , AMS Max Eaton Award Selection Committee
<b>2015</b>	<b>Panelist</b> , 15 <sup>th</sup> Annual AMS Student Conference
<b>2015</b>	<b>Member</b> , 17 <sup>th</sup> Cyclone Workshop Science Committee
<b>2014</b>	<b>Member</b> , 8 <sup>th</sup> WMO International Workshop on Tropical Cyclones Working Group
<b>2013-2015</b>	<b>Member</b> , AMS Weather Analysis and Forecasting Statement Revision Team

**2013** **Panelist**, 1<sup>st</sup> Annual AMS Conference for Early Career Professionals  
**2012-2018** **Associate Editor**, *Monthly Weather Review*  
**2012** **Rapporteur**, 4<sup>th</sup> WMO International Workshop on Extratropical Transition  
**2010** **Member**, 7<sup>th</sup> WMO International Workshop on Tropical Cyclones Working Group  
**2010** **Member**, AMS 25<sup>th</sup> Conf. on Severe Local Storms Program Committee  
**2010** **Member**, AMS 29<sup>th</sup> Conf. on Hurricanes/Tropical Meteor. Program Committee

University Service

**2020-present** **Member**, UWM Research Computing Steering Group  
**2018-2020** **Member**, UWM Information Technology Policy Committee  
**2017-2019** **Recruitment Ambassador**, UWM College of Letters and Science  
**2014** **Coordinator**, UWM StormReady Initiative (renewed 2017 and 2020)  
**2012-present** **UCAR Member Representative**, Univ. of Wisconsin-Milwaukee  
**2011-present** **Local Manager**, WxChallenge Forecasting Competition  
**2011-present** **Co-Advisor**, UWM Atmospheric Science Club

Department/Program Service

**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

Public/Community Service

**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 Recurring 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 been interviewed by local television stations, national and international media, and UWM over twenty times since 2012.

## **Invited Workshops and Testbed Programs**

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- 2020**      **EarthCube Research Coordination Network "What About Model Data?" Workshop**  
Univ. of North Dakota, Grand Forks, ND and UCAR, Boulder, CO
- 2020**      **NOAA HWT Spring Forecasting Experiment (8x total: 2011-2013, 2015, 2017-2020)**  
NOAA/National Severe Storms Laboratory, Norman, OK
- 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)*

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### **2021**

Prince, K., and **C. Evans**, 2021: A climatology of indirect tropical cyclone interactions in the North Atlantic and western North Pacific basins. *Abstract, 34<sup>th</sup> Conf. on Hurricanes and Tropical Meteorology*, New Orleans, LA, Amer. Meteor. Soc., 10D.4.

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

Vossen, M. P., and **C. Evans**, 2020: A preliminary investigation of the thermodynamics supporting non-/weakly baroclinic tropical cyclone overland maintenance and intensification. *Abstract, 34<sup>th</sup> Conf. on Hurricanes and Tropical Meteorology*, New Orleans, LA, Amer. Meteor. Soc., TBD.

### **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, 30<sup>th</sup> Conf. on Weather Analysis and Forecasting/26<sup>th</sup> 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, 33<sup>rd</sup> 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, 12<sup>th</sup> 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, 29<sup>th</sup> Conf. on Education*, Boston, MA, Amer. Meteor. Soc., 1252.
- Prince, K., and **C. Evans**, 2020: A climatology of indirect tropical cyclone interactions. *Abstract, 30<sup>th</sup> Conf. on Weather Analysis and Forecasting/26<sup>th</sup> 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, 19<sup>th</sup> 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, 12<sup>th</sup> 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, 19<sup>th</sup> 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, 74<sup>th</sup> 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, 11<sup>th</sup> 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.
- Prince, K., and **C. Evans**, 2019: A climatological analysis of indirect tropical cyclone interactions in the North Atlantic and Northwest Pacific basins. *Abstract, 19<sup>th</sup> Cyclone Workshop*, Seon, Germany, 4.4.
- Sarro, G. M., and **C. Evans**, 2019: An investigation of intensity, structural, and timing extremes for tropical cyclones that become extratropical. *Abstract, 11<sup>th</sup> UWM Undergraduate Research Symposium*, Milwaukee, WI, 163.
- Schaffer, J., P. J. Roebber, and **C. Evans**, 2019: Using evolutionary programming to generate improved tropical cyclone intensity forecasts. *Abstract, 18<sup>th</sup> Conf. on Artificial Intelligence and its Applications to the Environmental Sciences*, Phoenix, AZ, Amer. Meteor. Soc., 4B.1.
- Schaffer, J., P. J. Roebber, and **C. Evans**, 2019: Using evolutionary programming to generate improved tropical cyclone intensity forecasts. *Abstract, 73<sup>rd</sup> Interdepartmental Hurricane Conference*, Miami, FL, Natl. Oceanic and Atmos. Administration, 9.2.

