

Brian Hong-An Tang

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Education

- 9/2010 **Ph.D. Atmospheric Science**
Massachusetts Institute of Technology
Dissertation: Midlevel ventilation's constraint on tropical cyclone intensity
Advisor: Dr. Kerry Emanuel
- 6/2004 **B.S. Atmospheric & Oceanic Sciences**
B.S. Applied Mathematics with a specialization in Computing
University of California, Los Angeles

Educational Employment

- 9/2019 – present **Associate Professor**
University at Albany - State University of New York, Albany, NY
- 9/2012 – 8/2019 **Assistant Professor**
University at Albany - State University of New York, Albany, NY
- 9/2010 – 8/2012 **Joanne and Bob Simpson Postdoctoral Fellow**
National Center for Atmospheric Research, Boulder, CO
Postdoctoral mentor: Dr. Chris Davis

Honors & Awards

- 5/2023 2022 Outstanding Reviewer for *Geophysical Research Letters*
- 4/2014 Top faculty/staff forecaster in the 2013–2014 WxChallenge forecast competition
- 4/2013 Top faculty/staff forecaster in the 2012–2013 WxChallenge forecast competition
- 4/2008 Max A. Eaton Prize
Top graduate forecaster in the 2007–2008 WxChallenge forecast competition
- 5/2007 MIT EAPS Graduate Student Teaching Award
Top overall forecaster in the 2006–2007 WxChallenge forecast competition
- 6/2004 Office of Naval Research Graduate Fellowship

Publications (refereed)

I. Submitted or In Revision

- Rios-Berrios, R., Tang, B. H., Davis, C., & Martinez, J. (2024). Modulation of tropical cyclogenesis by convectively coupled Kelvin waves. *Mon. Wea. Rev.* submitted.
- Tang, B. H. (2024). Tropical cyclones and hurricanes. In J. Martin (Ed.), *Encyclopedia of Atmospheric Sciences (Third Edition)* (submitted). Academic Press.
- Tang, B. H., Rios-Berrios, R., & Zhang, J. (2024). Diagnosing radial ventilation in dropsonde observations of Hurricane Sam (2021). *Mon. Wea. Rev.* submitted.

Yu, C.-L., Tang, B. H., & Fovell, R. G. (2024). Tropical cyclone boundary-layer asymmetries in a tilt-following perspective. *J. Atmos. Sci.* submitted.

