

Jennifer Collins

Dr. Jennifer Collins is a Professor in the School of Geosciences at the University of South Florida. Her research focuses on weather and climate. As a hurricane researcher, Dr. Collins is interested in the interaction between large scale climatic patterns such as the El Niño - Southern Oscillation (ENSO) and the Madden – Julian Oscillation and seasonal and intraseasonal patterns of tropical cyclone activity in multiple oceanic basins. She is currently studying the environmental factors influencing the interannual and intraseasonal variation of hurricane activity in the eastern North Pacific and Atlantic oceans. As well as her work in the physical sciences she also works in the social sciences as she examines human behavior relating to hurricane evacuation, with recent papers on Hurricane Matthew and Irma. In addition to her hurricane work, Dr. Collins works in other areas related to weather, climate and hazards. She works closely on projects with the National Weather Service involving tornadoes and fog. In addition, she collaborates with international researchers and works in the area of climate change. Dr. Collins is the President of the West Central Florida Chapter of the American Meteorological Society, recently elected National Councilor of the Association of American Geographers, and former Chair of the Climate Specialty Group of the Association of American Geographers.

Ian Faloona

Ian Faloona is an associate professor at the University of California Davis. He studied physical chemistry at UC Santa Cruz, including summer research in computational chemistry at Los Alamos National Lab, and then earned a Ph.D. in meteorology from the Pennsylvania State University. For four years in between he worked as an air quality consultant with SECOR Inc. in Fort Collins, Colorado. Later, after a postdoc in the Advanced Study Program at the National Center for Atmospheric Research, he joined the atmospheric science faculty at UC Davis. His research interests include the airborne investigation of vertical mixing and near-field pollutant dispersion, observational emission estimates, the meteorology of coastal fog, planetary boundary layer dynamics, biogeochemical cycling, and atmosphere/ocean photochemistry.



Rick Smith is the Warning Coordination Meteorologist at the National Weather Service's Norman Forecast Office. He manages NWS Norman's hazardous weather preparedness, outreach and decision support services activities for the office's 56 county area of responsibility. Rick and the NWS Norman staff work closely with the media, emergency managers and other state, county, tribal and local government officials to ensure that communities in central and western Oklahoma and western north Texas are ready when hazardous weather threatens.

Rick has been recognized for his work with several awards, including the

National Weather Association's Individual Operational Achievement Award in 2013, and the American Meteorological Society's Francis W. Reichelderfer Award in 2015. Rick was also awarded with the Department of Commerce's Bronze Medal Award in 2015 for his vision and application to social media to advance the goals for a Weather Ready Nation. Rick is a member of the National Weather Association, the American Meteorological Society and the Oklahoma Emergency Management Association.

Rick has been a meteorologist with the National Weather Service since 1992, and worked at the forecast offices in Memphis, Tennessee and Tulsa, Oklahoma, as well as the NWS Southern Region Headquarters in Fort Worth, Texas before assuming his position in Norman in January of 2002

Roger Wakimoto

Roger Wakimoto is the Vice Chancellor for Research at UCLA.

Most recently, Wakimoto served as Assistant Director for the National Science Foundation Directorate for Geosciences (2013–17), where he led an organization with an annual budget of approximately \$1.3 billion in support of core research in the atmospheric and geospace, polar, earth and ocean sciences. He was previously a professor with the UCLA atmospheric sciences faculty. He subsequently became director of the National Center for Atmospheric Research (NCAR), a federally funded research and development center with a staff of approximately 750 devoted to service, research and education in the atmospheric and related sciences.

Wakimoto is an atmospheric scientist specializing in research on mesoscale meteorology, particularly severe convective storms and radar meteorology. He has received several awards and honors, including a scientific and technical achievement award from the Environmental Protection Agency for research on air pollution, and the Clarence Leroy Meisinger Award from the American Meteorological Society for his contributions to understanding mesoscale weather events. He received a B.S. in meteorology from San Jose State University and a Ph.D. in geophysical sciences from the University of Chicago.



Curtis Walker

Dr. Curtis Walker recently completed his doctorate in Earth and Atmospheric Sciences with a Meteorology/Climatology specialization from the University of Nebraska-Lincoln. During his graduate studies he was the recipient of the American Meteorological Society Graduate Fellowship Award sponsored by ITT Exelis (now Harris) and the National Science Foundation Graduate Research Fellowship. His research interest is applied boundary layer meteorology with emphasis on road weather applications, renewable energy and urban meteorology. Prior to his graduate studies he participated in the University Corporation for Atmospheric Research Significant Opportunities in Atmospheric Research and Science (SOARS) Program and has since returned "home" to Boulder, Colorado as an Advanced Study Program Postdoctoral Fellow with the National Center for Atmospheric Research. As an African American meteorologist, he wishes to inspire all to pursue their dreams and research passions keeping societal impacts and benefits at the forefront. The last time the annual meeting was in Phoenix, he had the honor of serving on the

Presidential Forum panel. This year, he looks forward to sharing his experiences with the next generation at the student conference.
Nina Oakley
Nina Oakley is a Regional Climatologist with the NOAA Western Regional Climate Center (WRCC) at the Desert Research Institute in Reno, Nevada. In addition to her climate services role with WRCC, Nina also conducts applied research on the impacts of extreme precipitation events in the western US. She is interested in the origins and predictability of short-duration, high intensity precipitation as it pertains to shallow landslides and post-wildfire debris flows. Nina received bachelor's degrees in geography and Spanish from the University of California, Santa Barbara. She then completed a secondary science teaching credential program at the University of Hawaii, Mānoa. Following that, she attended the University of Nevada, Reno, where she received her master's and doctoral degrees in atmospheric science. In addition to watching the weather, Nina enjoys surfing, paddling outrigger canoe, stand-up paddleboarding, snowboarding, and mountain biking.
Michael Ventrice
Dr. Michael Ventrice is a Meteorological Scientist and Software Engineer at The Weather Company, an IBM Business. The Weather Company helps millions of consumers and businesses make informed decisions based on weather data. You may be familiar with Weather.com or Weather Underground – all part of The Weather Company. Michael is also the lead sub-seasonal (Week 3-5) forecaster at the company. He received his Ph.D. at the University at Albany, focused in tropical meteorology and is considered an expert in global circulation. Due to the nature of his background, Dr. Ventrice is often quoted in various media outlets periodically appears on TV or recorded videos on weather.com during big weather events. Dr. Ventrice is a member of the AMS, and was the 2018 Chair for the AMS Board for Private Sector Meteorologists. You can follow him on twitter @MJVentrice.
Nick Troiano
Nick is originally from Westchester County, NY – where he grew up and attended school during the first 18 years of his life. After developing a passion for the weather, he decided to pursue a career in meteorology. After graduating from SUNY Albany with a degree in Atmospheric Science in 2008, Nick went on to pursue graduate work the following year. He attended Plymouth State University in New Hampshire through 2010 and went on to receive his Master's in Applied Meteorology, with a specialization in seasonal weather forecasting. From there, Nick went on to serve as the Lead Long-Range Weather Expert at WeatherWorks, a private Weather Decision Support Firm based in Northern NJ. After serving this role for several years, Nick went on to accept an offer from Mars Incorporated as a member of the Commercial Applied Research Team. In his role as Commodity Research Manager & Lead Meteorologist, Nick is currently responsible for delivering all the global seasonal weather outlooks in support of all raw material categories the business sources. He is also the sole analyst responsible for supporting the peanut and tree nut category and assisting in price risk management decisions related to

