

STUDENT PRESENTATION AWARDS

A number of conferences present awards recognizing outstanding student contributions to the atmospheric, oceanic, and related sciences. Listed here are students who received awards for their oral or poster presentations given at the 99th AMS Annual Meeting, 22–26 January 2019 in Phoenix, Arizona.

The AMS extends its congratulations to the students honored below and wishes them success in their careers.

33rd Conference on Hydrology

Student Oral Presentations

Justin M. Pflug University of Washington	1st Place	An Investigation of Liquid Water Percolation and Model Transferability in Multiple Snow Climates
Natalie Teale Rutgers, The State University of New Jersey	2nd Place	Climatology of Water Vapor Fluxes and Precipitation in the Northeastern United States

Student Poster Presentations

Kristen M. Whitney Arizona State University	1st Place	Modeling Hydrological Extremes in the Colorado River Basin at Various Watershed Scales
Sean Matus University of Illinois at Urbana–Champaign	2nd Place	Using Ensemble Precipitation Forcing to Communicate the Uncertainty of Hydrologic Event Occurrence at River Infrastructure

32nd Conference on Climate Variability and Change

Outstanding Oral Presentations

Christina Aragon Portland State University	Large-Scale Meteorological Patterns Associated with Precipitation Extremes over Portland, Oregon, in Climate Models
Pak-Wah Chan Harvard University	Evaluating Indices of Blocking Anticyclones in Terms of Their Relations with Surface Hot Extremes
Joseph P. Clark The Pennsylvania State University	On the Role of Horizontal Temperature Advection for the Interdecadal Arctic Warming Trend
Alexander Lemburg Max Planck Institute for Meteorology	Sahel Rainfall–Tropical Easterly Jet Interaction on Intraseasonal Time Scales with a Focus on the Role of Jet-Induced Upper-Level Divergence for Mesoscale Convective Systems
Allison C. Michaelis North Carolina State University	Climate Change Effects on the Extratropical Transition of Tropical Cyclones in High-Resolution Global Simulations Using the Model for Prediction Across Scales (MPAS)
Jamin K. Rader University of Washington	Diurnal Temperature Variability: An Observations–Climate Model Intercomparison
Dor Sandler Tel Aviv University	Understanding Future Climate Trends of Northern Hemisphere Meridional Winds through the Lens of Subseasonal Teleconnections
Tianyi Sun The University of Texas at Austin	Impact of Stochastically Forced Tropical Pacific Decadal Variability on the El Niño–Southern Oscillation
Benjamin A. Toms Colorado State University	Quantifying the Dependence of the Global Response to the Madden–Julian Oscillation on the Quasi-Biennial Oscillation

*Outstanding Poster Presentations***Savanna Wolvin**

National Science Foundation

Using Clustering to Evaluate the CESM1 Large Ensemble's Ability to Simulate Regional Variations in Heat Waves

Xiao Yu

Texas A&M University

Studying the Impact of Oceanic Barrier Layer on Hurricane Activity over the Amazon-Orinoco Plume Region Using the Community Regional Earth System Model

23rd Conference on Integrated Observing and Assimilation Systems for the Atmosphere, Oceans, and Land Surface*Best Student Presentations***Shay Gilpin**

UCAR

University of Colorado Boulder

Reducing Representativeness Errors during Radio Occultation–Radiosonde Comparisons

Bo Huang

University of Oklahoma

Impact of Scale-Dependent Localization with and without Cross-Band Correlation on Hurricane Track Forecasts in the FV3GFS 4DEnVar System

21st Conference on Atmospheric Chemistry*Outstanding Student Paper Awards***Colleen B. Baublitz**Lamont-Doherty Earth Observatory
Columbia University

Developing Observable Proxies to Infer Hydroxyl Radical Spatiotemporal Variability

Colleen B. BaublitzLamont-Doherty Earth Observatory
Columbia University

The Sensitivity of Southeast U.S. Ozone Abundance and Production to Dry Deposition

William Lassman

Colorado State University

Methods of Estimating Deposition Using Atmospheric Concentration Measurements: Using Synthetic Observations Downwind of a CAFO to Quantify Ammonia Deposition

Jakob Lindaas

Colorado State University

What Controls the Ratio of Primary Reduced and Oxidized Forms of Gas Phase Reactive Nitrogen in Young Wildfire Smoke?