II. Published

- Fischer, M. S., Reasor, P. D., Tang, B. H., Corbosiero, K. L., Torn, R. D., & Chen, X. (2023). A tale of two vortex evolutions: Using a high-resolution ensemble to assess the impacts of ventilation on a tropical cyclone rapid intensification event. *Mon. Wea. Rev.* *151*, 297–320. doi:10.1175/MWR-D-22-0037.1
- Li, Q., Wadler, J. B., Rudzin, J. E., Jaimes de la Cruz, B., Chen, J., Fischer, M., ... Tang, B. H. (2023, September). A review of recent research progress on the effect of external influences on tropical cyclone intensity change. *Tropical Cyclone Res. Rev.* *12*, 200–215. doi:10.1016/j.tcrr.2023.09.001
- Rivera-Torres, N. G., Corbosiero, K. L., & Tang, B. H. (2023). Factors associated with the downshear reformation of tropical cyclones. *Mon. Wea. Rev.* *151*, 2717–2737. doi:10.1175/MWR-D-22-0251.1
- Yu, C.-L., Tang, B. H., & Fovell, R. G. (2023). Diverging behaviors of simulated tropical cyclones in moderate vertical wind shear. *J. Atmos. Sci.* *80*, 2837–2860. doi:10.1175/JAS-D-23-0048.1
- Yu, C.-L., Tang, B. H., & Fovell, R. G. (2023). Tropical cyclone tilt and precession in moderate shear: Precession hiatus in a critical shear regime. *J. Atmos. Sci.* *80*, 909–932. doi:10.1175/JAS-D-22-0200.1
- Richardson, J. C., Torn, R. D., & Tang, B. H. (2022). An analog comparison between rapidly and slowly intensifying tropical cyclones. *Mon. Wea. Rev.* *150*, 2139–2156. doi:10.1175/MWR-D-21-0260.1
- Alland, J. J., Tang, B. H., Corbosiero, K. L., & Bryan, G. H. (2021). Combined effects of midlevel dry air and vertical wind shear on tropical cyclone development. Part I: Downdraft ventilation. *J. Atmos. Sci.* *78*, 763–782. doi:10.1175/JAS-D-20-0054.1
- Alland, J. J., Tang, B. H., Corbosiero, K. L., & Bryan, G. H. (2021). Combined effects of midlevel dry air and vertical wind shear on tropical cyclone development. Part II: Radial ventilation. *J. Atmos. Sci.* *78*, 783–796. doi:10.1175/JAS-D-20-0055.1
- LeBel, L. J., Tang, B. H., & Lazear, R. A. (2021). Examining terrain effects on an Upstate New York tornado event utilizing a high-resolution model simulation. *Wea. Forecasting*, *36*, 2001–2020. doi:10.1175/WAF-D-21-0018.1
- Tang, B. H., Fang, J., Bentley, A., Kilroy, G., Nakano, M., Park, M.-S., ... Wu, L. (2020). Recent advances in research on tropical cyclogenesis. *Tropical Cyclone Res. Rev.* *9*, 87–105. doi:https://doi.org/10.1016/j.tcrr.2020.04.004
- Fischer, M. S., Tang, B. H., & Corbosiero, K. L. (2019). A climatological analysis of tropical cyclone rapid intensification in environments of upper-tropospheric troughs. *Mon. Wea. Rev.* *147*, 3693–3719. doi:10.1175/MWR-D-19-0013.1
- Tang, B. H., Gensini, V. A., & Homeyer, C. R. (2019). Trends in United States large hail environments and observations. *npj Climate Atmos. Sci.* *2*, 1–7. doi:10.1038/s41612-019-0103-7
- Fischer, M. S., Tang, B. H., Corbosiero, K. L., & Rozoff, C. M. (2018). Normalized convective characteristics of tropical cyclone rapid intensification events in the North Atlantic and eastern North Pacific. *Mon. Wea. Rev.* *146*, 1133–1155. doi:10.1175/MWR-D-17-0239.1
- Tang, B. H. & Bassill, N. P. (2018). Point downscaling of surface wind speed for forecast applications. *J. Appl. Meteor. Climatol.* *57*, 659–674. doi:10.1175/JAMC-D-17-0144.1

- Alland, J. J., Tang, B. H., & Corbosiero, K. L. (2017). Effects of midlevel dry air on development of the axisymmetric tropical cyclone secondary circulation. *J. Atmos. Sci.* *74*, 1455–1470. doi:10.1175/JAS-D-16-0271.1
- Fischer, M. S., Tang, B. H., & Corbosiero, K. L. (2017). Assessing the influence of upper-tropospheric troughs on tropical cyclone intensification rates after genesis. *Mon. Wea. Rev.* *145*, 1295–1313. doi:10.1175/MWR-D-16-0275.1
- Tang, B. H. (2017). Coupled dynamic–thermodynamic forcings during tropical cyclogenesis. Part I: Diagnostic framework. *J. Atmos. Sci.* *74*, 2269–2278. doi:10.1175/JAS-D-17-0048.1
- Tang, B. H. (2017). Coupled dynamic–thermodynamic forcings during tropical cyclogenesis. Part II: Axisymmetric experiments. *J. Atmos. Sci.* *74*, 2279–2291. doi:10.1175/JAS-D-17-0049.1
- Vaughan, M. T., Tang, B. H., & Bosart, L. F. (2017). Climatology and analysis of high-impact, low predictive skill severe weather events in the northeast United States. *Wea. Forecasting*, *32*, 1903–1919. doi:10.1175/WAF-D-17-0044.1
- Peirano, C. M., Corbosiero, K. L., & Tang, B. H. (2016). Revisiting trough interactions and tropical cyclone intensity change. *Geophys. Res. Lett.* *43*, 2016GL069040. doi:10.1002/2016GL069040
- Tang, B. H., Rios-Berrios, R., Alland, J. J., Berman, J. D., & Corbosiero, K. L. (2016). Sensitivity of axisymmetric tropical cyclone spinup time to dry air aloft. *J. Atmos. Sci.* *73*, 4269–4287. doi:10.1175/JAS-D-16-0068.1
- Tang, B. H., Vaughan, M., Lazear, R., Corbosiero, K., Bosart, L., Wasula, T., ... Lipton, K. (2016). Topographic and boundary influences on the 22 May 2014 Duanesburg, New York, tornadic supercell. *Wea. Forecasting*, *31*, 107–127. doi:10.1175/WAF-D-15-0101.1
- Tang, B. H. & Camargo, S. J. (2014). Environmental control of tropical cyclones in CMIP5: A ventilation perspective. *J. Adv. Model. Earth Syst.* *6*, 115–128. doi:10.1002/2013MS000294
- Rios-Berrios, R., Vukicevic, T., & Tang, B. H. (2013). Adopting model uncertainties for tropical cyclone intensity prediction. *Mon. Wea. Rev.* *142*, 72–78. doi:10.1175/MWR-D-13-00186.1
- Tang, B. H. & Emanuel, K. A. (2012). A ventilation index for tropical cyclones. *Bull. Amer. Meteor. Soc.* *93*, 1901–1912. doi:10.1175/BAMS-D-11-00165.1
- Tang, B. H. & Emanuel, K. A. (2012). Sensitivity of tropical cyclone intensity to ventilation in an axisymmetric model. *J. Atmos. Sci.* *69*, 2394–2413. doi:10.1175/JAS-D-11-0232.1
- Evans, C., Archambault, H. M., Cordeira, J. M., Fritz, C., Galarneau, T. J., Gjorgjievska, S., ... Thompson, S. (2011). 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. doi:10.1175/BAMS-D-11-00024.1
- Tang, B. H. & Emanuel, K. A. (2010). Midlevel ventilation’s constraint on tropical cyclone intensity. *J. Atmos. Sci.* *67*, 1817–1830. doi:10.1175/2010JAS3318.1
- Tang, B. H. & Neelin, J. D. (2004). ENSO Influence on Atlantic hurricanes via tropospheric warming. *Geophys. Res. Lett.* *31*, L24204. doi:10.1029/2004GL021072