	supply-side market volatility.
	Jean E. Vieux
	Co-Founder/President/Project Manager Vieux & Associates, Inc., 1992-present
	MS Environmental Science, Emphasis in Geographic Information Systems, University of Oklahoma- Civil Engineering and Environmental Science, Norman, Oklahoma
	Ms. Jean Vieux is a co-founder and President of Vieux & Associates, Inc., a member company of AE (Advanced Environmental) Monitoring. This innovative group brings sensors, data collection, analysis and applications under the same corporate umbrella.
	She performs project management, maintains client communications and coordinates and manages the firm's interdisciplinary team. This includes a team of meteorologists, hydrologists, software and information technology professionals.
	Jean has 25 years of experience in managing projects for municipal drainage and infrastructure applications and integrated flood warning systems. She has a GIS and environmental background and broad experience developing rainfall and runoff applications. Projects are geographically diverse, including international and domestic applications.
	Jean is active in the hydrologic, weather and environmental communities through participation in professional societies and service on steering committees and board of directors. She is engaged with scientific and technical organizations including the American Meteorological Society, the National Hydrologic Warning Council, ALERT User Group, the Water Environment Federation, and is a member of the Environmental Information Systems Working Group (EISWG), serving NOAA and the National Weather Service (2013-present).
	Shunondo Basu
	Shunondo Basu is meteorologist by training and now applies his skills in the world of private equity finance. He has been a member of the AMS since 2012 upon his visit to the 93rd Annual Conference in New Orleans. He now serves as a member of the Energy Committee for the AMS. Shunondo earned degrees in Meteorology and Financial Economics from Rutgers University in 2014.
	During his time at Bloomberg NEF, he specialized in power and natural gas market analysis, along with long-range weather forecasting for energy traders. He also obtained the Energy Risk Professional certification, administered by the Global Association of Risk Professionals.
	Shunondo now works at BlackRock where he helps perform analysis for deals within the world of private equity. He is able to provide energy market expertise all while incorporating his knowledge of weather and how a changing climate can affect the economics of various energy assets in the coming decades.

Kei Koizumi
Kei Koizumi is a Senior Advisor in Science Policy at the American Association for the Advancement of Science (AAAS). He joined AAAS in February 2017 after 8 years as Assistant Director for Federal Research and Development and Senior Advisor for the National Science and Technology Council at the White House Office of Science and Technology Policy (OSTP). There, he was responsible for leading OSTP engagement on the U.S. Federal R&D budgets, appropriations, and policies and for S&T policy coordination through the National Science and Technology Council.
Budget and Policy Program at the American Association for the Advancement of Science (AAAS).
He received his M.A. from the Center for International Science, Technology, and Public Policy program at the George Washington University (where he is currently an instructor), and received his B.A. in Political Science and Economics from Boston University. He is from Columbus, Ohio. He is a Fellow of the American Association for the Advancement of Science.
 William H. Hooke William Hooke is associate executive director of the American Meteorological Society and a senior policy fellow in the AMS Policy Program. Educated as an atmospheric scientist (Ph.D., University of Chicago, 1967), he worked for NOAA from 1967-2000, in a series of research and management positions, including Deputy Chief Scientist and Acting Chief Scientist. He also served as Senior Scientist to Commerce Secretary William Daley. (From 1969-1987, he was also an adjoint faculty member at the University of Colorado.) He was elected a member of the American Philosophical Society in 2006. For more information, see his book <i>Living on the Real World: How thinking and acting like meteorologists will help save the planet</i> (AMS, 2014). You can also check out his blog by the same title: Living on the Real World. You'll find some 900 posts written over an eight-year span covering a wide range of topics.
Naoko Sakaeda Dr. Sakaeda is an assistant professor in the School of Meteorology at the University of Oklahoma. She has received a Bachelor of Science at the University of Washington in Seattle, Washington and a Ph.D. in atmospheric sciences at the University at Albany, State University of New York in Albany, New York. Prior to joining the School of Meteorology as faculty, she was a National Research Council postdoctoral associate at NOAA/ESRL in Boulder, Colorado. As a faculty member at the School of Meteorology, she teaches undergraduate and graduate level meteorology courses, mentors research projects for students, and conducts her own research in tropical meteorology.

Her research is focused on understanding the dynamics of tropical clouds and precipitation on various spatiotemporal scales and their interactions with higher latitudes. Her interest in tropical meteorology partly comes from the fact that she was born and raised in southeast Asia before coming to the United States. Shawn Milrad Dr. Shawn Milrad holds a B.Sc. in Atmospheric Science from Cornell University and a M.Sc. and Ph.D in Atmospheric and Oceanic Sciences from McGill University in Montreal, Canada. Originally from New York City, he has been an Assistant Professor of Meteorology at Embry-Riddle Aeronautical University since 2013. His teaching responsibilities include introductory meteorology, aviation weather, synoptic-dynamic meteorology, climate dynamics, and all levels of undergraduate weather forecasting. He has also developed numerous severe weather experiential learning courses, including an annual Great Plains storm chasing course. His research is on extreme weather events, especially in the context of climate change. Specific research elements focus on extreme precipitation/flash floods, heatwaves, ice storms, and the extratropical transition of tropical cyclones. In early 2018, he published an introductory weather analysis and forecasting textbook aimed at undergraduate 'bridge' meteorology courses and weather-adjacent professionals. Tim Hall Tim Hall is a Certified Consulting Meteorologist (CCM) with specialized subject matter expertise in applied artificial intelligence and environmental predictive data analytics, applied climatology, weather analysis and forecasting, forensic meteorology, weather satellite instrumentation, and weather risk management. He holds a M.S. in Atmospheric Science (1997) from Colorado State University and a B.S. in Meteorology (1992) from The Pennsylvania State University. Tim Hall is an executive at The Aerospace Corporation and a military veteran having retired as a Lt Col from the Air Force Reserve in 2013. Following his commissioning through ROTC in May 1992, Tim entered active duty in the U.S. Air Force as a weather officer. His military assignments ranged from operational weather forecasting to acquisition program management. From 2000 to 2003 he served as Officer-in-Charge of the Joint Presidential Weather Support Unit, directing a team that provided global forecast services to the White House Military Office and Marine One. In 2006, he transitioned to the Air Force Reserve and joined The Aerospace Corporation as a member of the technical staff. Currently, he directs a team of over 40 engineers and scientists providing support to the National Oceanic and Atmospheric Administration (NOAA). He serves as a senior technical advisor to NOAA's Assistant Administrator for Satellite and Information Services. Tim is an active member of the American Meteorological Society (AMS), National Weather Association (NWA), and NCIM which is an Association of Certified Meteorologists. For the NWA, Tim is a member of the Remote Sensing Committee. Within the AMS, he currently serves as Chair of the AMS Board for Certified Consulting Meteorologists (BCCM) as is a member of the AMS Steering Committee for the Commission on the Weather, Water and Climate Enterprise (CWWCE). From 2010-2013, he served on the AMS Board