Qiaoyun Peng

University of Washington

In Situ Measurements and Evaluation of Primary Radical Budgets within Wildfire Plumes during WE-CAN

Eli Rafael Pérez Ruiz

Arizona State University

Urban Land Cover Type Influences CO₂ Fluxes within Phoenix, Arizona**Zhen Qu**

University of Colorado Boulder

Long-Term (2005–2017) Global SO₂ Emissions Derived from Two OMI SO₂ Retrievals: Discrepancy Analysis and Validations

20th Conference on Middle Atmosphere

Outstanding Presentations

Wanying Kang Harvard University	More Frequent Sudden Stratospheric Warming Events due to a Stronger Madden–Julian Expected in a Warmer Climate: Role of Midlatitude Tropospheric Jet
Zachary M. Labe University of California, Irvine	Linking the Quasi-Biennial Oscillation and Projected Arctic Sea-Ice Loss to Stratospheric Variability in Early Winter
Ekaterina Lezine University of North Carolina at Chapel Hill	Characterizing Error due to Non-Uniform Spatial and Temporal Sampling in the SWOOSH Merged Data Set and Implications for Understanding Long-Term Ozone and WV Variability
Zane K Martin Columbia University	Modeling the MJO–QBO Relationship in a Reforecast Model
Jessica Oehrlein Columbia University	Separating and Quantifying the Distinct Impacts of El Niño and Stratospheric Sudden Warmings on North Atlantic and Eurasian Wintertime Climate
Leong Wai Siu Texas A&M University	Origin of the Upper-Tropospheric North American Monsoon Anticyclone

19th Conference on Aviation, Range, and Aerospace Meteorology

Student Presenter Award—Oral

Elizabeth Venteicher Valparaiso University	Verifying the Impact of the FV3-GFS Upgrade on LAMP Statistical Guidance
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18th Annual AMS Student Conference

Outstanding Student Conference Poster Awards—Graduate

Mary Ruth Brown East Carolina University	WRF Simulations of the Onset of the 2009 Convective Season in the Southeastern United States
Stefan Rahimi University of Wyoming	Snow Darkening Effects of Black Carbon and Dust across the Rocky Mountains of the Western United States: Experiments using WRF-Chem

Outstanding Student Conference Poster Awards—Undergraduate

Julie Cunningham Plymouth State University	Freezing Levels and Atmospheric Rivers over the California Feather River Watershed
Harold Gamarro City College of New York	Evaluating Urban WRF-Solar for Photovoltaic Power Forecasts in New York City
Jonathan E. Thielen Iowa State University	A Comparison of Machine Learning Techniques for Convective Morphology Classification from Radar Imagery
James White The Ohio State University	Tundra Fires in Alaska: A Weather Perspective

18th Conference on Artificial and Computational Intelligence and Its Applications to the Environmental Sciences

Student Presenter Awards

Eric D. Loken CIMMS/University of Oklahoma	1st Place	Postprocessing HREFv2 Heavy Rainfall Forecasts Using Machine Learning
Andrew Geiss University of Washington	2nd Place	Radar Super-Resolution Using a Deep Convolutional Neural Network
Benjamin A. Toms Colorado State University	3rd Place	Climate Science, Deep Learning, and Pattern Discovery: The Madden-Julian Oscillation as a Test Case
Ryan A. Lagerquist CIMMS	Honorable Mention	Development and Interpretation of Deep Learning Models for Nowcasting Convective Hazards

16th Conference on Space Weather

Best Student Oral Award

Amin Taziny Binghamton University, State University of New York	1st Place	Analysis of Short-Term Ionospheric Variability Using WACCM-X
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Best Student Poster Award

Kelsey Doerksen University of Western Ontario Observatoire de Paris	1st Place	A Statistical Analysis of Density Perturbations in Relation to Solar X-Flare Events Isolated from Coronal Mass Ejections
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15th Annual Symposium on New Generation Operational Environmental Satellite Systems

Best Student Poster Presentation

Kelcy N. Brunner University of Alabama in Huntsville	1st Place	Applications of a Lightning Energy Metric Using Satellite Instrumentation and Monte Carlo Simulations
Dillon V. Blount University of South Alabama	Honorable Mention	Observing Hail Swaths Using the GOES-16 Advanced Baseline Imager. Part I: Methodology
William A. Hanson Air Force Institute of Technology	Honorable Mention	Analysis of the Gálvez-Davison Index for Convective Forecasts in Africa Using the GALWEM
Sebastian S. Harkema NASA University of Alabama in Huntsville	Honorable Mention	Statistical Analysis of the Existence of Thundersnow and Snow-to-Liquid Ratios

14th Symposium on Societal Applications: Policy, Research and Practice

Best Student Oral Presentation

Nazli Uludere Aragon Arizona State University	1st Place	Growing Resilience: The Urban Agriculture Potential in Metro Phoenix
Robert Prestley University of Kentucky	2nd Place	Strategic Tactics and Language Features Used by Broadcast Meteorologists during Hurricane Harvey to Describe Threat and Build Resilience
Saleh Ahmed Climate Assessment for the Southwest University of Arizona	3rd Place	Climate Services for Livelihood Resilience in Coastal Bangladesh: Bridging the Gaps between Science, Society, and Policy through Institutional Innovations

Best Student Poster Presentation

Mary Noel University of Nebraska–Lincoln	1st Place	Developing a Framework of Multisector Drought Impacts State By State
Wesley W. Wehde University of Oklahoma	2nd Place	How Can You Trust What You Don't Use?: Measuring Patterns of Individual's Weather Information Source Reliance and Trust