Other Scholarly Activities

I. Fieldwork

4/2024 – 10/2024

NOAA Hurricane Field Program: Ventilation Module

Other Scholarly Activities (continued)

4/2023 – 8/2023 Investigation of Convective Environments in the Capital Region with Expanded Atmospheric Measurements (ICECREAM)

4/2022 – 10/2022 Joint NOAA-ONR Hurricane Field Program: Ventilation Module

II. Websites Developed

Tropical Cyclone Guidance (<http://www.atmos.albany.edu/facstaff/btang/tcguidance/>)

WxChallenge Model Output (<http://www.atmos.albany.edu/facstaff/btang/forecast/>)

Presentations (as presenting author)

I. Invited Talks

Tang, B. H., Yu, C.-L., Richardson, J. C., Johnson, N., & Fovell, R. G. (2023). Diverging behaviors of tropical cyclones in moderate vertical wind shear. University of Maryland Atmospheric & Oceanic Science Seminar, College Park, MD.

Tang, B. H. (2022). Tropical cyclone forecasting tools. Forecast Contest Webinar Series, virtual.

Tang, B. H. (2022). Tropical cyclone ventilation. Tropical Cyclones, Convection, & Climate: A Symposium in Honor of Kerry Emanuel, Cambridge, MA.

Tang, B. H., Yu, C.-L., Richardson, J. C., Johnson, N., & Fovell, R. G. (2022). Diverging behaviors of tropical cyclones in moderate vertical wind shear. University of Wisconsin - Madison Atmospheric & Oceanic Sciences Colloquium, Madison, WI.

Tang, B. H., Peirano, C. M., & Corbosiero, K. L. (2020). Tropical cyclone-trough interactions. Pennsylvania State University, State College, PA.

Tang, B. H. (2019). Coupled dynamic-thermodynamic forcings during tropical cyclogenesis. Geophysical Fluid Dynamics Laboratory, Princeton, NJ.

Tang, B. H. (2018). Big whirls and little whirls. Hobart & William Smith Colleges, Geneva, NY.

Tang, B. H. (2018). Coupled dynamic-thermodynamic forcings during tropical cyclogenesis. New York University, New York City, NY.

Tang, B. H. (2017). Coupled dynamic-thermodynamic forcings during tropical cyclogenesis. McGill University, Montreal, QC, Canada.

Tang, B. H. (2016). Coupled dynamic-thermodynamic forcings during tropical cyclogenesis. Columbia University Lamont-Doherty Earth Observatory, Palisades, NY.