Steve Nesbitt

Prof. Nesbitt leads a research group comprised of research staff, graduate students and undergraduate researchers in the Department of Atmospheric Sciences, where his research and teaching interests reside in the remote sensing of precipitation using radar and passive microwave sensors, mesoscale and cloud dynamics and microphysics, land-atmosphere interaction, and numerical simulation, data science, and high-performance computation. He is the Principal Investigator of the NSF/NOAA/NASA RELAMPAGO (Remote sensing of Electrification, Lightning, And Mesoscale/microscale Processes with Adaptive Ground Observations) field campaign, which will observe convective storms in central Argentina alongside the DOE CACTI (Clouds, Aerosols, and Complex Terrain Interactions) field campaign, which he serves as a Co-Investigator.

Prof. Nesbitt received his B.S. in Meteorology *summa cum laude* in 1997 from the State University of New York at Oswego, his M.S. in Meteorology in 1999 from Texas A&M University, and his Ph.D. in Meteorology from the University of Utah in 2003. He was a Research Scientist in the Department of Atmospheric Science at Colorado State University from 2003-2006. Prof. Nesbitt joined the faculty in Urbana in 2006.

Dr. Nesbitt served as the co-chair of the 2011 AMS Conference on Radar Meteorology and Chair of the AMS Radar Meteorology Scientific and Technical Activities Committee from 2013-2016. Prof. Nesbitt has received several awards, including the NASA Earth System Science Graduate Fellowship from 2001-2003, the NASA New Investigator in Earth System Science Award in 2008, the NASA Group Achievement Award in 2012 and 2015, the NASA Robert H. Goddard Award for exceptional achievement. In 2016, he received the Exceptional Service Award for service to the AMS Radar Committee. Nesbitt currently serves on the NASA Precipitation Measurement Missions and Ocean Vector Winds science teams and serves on the Science Advisory Group of the future NASA Aerosol and Clouds, Convection, and Precipitation (A-CCP) mission.



Morgan Barry

Morgan Barry is a meteorologist with the National Weather Service (NWS) Office in Mobile, AL, which serves parts of Mississippi, Alabama, and Florida. There are many challenging forecasts for this area ranging from hurricanes and tornado outbreaks to flash flooding and even an occasional winter storm, but the biggest challenge is communicating the risk for rip currents – the #1 weather-related killer in the counties served by NWS Mobile/Pensacola. Communicating the risk of deadly rip currents to tourists, especially using social media, is a topic that Morgan is very passionate about.

Morgan serves as the focal point for both social media and graphics for NWS Mobile/Pensacola, but also works on several regional and national projects within the NWS. Morgan previously served on a regional team that developed social media initiatives within NWS Southern Region. Currently, Morgan is the Regional Field Lead for the NWS Supplemental Assistance Volunteer Initiative (SAVI) Team that utilizes volunteer NWS meteorologists to assist with social media crowdsourcing and data mining during high impact weather.

Recently, Morgan developed several short training modules focusing on social media data mining for the NWS Warning Decision Training Division. Morgan is part of the core team that spearheaded the #SafePlaceSelfie Weather Ready Nation campaign. She is also a member of a grassroots team focusing on initiatives within the NWS to better serve the deaf and hard of hearing community.

Before working at NWS Mobile/Pensacola, Morgan worked at the NWS Office in Tallahassee, FL as a SCEP Intern while attending graduate school at Florida State University. Prior to graduate school, Morgan worked at the NWS Office in Louisville, KY as a STEP intern and at the NWS Office in Charleston, SC as a volunteer while attending Ball State University. Morgan graduated from Ball State University in 2007 with degrees in meteorology and GIS.



second phase of the Verification of the Origins of Rotation in Tornadoes Experiment (VORTEX2) in 2009 and 2010. Dr. Richardson served as the chair of the University Corporation for Atmospheric Research (UCAR) President's Advisory Committee on University Relations, as an editor of the American Meteorological Society (AMS) journal Monthly Weather Review, as an elected Councilor for the AMS, as the chair of the AMS Committee on Severe Local Storms, and as a member of the writing team for the National Academy Report Integrating Social and Behavioral Sciences within the Weather Enterprise. She currently serves on the National Center for Atmospheric Research (NCAR) Advisory Panel, on the Advisory Council for the European Severe Storms Laboratory, on the AMS Task Force on Diversity, Equity, and Inclusion, and as the Planning Commissioner for the AMS. She earned her Masters and Ph.D. in Meteorology from the University of Oklahoma in 1993 and 1999, respectively, and her B.S. in Physics from the University of Wisconsin-River Falls in 1990. . She enjoys teaching and mentoring and has been a professor at Penn State since 2002.

Brad Colman

Dr. Colman is the Director of Weather Strategy for The Climate Corporation, where he oversees and guides the design and execution of the Bayer/Monsanto/Climate Enterprise weather programs. In this role, he coordinates across multiple business units to set Enterprise priorities and then works closely with vendors, engineers, and scientists, to map out the optimal course necessary to meet these priorities. The program spans across global weather stations, data acquisition and validation, data repository architecture and dissemination, and domain expertise. Central to this effort is The Climate Corporation's Weather Science Team (a team of statisticians, machine learners, and atmospheric scientists) that develops unique weather, climate, and decision support information for the global agricultural industry. Before Climate, Brad worked for nearly two years on a Microsoft team chartered to grow a new Microsoft consumer weather service to serve the entire Microsoft ecosystem.