## **2018**

- Evans, C.**, and R. McTaggart-Cowan, 2018: Extratropical transition. *9<sup>th</sup> 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/convection-allowing model-forecast vertical profiles in warm-season, thunderstorm-supporting environments. *Abstract, 29<sup>th</sup> Conf. on Weather Analysis and Forecasting/25<sup>th</sup> Conf. on Numerical Weather Prediction*, Denver, CO, Amer. Meteor. Soc., 10A.5.
- Evans, C.**, S. J. Weiss, I. L. Jirak, A. R. Dean, and D. S. Nevius, 2018: An evaluation of paired regional/convection-allowing model-forecast vertical profiles in warm-season, thunderstorm-supporting environments. *Abstract, 29<sup>th</sup> Conf. on Severe Local Storms*, Stowe, VT, Amer. Meteor. Soc., 5.5.
- Kuroski, A., 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, 3<sup>rd</sup> 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.
- Kuroski, A., and **C. Evans**, 2018: An investigation of the conditional practical predictability of the 31 May 2013 heavy-rain-producing mesoscale convective system. *Abstract, 29<sup>th</sup> Conf. on Weather Analysis and Forecasting/25<sup>th</sup> Conf. on Numerical Weather Prediction*, Denver, CO, Amer. Meteor. Soc., P344592.
- Kuroski, A., and **C. Evans**, 2018: An investigation of the conditional practical predictability of the 31 May 2013 heavy-rain-producing mesoscale convective system. *Abstract, 29<sup>th</sup> Conf. on Severe Local Storms*, Stowe, VT, Amer. Meteor. Soc., 6B.2.
- 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. *Abstract, 29<sup>th</sup> Conf. on Weather Analysis and Forecasting/25<sup>th</sup> Conf. on Numerical Weather Prediction*, Denver, CO, Amer. Meteor. Soc., 12B.4.
- Schaffer, J., P. J. Roebber, and **C. Evans**, 2018: Using evolutionary programming to generate improved tropical cyclone intensity forecasts. *Abstract, 72<sup>nd</sup> Interdepartmental Hurricane Conference*, Miami, FL, Natl. Oceanic and Atmos. Administration, 5.2.
- Schaffer, J., P. J. Roebber, and **C. Evans**, 2018: Using evolutionary programming to generate improved tropical cyclone intensity forecasts. *Ext. Abstract, 33<sup>rd</sup> Conf. on Hurricanes and Tropical Meteorology*, Ponte Vedra Beach, FL, Amer. Meteor. Soc., 7B.5.
- Schaffer, J., P. J. Roebber, and **C. Evans**, 2018: Using evolutionary programming to generate improved tropical cyclone intensity forecasts. *Abstract, 29<sup>th</sup> Conf. on Weather Analysis and Forecasting/25<sup>th</sup> Conf. on Numerical Weather Prediction*, Denver, CO, Amer. Meteor. Soc., 9A.4.

## **2017**

- Crossett, C., and **C. Evans**, 2017: An examination of the dynamics of a rear-inflow jet associated with an idealized mesoscale convective system. *Abstract, 28<sup>th</sup> Conf. on Weather Analysis and Forecasting/24<sup>th</sup> Conf. on Numerical Weather Prediction*, Seattle, WA, Amer. Meteor. Soc., 10B.2.
- Evans, C.**, and coauthors, 2017: The extratropical transition of tropical cyclones: cyclone evolution and direct impacts. *Abstract, 18<sup>th</sup> Cyclone Workshop*, Sainte-Adele, QC.
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## **2006**

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## **Professional Memberships & Honor Societies**

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**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