Tang, B. H. (2016). Gross moist stability constraints on tropical cyclogenesis. Yale University, New Haven, CT.

Tang, B. H., Klotzbach, P., & MacRitchie, K. (2014). The curiously quiet 2013 North Atlantic hurricane season. Stony Brook University, Stony Brook, NY.

Tang, B. H. (2013). Ventilation's constraint on tropical cyclones. New York University, New York City, NY.

Illari, L., Marshall, J., & Tang, B. H. (2009). Weather in a tank: Exploiting laboratory experiments in the teaching of meteorology, oceanography, and climate. Unidata Users Workshop, Boulder, CO.

Tang, B. H. & Emanuel, K. A. (2009). Midlevel ventilation's constraint on tropical cyclone intensity. Naval Research Laboratory, Monterey, CA.

II. Conference/Workshop Talks (since arriving at University at Albany)

- Tang, B. H., Rios-Berrios, R., & Zhang, J. (2024). Radial ventilation and the rapid intensity changes of Hurricane Sam (2021). 36th Conference on Hurricanes & Tropical Meteorology, Long Beach, CA.
- Tang, B. H., Eldridge, R., Lazear, R. A., & Fovell, R. G. (2023). Investigation of Convective Environments in the Capital Region with Expanded Atmospheric Measurements (ICECREAM) field project. 24th Northeast Regional Operational Workshop, Albany, NY.
- Tang, B. H., Rios-Berrios, R., & Zhang, J. (2023). Ventilation pathways in Hurricane Sam (2021). 103rd American Meteorological Society Annual Meeting, Denver, CO.
- Tang, B. H., Yu, C. L., & Fovell, R. G. (2022). Tropical cyclone tilt evolution in moderate shear: Disruption to precession resumption. 35th Conference on Hurricanes & Tropical Meteorology, New Orleans, LA.
- Tang, B. H., Peirano, C. M., & Corbosiero, K. L. (2021). Tropical cyclone-trough interactions: Idealized experiments and structure effects. 34th Conference on Hurricanes & Tropical Meteorology, Virtual.
- Tang, B. H., Gensini, V. A., & Homeyer, C. R. (2020). Trends in United States large hail frequency. 100th American Meteorological Society Annual Meeting, Boston, MA.
- Alland, J. J., Tang, B. H., & Corbosiero, K. L. (2019). Ventilation pathways in tropical cyclones: Sensitivity to vertical wind shear and relative humidity. 9th Northeast Tropical Meteorology Workshop, Dedham, MA.
- Flamholtz, W., Tang, B. H., & Bosart, L. F. (2019). Simulating the effects of terrain-induced perturbations on severe convection using an idealized valley. 20th Northeast Regional Operational Workshop, Albany, NY.
- Tang, B. H. (2018). Gross moist stability evolution during tropical cyclogenesis. 33rd Conference on Hurricanes & Tropical Meteorology, Ponte Vedra, FL.
- Tang, B. H. (2018). The intensity and evolving risk of damaging hailstorms in the U.S. 2018 North American Hail Workshop, Boulder, CO.
- Tang, B. H., Fang, J., Bentley, A., Kilroy, G., Nakano, M., Park, M.-S., ... Wu, L. (2018). Tropical cyclogenesis research. 9th International Workshop on Tropical Cyclones, Honolulu, HI.
- Eck, P., Tang, B. H., & Bosart, L. F. (2017). Total lightning and upslope flow as predictors of severe weather in the Northeast. 18th Northeast Regional Operational Workshop, Albany, NY.
- Tang, B. H. (2017). Gross moist stability evolution during tropical cyclogenesis. 18th Cyclone Workshop, Sainte Adele, QC, Canada.
- Tang, B. H. (2017). Tropical cyclone spin up dependence on the location of capped surface fluxes. 8th Northeast Tropical Meteorology Workshop, Rensselaerville, NY.
- Tang, B. H. (2016). A coupled moist entropy and angular momentum framework for tropical cyclogenesis investigations. 32nd Conference on Hurricanes & Tropical Meteorology, San Juan, PR.
- Tang, B. H., Alland, J. J., Rios-Berrios, R., Berman, J. D., & Corbosiero, K. L. (2015). Sensitivity of tropical cyclone spin-up time and size to the initial entropy deficit. 7th Northeast Tropical Meteorology Workshop, Dedham, MA.
- Tang, B. H., Alland, J. J., Rios-Berrios, R., Berman, J. D., & Corbosiero, K. L. (2015). Sensitivity of tropical cyclone spin-up time and size to the initial entropy deficit. 17th Cyclone Workshop, Pacific Grove, CA.