Prior to joining the private sector, Brad enjoyed a long and diverse career with NOAA where he worked at: The National Weather Service's forecast office in Seattle Washington; NOAA's Environmental Research Laboratory in Boulder, Colorado; and was the Acting Director of NOAA's Meteorological Development Laboratory in Silver Spring, Maryland. Brad is an Affiliate Associate Professor in Atmospheric Sciences at the University of Washington.

Brad holds a Sc.D. in Atmospheric Sciences from the Massachusetts Institute of Technology and a B.S. in Earth Sciences and Mathematics from Montana State University. He has published numerous articles in the scientific journals, written several book chapters, and has co-edited an award winning two-volume handbook on Weather, Climate and Water published by Wiley Press. He is a member and Fellow of the American Meteorological Society (AMS), and has served in a number of different roles within the Society. Brad is a member of the Washington State Academy of Sciences and is currently Co-Chair of NOAA's Science Advisory Board's Environmental Information Services Working Group.



Kevin R. Petty

Dr. Kevin R. Petty is the Chief Science Officer for Vaisala, a company that delivers weather- and climate-based products and solutions to meet a wide range of needs in the meteorological, transportation, energy, and defense industries. In addition, Vaisala provides environmental measurement and monitoring capabilities that support industrial applications and the life sciences sector. Kevin is responsible for helping to define Vaisala's research and development strategy, setting technology research priorities, leading teams of scientists and engineers, and supporting global product development efforts. He also is responsible for engaging with the weather enterprise, with a focus on identifying and establishing collaborations, supporting and promoting key initiatives, and fostering community.

Kevin earned his M.S. (1994) and Ph.D. (1997) in Atmospheric Sciences from Ohio State University and a B.S. (1989) in Mathematics/Secondary Education from Illinois College. After completing his doctoral degree, he accepted a postdoctoral position in the Advanced Study Program at the National Center for Atmospheric Research (NCAR). He continued to explore his interests in tropical meteorology and contributed to NCAR's science education initiative. It was also during this time that he became increasingly interested in transportation weather. He transitioned to a Project Scientist and assumed responsibility for the management of a Federal Aviation Administration sponsored national scale ceiling and visibility program. Kevin also served as a Scientific Program Manager at NCAR, where he managed the Maintenance Decision Support System and Vehicle Infrastructure Integration programs and supported program development efforts in the areas of surface transportation weather and the energy industry. He spent a portion of his career with the National Transportation Safety Board (NTSB) serving as a Senior Meteorologist in the Operational Factors Division. Kevin is a recognized technical expert in meteorological aspects of transportation accident investigations. During his time with the NTSB, he was dedicated to identifying and quantifying trends in transportation accidents, with particular focus on aviation visibility and icing hazards.

Kevin has continued to assist and serve the meteorological, transportation, and scientific communities through committee and conference participation and memberships in organizations such as the American Meteorological Society, Transportation Research Board, Intelligent Transportation Society of America, American Geophysical Union and Sigma Xi.



Paul Roundy

I grew up on a neighbor's farm in Idaho to parents who did not hold degrees. I have a BS in physics from Utah State University, and a PhD in Meteorology from Penn State. I did a postdoc at the University of Colorado Boulder, where I worked with George Kiladis. My assistant professorship began August of 2006, and I was promoted to full professor this year. I study organized convection in the tropics and how it interacts with the global atmospheric circulation on timescales of a few days to a few years.

I have four children (the first was born finals week my first semester of Grad School), and the last was born in the van on the way to the hospital in 2007. I

	enjoy hiking, gardening, kayaking, and other outdoor activities.
	Paul Pisano
	Mr. Paul Pisano is the Team Leader of the Road Weather and Work Zone Management Team in the Federal Highway Administration (FHWA), Office of Transportation Operations. Mr. Pisano has worked for the FHWA for 33 years, and in his current capacity he is responsible for two programs: the program that addresses the effects of weather on transportation safety and operations, and the program that seeks to improve transportation safety and mobility in and around work zones. Paul is the recipient of the 2016 Kenneth C. Spengler Award from the American Meteorological Society, and his education is in Civil Engineering, holding Bachelor of Science and Master of Science degrees from the University of Maryland. Contact info: 1200 New Jersey Ave., SE, Washington DC 20590, 202-366-1301, paul.pisano@dot.gov
-	Jeff Basara
	Dr. Basara received his B.S. Degree in Atmospheric Science from Purdue University and his M.S. and Ph.D. in Meteorology from the University of Oklahoma. He served as a Research Scientist and the Director of Research for the Oklahoma Climatological Survey before joining the School of Meteorology as an Associate Professor in 2012 where he served as the Associate Director of the Graduate Program from 2017-2018. Currently, he serves as the Executive Associate Director of the Hydrology and Water Security Program as well as the Director of the Kessler Atmospheric and Ecological Field Station – a nearly 400 acre facility located near Washington, OK. His research interests are focused on the interactions between weather, climate, water, and ecosystems from local to global scales, and in particular, precipitation extremes and land-atmosphere interactions. In 2014, he was named a Kavli Fellow of the United States National Academy of Sciences.
	Valerie Sloan
	 Dr. Valerie Sloan has a Master's degree Geography and Ph.D. in Geology, and has worked in different sectors, including academia, research labs, and the private sector. These include stints at the Geological Survey of Canada, teaching at universities, and working in consulting and technology firms. In addition, she has spent ten summers doing field work in the high Arctic and the Himalayas. Valerie works in Education & Outreach at the National Center for Atmospheric Research in Boulder, Colorado. She runs career and professional development workshops for undergraduates, graduate students, and postdocs, and supports faculty nationwide in running internships for college students in the
	geosciences. She works with the National Science Foundation and NCAR to increase the participation of students from underrepresented backgrounds in STEM fields.



Maureen Sanders

I work for the Texas Water Development Board in Austin, TX, as a Meteorologist/Hydrologist. I have a bachelor's degree in Meteorology with a minor in Applied Mathematics from Embry-Riddle Aeronautical University in Daytona Beach, FL. I also have a bachelor's degree in History from American Military University. I have been in the US Navy for 9 years. I spent 5 years on active duty and have been in the US Navy Reserves for 4 years. I was born and raised in Kansas City, MO. Like most in our field, I have been fascinated by the weather since I was young.

David Hondula

David Hondula's research examines the societal impacts of weather and climate with an emphasis on extreme heat and health. Recent projects include statistical analysis of health and environmental data sets to improve understanding of the impact of high temperatures on human morbidity and mortality, especially within urban areas. Hondula is also engaged in quantitative and qualitative field work to learn how individuals experience and cope with extreme heat. These efforts are motivated by the overarching goal of reducing unnecessary weather-related illnesses and deaths through effective mitigation and intervention strategies. Hondula is currently an assistant professor at Arizona State University's School of Geographical Sciences and Urban Planning, where he serves on the leadership team for ASU's Urban Climate Research Center.