Student Presenter Award

Anas A. Askar Howard University	Honorable Mention	Understanding the Public's Response to Uncertainty through an Interdisciplinary Analysis
Rachael N. Cross University of Oklahoma	Honorable Mention	When Uncertainty Is Certain: The Creation and Effects of Amiable Distrust between Emergency Managers and Forecast Information in the Southeastern United States
Victoria A. Johnson University of Oklahoma	Honorable Mention	Place Attachment, Climatology, and Tornado Risk Perception in Central Oklahoma
Joseph E. Trujillo Texas A&M University	Honorable Mention	Rhetoric and Climate Science: Organizational Influence on Public Policy Related to Hurricane Harvey
Ayesha Wilkinson NCAS, Howard University	Honorable Mention	Surveying the TCM with NWS Partners

11th Symposium on Aerosol–Cloud–Climate Interactions

Best Student Oral Presentation

Nadia Kathryn Colombi NOAA	Diverse Springtime Variability in Ice Nucleating Particle Properties and Sources in an Alaskan Arctic Oil-Field Location
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Best Student Poster Presentations

Xiaojian Zheng University of Arizona	Low-Level Cloud Microphysical Properties under Different Air Masses at the ARM SGP site
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Outstanding Student Presentation Award

Lauriana C. Gaudet University at Albany, State University of New York	Sensitivity of Lake-Effect Cloud Microphysical Processes to Ice Crystal Habit and Nucleation during OWLeS IOP4
Alice Hsu Washington University	Vertical Distribution and Monthly Variations of Biomass Burning Aerosols as Observed by the Micropulse Lidar during LASIC
Ruby J Nelson University of Massachusetts Amherst	The Efficiency of Ice Nucleating Particle Release through Sea Spray Aerosols and Various Bubble Sizes
Laura M. Tomkins University of Kansas	WRF Simulations of Episodes of Stratocumulus Clearing over the Southeast Atlantic

10th Conference on Weather, Climate, and the New Energy Economy

Best Poster Presentation

Jacob Coburn University of Minnesota, Twin Cities	Assessing Wind Representation in Reanalyses and Methods of Extrapolation to Hub Height for the Upper Midwest
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Best Student Oral Presentation

Aleks Siemenn University at Albany, State University of New York	1st Place	Geospatial Energy Potential and Life Cycle Assessment of Nearshore Oscillating Water Column Systems along the Eastern Coast of New England, United States
David Abel University of Wisconsin–Madison	2nd Place	Integrating Atmospheric Modeling and Energy Modeling to Quantify the Air Quality and Mitigation Impacts of Clean Energy Strategies in the United States
Travis M. Harty University of Arizona	3rd Place	Forecasting Cloud Index with an Advection Model and Data Assimilation

Best Student Poster Presentation

Rachel Cucinotta University of North Carolina at Chapel Hill	Honorable Mention	Diagnosing the Potential for Thunderstorm-Induced Power Outages with the Rapid Refresh Model
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10th Conference on Environment and Health

Student Presenter Award—Oral

Maggie Li University of California, Berkeley	Impacts of Air Quality on Asthma Outcomes across Senegal
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Student Presenter Award—Poster

Timothy J. Cady University of Kansas	Using Numerical Simulations to Assess Urban Heat Island Mitigation by Converting Vacant Areas into Green Spaces
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Ninth Conference on Transition of Research to Operations

Best Student Oral Presentation

Timothy Andrew Henderson State Climate Office of North Carolina	1st Place	Soil Moisture and Temperature Response Differences in Bare Soil and Perennial Grasses, Central North Carolina, USA
Kira Ann Hart University of Arizona	2nd Place	LWIR Spectro-Polarimeter for Cloud-Induced Polarization Measurements
Morgan E. Schneider University of Oklahoma NESDIS	Honorable Mention	Modeling the 3-D Geomagnetic Field Using Satellite Scalar Field Observations
Montgomery L. Flora University of Oklahoma, CIMMS, NSSL/NOAA	Honorable Mention	Neighborhood Verification of 1-h Probabilistic Low-Level Rotation Forecasts from the NSSL Experimental Warn-on-Forecast System

Seventh Symposium on Prediction of the Madden-Julian Oscillation and Sub-Seasonal Monsoon Variability

Student Presenter Award—Oral

Kelly Marie Nunez Ocasio The Pennsylvania State University	African Easterly Wave–Mesoscale Convective Coupled Systems That Are Potential Candidates for Tropical Cyclogenesis
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Student Presenter Award—Poster

Hing Ong University at Albany, State University of New York	Scaling for the Nontraditional Coriolis Term in Diabatic-Forced Dynamics
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Phased Array Radar Symposium

Best Student Poster Presentations

Casey B. Griffin University of Oklahoma	High-Temporal-Resolution Observations of Weak-Echo Reflectivity Bands and Momentum Surges in the 16 May 2017 Wheeler, Texas, Tornado
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