Hondula received his doctorate in environmental sciences at the University of Virginia and during his graduate school tenure was also a visiting scholar at <u>Umeå University</u> in Umeå, Sweden and <u>Queensland University of Technology</u> in Brisbane, Australia. Hondula is an editorial board member for <u>Environmental Health Perspectives</u> and a member of the Association of American Geographers, American Meteorological Society (AMS), International Association for Urban Climate (IAUC), and International Society of Biometeorology (ISB).



Benjamin Lintner

I graduated with a PhD in Physics from UC Berkeley in 2003. My dissertation work comprised analysis of the spatiotemporal distribution and transport of atmospheric trace constituents. From 2003-2005, I served as a postdoc in the Department of Geography at UC Berkeley, studying the remote tropical impacts (teleconnections) of the El Niño/Southern Oscillation. From 2005-2009, I served as a research scientist in the Department of Atmospheric And Ocean Sciences at UCLA, studying tropical climate dynamics and the coupling between precipitating deep convection and large-scale circulation. In 2009, I joined the faculty of the Department of Environmental Sciences at Rutgers, where I am currently an Associate Professor the Director of the Graduate Program in Atmospheric Science. My current research foci include: understanding the controls on tropical precipitation intensity, frequency, and spatiotemporal variability; diagnosing the pathways through which the land surface and atmosphere interact; and developing and applying novel approaches for the analysis of climate variables. I make use of a diverse array

of observational and reanalysis data sets, a suite of diagnostic approaches, and a vertical hierarchy of models ranging from process-based analytic prototypes to full-blown global climate models.
Kim Klockow McClain Kim Klockow McClain is a research scientist and the societal applications coordinator for the Cooperative Institute for Mesoscale Meteorological Studies (CIMMS). She additionally serves as the group lead for the newly-formed Societal Impacts Group within the National Severe Storms Laboratory (NSSL). Kim's research applies behavioral science methods to address pressing issues in the management of weather and climate risk, especially in the communication of forecast uncertainty and response to hazardous weather warnings. In her other roles, Kim coordinates multidisciplinary research projects and works to build new capacity for the conduct and implementation of social scientific research. Before joining CIMMS/NSSL, Kim worked for several years as a policy advisor for social scientific research at the NOAA Office of Weather and Air Quality outside Washington, D.C., where she served as the first social scientist in the office. In this role, she had the opportunity to coordinate with NSF, the National Academies of Science, congressional committees, the American Meteorological Society Policy Program, partner academic institutions, the AAAS and other NOAA line offices, including the National Weather Service. Kim was the 2013-2014 AMS/UCAR Congressional Science Fellow, and worked in the U.S. Senate on natural hazards mitigation and financing, water infrastructure, control and cleanup of environmental pollution, offshore oil & gas drilling, and fisheries management. She completed her PhD in Human/Hazards Geography from the University of Oklahoma in 2013, and also holds an M.S. in Professional Meteorology from
Bethany Johns Dr. Bethany Johns specializes in bringing people together to advance the progress of science for the benefit of public, academic, and private enterprise. Dr. Johns has a broad spectrum of policy expertise on issues regarding science and innovation, preeminently in space-NASA, science and technology, energy, environment, agriculture, and education. Results include managing a Congressional science caucus; creating and managing a growing federal and local grassroots advocacy program; successfully leading a coalition, working with Congressional leaders, and drafting legislation to secure millions of federal dollars. Dr. Johns is experienced in administering tailored, nuanced strategies to educate, inform and constructively influence policy and policy-makers for many organizations, which includes: Project consultant for the Supporters of Agriculture Research (SoAR) on a multimillion-dollar strategic plan to unify diverse research communities to

effectively influence Congress and policy makers.
Manage government relations and communications for three organizations: American Society of Agronomy, Crops Science Society of America, and the Soil Science Society of America, over 18,000 scientists in university, industry, and government, 12,500 Certified Crop Advisers (CCA), and 781 Certified Professional Soil Scientist (CPSS).
Consult with Commercial Spaceflight Federation, the premier trade association of over 40 businesses at the forefront of commercial aerospace to identify new business in the scientific research sector.
Direct government relations for the American Astronomical Society, the major organization of professional astronomers, planetary scientists, and solar scientists in North America with over 7000 members.
Dr. Johns obtained her Ph.D. and Masters in Physics from Clemson University with an emphasis in policy studies and a B.A. in Physics from Kenyon College.



Thomas Galarneau

Thomas Galarneau received his B.S. in atmospheric science in 2001, M.S. in basic classroom teaching (earth science) in 2003, M.S. in atmospheric science in 2007, and Ph.D. in atmospheric science in 2010, all from the University at Albany. His Ph.D. thesis advisor was Prof. Lance Bosart, and the thesis entitled "Tropical Cyclogenesis Associated with Extratropical Precursors in the North Atlantic Basin". Thomas spent 2010-2015 in Boulder, Colorado. From 2010-2011, he was a visiting fellow at the Cooperative Institute for Research in Environmental Sciences at the University of Colorado and the NOAA Earth System Research Laboratory. From 2011-2015, Thomas was a research scientist at the National Center for Atmospheric Research. He joined the University of Arizona faculty in August 2015.

Thomas has broad research interests that include synoptic-dynamic meteorology, mesoscale meteorology, and extreme weather, with an emphasis on tropical cyclones (TCs), heavy rainfall, and the life cycle of extratropical cyclones. Research efforts include examination of the dynamical aspects of high-impact weather events such as TC Sandy (2012), and examining factors that influence the forecast of TC motion in numerical weather prediction models. As part of TC motion-related research conducted in collaboration with Dr. Chris Davis, he developed a diagnostic equation that can be used to quantitatively assess factors that influence TC motion errors in numerical weather prediction model forecasts. More recently, Thomas has investigated a wide variety of processes and phenomena, such as (1) the importance of convective-scale circulations in the life-cycle of warm seclusion cyclones, (2) the influence of soil moisture conditions on post-landfall TC intensity and rainfall, (3) the mutual interaction of multiple simultaneous TCs in the North Atlantic, and (4) the source of low altitude water vapor during the North American monsoon. He has published over 30 peer-reviewed journal articles and is currently an assistant professor of atmospheric science at the University of Arizona.



Krystle Henderson

Krystle Henderson joined 12 News in Sept. 2013. You may see her several times throughout the day on 12 News as she is currently the Traffic & Weather Anchor/Reporter during the weekdays. You can get Krystle's traffic reports in the early morning on 12 Today, then see her later on 12 News at Noon as she brings you Arizona's forecast. It has always been her dream to be a part of the 12 News team. Krystle's career began in Medford, OR, where she worked at KTVL News 10 for four years as the weekend news and weather anchor and weekday reporter for southern Oregon and northern California. While at KTVL, Krystle won an Associated Press Award for Best Weathercast and another for Best Continuing Coverage. She also hosted a series called Medford's Most Wanted. Krystle graduated from the Walter Cronkite School of Journalism at Arizona State University with a Bachelor of Arts in Broadcast Journalism. At ASU, she also minored in Business at the W.P. Carey School. Krystle was admitted into the National Honor Society of Journalists. She graduated Summa Cum Laude.

Krystle fell in love with weather when she was finishing up her degree at ASU. She did weathercasts for Cronkite Newswatch and wanted to learn more about the science behind it. She then hit the books again and graduated from Mississippi State University in 2013 with a Bachelor of Science and Certificate in Broadcast Meteorology.

Krystle was born in Chandler and also grew up in Gilbert. She has been dancing and performing since she was two years old. She also has a special place in her heart for all animals. While in southern Oregon, she was a well-known advocate for the animal shelters, helping at fundraisers and finding new forever homes for the rescued dogs and cats. Krystle wanted to be a reporter to make a difference. She is excited to give a voice to people (and animals!) that otherwise would have none. She also loves to meet new people and put a smile on their face.

Send her your story ideas or weather photos at khenderson1@12news.com You can also find her on Facebook and follow her on Twitter @12NewsKrystle



Rosimar Rios-Berrios

Dr. Rosimar Rios-Berrios is an Advanced Study Program Postdoctoral Fellow at the National Center for Atmospheric Research (NCAR), where she will become a Scientist I in August 2019. Her research focuses on tropical weather phenomena, with emphasis on tropical cyclone formation and intensification. Her interest in meteorology was sparked by many encounters with tropical cyclones while growing up in Puerto Rico.

Rosimar received her Ph.D. in atmospheric science from the University at Albany (UAlbany), State University of New York in 2017. Her dissertation, which focused on tropical cyclones interactions with vertical wind shear, was recognized with UAlbany's Department of Atmospheric and Environmental Sciences Narayan R. Gokhale Distinguished Research Scholarship and UAlbany's College of Arts and Sciences Distinguished Dissertation Award. Before joining UAlbany, she received a B.Sc. in Theoretical Physics and a Curricular Sequence in Meteorology from the University of Puerto Rico at Mayagüez (*Antes, ahora, y siempre: ¡Colegio!*).

Dr. Rios-Berrios has been an active member of the American Meteorological Society (AMS) since 2007. She was a member and president of the AMS Student Chapter at the University of Puerto Rico at Mayagüez. She was also a member of the AMS Student Conference Planning Committee during 2011–2016, and she served as a Co-Chair for the 13th and 14th AMS Annual Student Conferences. She is excited to speak at a conference that holds a special place in her career! Outside of her professional life, Rosimar enjoys running and training for half marathons as well as hiking, cooking, traveling, practicing yoga, and reading fiction books. Feel free to contact Rosimar via e-mail at rberrios at ucar dot edu or via Twitter @RosimarWx.
Julie Demuth Julie Demuth, PhD, is a Project Scientist at the National Center for Atmospheric Research (NCAR) in the Mesoscale and Microscale Meteorology (MMM) Lab with the Weather Risks and Decisions in Society (WRaDS) research group. She has been working for 13 years on integrating social science research with the meteorological research and practitioner communities. With a hybrid background in atmospheric science and in communication, Julie conducts research on hazardous weather risk communication, risk perceptions, and responses; her work is with both experts, such as weather forecasters, and members of the public. Her work centers on understanding how forecast information, in conjunction with other factors, influence what people think and feel and how they respond. Some of Julie's current work includes (1) studying how people's previous weather experiences change the way they perceive future weather risks, (2) analyzing Twitter data to understand people's evolving risk assessments as hurricane and tornado threats unfold in space and time, (3) exploring people's perspectives on probabilistic tornado warnings, and (4) identifying NWS forecasters' interpretations of and needs for deterministic and ensemble guidance from convection-allowing models. Prior to being at NCAR, Julie worked for three years in Washington DC as a Program Officer at the National Academies of Sciences, Engineering, and Medicine for the Board on Atmospheric Sciences and Climate. Julie received her BS in meteorology from the University of Nebraska-Lincoln, her MS in atmospheric science from Colorado State University, and her PhD in public communication and technology from Colorado State University.



Kristen Averyt

Kristen Averyt, Ph.D. serves as the eighth president of the Desert Research Institute (DRI), where she leads over 450 scientists, engineers, students, and support staff who rank among the top in the world and who are advancing research critical to Nevada's future and addressing the needs of our changing planet.

Dr. Averyt was one of many scientists who shared in the 2007 Nobel Peace Prize awarded to the Intergovernmental Panel on Climate Change (IPCC). She was a lead author on the US National Climate Assessment released in 2014 and is a senior policy fellow of the American Meteorological Society. A recipient of the National Academies Christine Mirzayan Science and Technology Policy Fellowship and the NOAA Sea Grant John A. Knauss Marine Fellowship, Dr. Averyt has a long history of working to transfer science into sound policy decisions.

Dr. Averyt formerly served as the associate director for science for the Cooperative Institute for Research in Environmental Sciences (CIRES) at the University of Colorado, Boulder. She holds a Ph.D. in geological and environmental sciences from Stanford University and a Master of Science in chemistry from the University of Otago, New Zealand. She completed her undergraduate degrees in marine science and chemistry at the University of Miami.

Dr. Averyt serves on the boards of the Economic Development Authority of Northern Nevada, the Las Vegas Global Economic Alliance, the DRI Research Parks LLC, the University Corporation for Atmospheric Research (UCAR) Advocacy for the Science Community Board, among others. She also serves on the Nevada Governor's Office of Science, Innovation and Technology's STEM Advisory Council.



Jay Cordeira

Dr. Jay Cordeira has a B.S. in Meteorology from Plymouth State University (New Hampshire) and an M.S. and Ph.D. in Atmospheric Science from the University at Albany (New York). After graduate school, Jay participated in a post-doc sponsored by the National Academies of Science at the NOAA/ESRL Physical Sciences Division Water Cycle Branch in Boulder, Colorado and later moved to San Diego, California as a research meteorologist for a weather software company named EarthRisk Technologies. In 2013, Jay returned to Plymouth State to join the faculty and is now an Associate Professor of Meteorology. Jay advises both undergraduate and graduate (M.S.) students in externally funded, collaborative, and interdisciplinary projects year-round focusing on fundamental research and practical applications in areas of hydrometeorology, high-impact weather, and visualizations of numerical weather prediction data.



Sonia Kreidenweis

Dr. Sonia M. Kreidenweis joined CSU in 1991 to initiate a new program in Atmospheric Chemistry in the Department of Atmospheric Science that has since grown to five faculty members. Her primary research theme is the study of the physics, chemistry, and optics of atmospheric particulate matter, and in particular, the nucleation and growth of liquid water and ice by atmospheric aerosols. With the Visibility Group of the National Park Service, she participated in the design and execution of a number of special studies aimed at improved understanding of the links between particle size, composition, water uptake, and light extinction. She has also worked extensively in the study of emissions from open biomass burning, and their impacts on warm and cold clouds. She has served on several NAS/NRC Committees, most recently the Decadal Survey Panel on Climate Variability and Change: Seasonal to Centennial. She is an author or coauthor of more than 200 peer-reviewed publications, and has an H-Index of 60 with over 10,000 citations (Web of Science). Kreidenweis is a past President and Fellow of the American Association for Aerosol Research, and a past member of the Executive Committee and a Fellow of the American Meteorological Society. She was named a CSU University Distinguished Professor in 2014.

Gina Eosco

Dr. Gina Eosco is a social scientist and risk communication expert with Cherokee Nation Strategic Programs supporting NOAA's Office of Weather and Air Quality as a social science program coordinator. Her focus is on prioritizing social and behavioral science (SBS) research needs within the weather community, determining ways to translate social science research into application, and learning from operational meteorologists and practitioners to understand the next research challenge. She is an active member of both the American Meteorological Society, as well as the National Weather Association. She is also the 2019 recipient of the AMS Award for Early Career Professional Achievement. Dr. Eosco earned her M.S. and PhD in weather risk communication from Cornell University, and a B.S. in Environmental Science and Policy from the University of Maryland.



Tim Canty

Tim Canty is an associate research professor in the Department of Atmospheric & Oceanic Science at the University of Maryland, College Park where he also serves as director of the department's undergraduate and professional master's degree programs. He received his PhD in Physics from the New Mexico Institute of Mining and Technology in 2002. Before coming to Maryland in 2007 he was a Caltech post-doctoral scholar at NASA's Jet Propulsion Laboratory and a lecturer in the Department of Atmospheric and Oceanic Sciences at UCLA.

His research focuses on air quality science and policy, stratospheric ozone, and climate change. Dr. Canty uses observations from satellites, balloons, aircraft and ground based instruments combined with various physical and chemical modeling platforms to improve our understanding of atmospheric composition. Since 2010, he has provided air quality modeling support and multi-platform

data analysis to the Maryland Department of the Environment and other Ozone Transport Commission (OTC) states.
Richard D. Clark
Richard D. Clark Richard D. Clark is the Chair of the Department of Earth Sciences and Professor of Meteorology at Millersville University of Pennsylvania where he has been for 31 years. His research interests are boundary layers and turbulence and air chemistry with a special emphasis on field observations using remote-sensing and balloon-borne platforms. He also has a strong interest in space weather and climate science applications, and recently spearheaded the development of an academic minor in Heliophysics and Space Weather. Clark developed the framework and curriculum for the M.S. in Integrated Scientific Applications, which includes specializations in Climate Science Applications, Weather Intelligence and Risk Management, Environmental Earth Systems Management, and Geoinformatics, and serves as the program coordinator. He is also spearheading the development of a new program, a graduate Certification in Space Weather Communication. Clark has a Ph.D. in atmospheric science from the University of Wyoming ('87) with a specialization in boundary layers and turbulence, low-level nocturnal jets, and air chemistry. He was elected Fellow of the American Meteorological Society (AMS), and member of the American Geophysical Union (AGU), American Association for the Advancement of Science (AAAS), and Sigma Xi. Clark served as a member of AMS Council (2008-11) and completed two terms as a member of the Board of Trustees (2009-2015) of the University Corporation for Atmospheric Research (UCAR) where he served on multiple governance committees. He was the recipient of the 2006 Russell L. DeSouza Award for Outstanding Contributions to the Unidata Community and the 2008 AMS Teaching Excellence Award. In 2016 he was appointed to the newly formed UCAR Advocacy for the Science Community (UASC) committee and in 2017 became co-chair. Clark has been awarded over 53.5M in extramural funding since 2005 and has involved over 150 undergraduate students in field research through this funding. Recent projects include a NASA funde
Board of Directors for the Lancaster County Partnership for Public Health.



Larry Brazil

Dr. Brazil's career in water management began with a B.S. degree from MIT and M.S. and PhD degrees from Colorado State University in Civil Engineering/Water Resources and has included technical assistance in forecasting water availability in more than 30 countries for operational purposes such as water supply and hydropower production. Applications of his work have included use of hydrometeorological forecast information for flood mapping, and emergency response preparedness. He is currently the Vice President of the Water Resources Management Division within RTI International, where he provides division direction for the planning, development, implementation, and operations of technical expertise for water resources management. Prior to joining RTI, Larry most notably spent 28 years at Riverside Technology, inc. as President and CEO, 11 years as a Research Hydrologist at the National Weather Service developing components of real-time hydrometeorological forecast systems, and became an AMS Fellow in 2015.

Alexander E. (Sandy) MacDonald

Dr. Alexander E. (Sandy) MacDonald retired from over 40 years of federal service in the National Oceanic and Atmospheric Administration, on January 3, 2016. He was a Senior Executive since 1990 and President of the American Meteorological Society in 2015. He retired after 10 years as Director of NOAA's largest research laboratory, the Earth System Research Lab in Boulder, Colorado. He was Chief Science Advisor for NOAA's research line, and it Deputy Assistant Administrator from 2006 to 2012. He was Director of NOAA's Science On a Sphere, an educational exhibit now in over 130 museums worldwide. He worked with Vice President Al Gore to start the GLOBE Program in 1994. He is the recipient of four Presidential Rank Awards.

Dr. MacDonald recently published (January 25, 2016) an article in Nature Climate Change, titled "Future cost-competitive electricity systems and their impact on US CO2 emissions" that was ranked in the 99th percentile of impact by Altimetric. The article presents results that show the US could reduce its carbon dioxide emissions by up to 80% by 2030, by implementing a High Voltage Direct Current transmission network. The article presents a solution to greenhouse gas emissions that could be implemented now with existing technology, and would be also be feasible in other major economies such as Europe, China and India.

On April 4, 2016 he joined Spire Global, where he is leading a group that is developing global weather models and advanced energy solutions.



Renée Leduc Clarke

Renée Leduc Clarke is the Founder and Principal of Narayan Strategy. She brings nearly 20 years of experience in government and the private sector to her work helping clients connect with their key audiences on highly technical topics – across sectors, governments, cultures and political party lines.

Renée's career has spanned sectors, environments and time zones – giving her a unique niche to help your business cut through the details and the jargon to connect with the most important decision makers to advance your business. Renée is comfortable working with you in numerous environments – from Capitol Hill in Washington, DC, to a project site in rural Kenya, to an international meeting in Bangkok – and anywhere in between.

Renée's experience using space technology to build understanding of environmental issues began nearly 20 years ago in Botswana when she worked with rural leaders to use Landsat satellite data to track land changes due to large elephant herds. Her passion for science and technology as tools to advance sustainable development later grew as a Fulbright research scholar working on climate adaptation projects in Malawi and Zimbabwe.

Renée's focus on climate and weather began in earnest as a Presidential Management Fellow in the U.S. National Oceanic and Atmospheric Administration (NOAA), where she worked to make NOAA satellite information more accessible to policy makers in developing countries.

She later served as an advisor to two NOAA administrators on the agency's satellite programs. She built a stellar reputation for her clarity in communicating complex issues in partnership with industry, NASA, the Department of Defense, Congress and the White House.

Since 2011 Renée has been managing projects and leading government affairs activities in the private sector. Most recently she led a major component of the NASA-USAID SERVIR Project, leading the effort through a major period of transition in collaboration with partners in Kenya, Nepal and Panama.

Renée is an active member of the American Meteorological Society, serving as the incoming chair of its International Committee on Weather and Climate Strategies and on its Boards on Global Strategies and Enterprise Economic Development. She is an Advisory Council Member to the Millersville University Department of Earth Sciences and a member of the Bates College Alumni Council.

She completed her undergraduate studies at Bates College and her Masters of Public Policy at American University. In her spare time, she enjoys teaching kundalini yoga.

Ryan May Ryan May is a software engineer at Unidata, part of the University Corporation for Atmospheric Research (UCAR) Community Programs, working on Python software and training for the atmospheric science community. Ryan began his meteorology career pursuing a B.S. in Meteorology at the University of Oklahoma in 1999. During this time, he worked as a student at the National Weather Service Radar Operations Center, igniting a passion for both radar meteorology and software development. Ryan's dual passions continued to drive his graduate studies in meteorology at the University of Oklahoma, where he completed his M.S. in 2005 and Ph.D. in 2014, focusing his research on the simulation of dual polarization radar signals. Starting in 2009 while completing his Ph.D., Ryan began working as a software engineer on visualization and data processing algorithms for weather radar data at Enterprise Electronics Corporation. In 2014, Ryan started at Unidata, exchanging working on radar meteorology for working on tools for meteorology in Python. Currently, he is the Python team lead at Unidata and core developer of the MetPy and Siphon Python packages, as well as a member of the development team for the matplotlib Python visualization library.
 Pete Prokrandt Pete Pokrandt has been the computer systems administrator for the Atmospheric and Oceanic Sciences Department at UW-Madison since 1995. He received a B.S. in Meteorology in 1988, and an M.S. in Atmospheric Science in 1992, investigating Polar Low dynamics - both from the University of Wisconsin – Madison. He spent the following three years as an assistant researcher at UW-Madison performing a numerical modeling study of the December 15, 1987 mesoscale gravity wave case. With nearly 30 years of Linux/Unix experience, Mr. Pokrandt manages all aspects of the computing infrastructure at UW-AOS, including hardware acquisition, setup and diagnosis, software installation and education, data storage, archival and use, security, and other support services for faculty, staff and students. Mr. Pokrandt is fluent in FORTRAN, HTML and linux shell scripting, and knows enough C, perl, javascript and python to be dangerous. He teaches a short introduction to Linux/Unix each year for the incoming Junior class and new graduate students. He served on the Unidata Users Committee from 2015 – 2018, and is familiar with most of the software developed and available there, including the ldm, netCDF, GEMPAK, AWIPS and metpy/siphon.



Mike Coniglio

Growing up near Buffalo, NY, I was fascinated by lake-effect snowstorms, but more than anything, the scientific storm chasing efforts at NSSL in the 1970s and 80s got me hooked on meteorology. I wanted to understand why thunderstorms in western New York were so mild compared to those on the plain. I got my B.S. in meteorology from the State University of New York College at Oswego, my M.S. in meteorology from the University of Oklahoma (OU) in 1999, and my Ph.D. from OU in 2004. Advised by Dr. David Stensrud at the National Severe Storms Laboratory (NSSL), I studied the environments of derechos -- long-lived mesoscale convective systems (MCS) that produce widespread wind damage -- and the processes that contribute to their longevity. After my Ph.D. I stayed at NSSL as a National Research Council post-doc and developed tools to forecast the longevity of severe, cold-pool driven MCSs. I became a Federal Scientist at NSSL in 2008 and continue in that capacity today. I conduct research through the use of numerical weather prediction models, diagnostic studies, and well-focused field projects to improve hazardous weather forecasting. My research has broadened into topics other than MCSs, most recently involving the analysis of supercell and tornado environments and the data assimilation of in situ and remotely-sensed data to improve high-resolution numerical model forecasts of convection of all types. My direct experience in field programs includes BAMEX, VORTEX2, DC3, MPEX, and PECAN (and other smaller efforts internal to NSSL). I also began working operational forecasting shifts at the Storm Prediction Center in 2014 as a Mesoscale Assistant forecaster, issuing Mesoscale Discussions and thunderstorm outlooks.



Jessica C. Whitehead

Jessica Whitehead is the coastal communities hazards adaptation specialist for North Carolina Sea Grant. She assists coastal users with integrating information about coastal weather and climate hazards into their decision-making processes.

As a co-creator of the Vulnerability, Consequences and Adaptation Planning Scenarios (VCAPS) process, Whitehead has facilitated participatory diagramming exercises for stakeholders. So far, this process has helped over 20 communities throughout the United States develop adaptation options to increase community resilience.

Whitehead's recent projects have included exploring the intersection of water, wastewater and public health risks of storms in Morehead City, NC. She also partners with the Town of Nags Head in developing implementation priorities to make public infrastructure and resources more resilient to sea level rise over the next 10 to 30 years. Finally, she is assisting with the development of public-private partnerships to improve risk communication and disaster recovery on Hatteras Island and throughout North Carolina as the state recovers from Hurricane Florence.

She is a member of the Independent Advisory Committee on Applied Climate, which is developing recommendations on how to bring local and state governments and business perspectives to the process of identifying,









	She currently lives in Denver, Colorado with her husband, Steve, who is also a broadcast meteorologist. They enjoy hiking and being outdoors. Kerrin has an interest in all earth sciences, and is passionate about science literacy, careers in STEM, weather/weather safety, and climate through education and communication.
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