- Tang, B. H., Vaughan, M. T., Corbosiero, K. L., Lazear, R. A., & Bosart, L. F. (2015). The 22 May 2014 Duanesburg, New York, tornadic supercell. National Weather Service Binghamton Workshop, Binghamton, NY.
- Tang, B. H., Alland, J. J., Rios-Berrios, R., Berman, J. D., & Corbosiero, K. L. (2014). Sensitivity of tropical cyclone spin-up time to the initial entropy deficit. 2014 Amer. Geophys. Union Fall Meeting, San Francisco, CA.
- Tang, B. H. & Camargo, S. J. (2014). Environmental control of tropical cyclones in CMIP5: A ventilation perspective. 31st Conference on Hurricanes & Tropical Meteorology, San Diego, CA.
- Tang, B. H., Vaughan, M. T., Corbosiero, K. L., Lazear, R. A., & Bosart, L. F. (2014). An examination of the 22 May 2014 Duanesburg, New York, unexpected tornadic supercell. 27th Conference on Severe Local Storms, Madison, WI.
- Tang, B. H., Vaughan, M. T., Corbosiero, K. L., Lazear, R. A., & Bosart, L. F. (2014). An examination of the 22 May 2014 Duanesburg, New York, unexpected tornadic supercell. 15th Northeast Regional Operational Workshop, Albany, NY.
- Tang, B. H. (2013). Environmental control of tropical cyclones in GCMs: A ventilation perspective. 6th Northeast Tropical Meteorology Workshop, Rensselaerville, NY.
- Tang, B. H. (2013). Global view of the origin of tropical disturbances revisited. 93rd American Meteorological Society Annual Meeting, Austin, TX.
- Tang, B. H. & Rios-Berrios, R. (2013). Moist diagnostics in the axisymmetric spin up of tropical cyclones. 16th Cyclone Workshop, Sainte Adele, QC, Canada.

III. Conference/Workshop Posters (since arriving at University at Albany)

- Tang, B. H., Peirano, C. M., & Corbosiero, K. L. (2019). How does tropical cyclone size evolve during trough interactions? 19th Cyclone Workshop, Seon, Bavaria, Germany.
- Tang, B. H. (2018). Trends in environments conducive for large hail. 2018 North American Hail Workshop, Boulder, CO.
- Tang, B. H. (2018). Trends in environments conducive for large hail. 29th Conference on Severe Local Storms, Stowe, VT.
- Tang, B. H. (2016). A catalogue of extremely damaging hailstorms. 28th Conference on Severe Local Storms, Portland, OR.
- Tang, B. H. (2013). A real-time system for evaluating the ventilation of tropical cyclones. 93rd American Meteorological Society Annual Meeting, Austin, TX.

Teaching

I. Undergraduate Courses

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|---------|---|
| ATM 103 | Introduction to Climate Change (online)
Fall 2017, Spring 2019 |
| ATM 200 | Natural Disasters (online)
Fall 2020 |
| ATM 316 | Dynamic Meteorology I
Fall 2012, 2013, 2015, 2018, 2021 |
| ATM 413 | Weather, Climate Change, and Societal Impacts (new course)
Spring 2013–2018, 2020–2024 |

Teaching (continued)

II. Graduate Courses

ATM 500	Atmospheric Dynamics Fall 2022–2024
ATM 543	Weather, Climate Change, and Societal Impacts (shared-resource course with ATM 413) Spring 2021–2024
ATM 622	General Circulation of the Atmosphere Fall 2014, 2016, 2019

Advising or Supervising

I. Postdoctoral Researchers

Chau-Lam Yu	8/2020–8/2023, co-supervised with Dr. Robert Fovell
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II. Graduate Students

A. Graduated

Casey Peirano	Ph.D. 2019, co-advised with Dr. Kristen Corbosiero The influence of upper-tropospheric troughs on tropical cyclone intensity change and structure: Observational, reanalysis, and idealized numerical modeling perspectives
Josh Alland	Ph.D. 2019, co-advised with Dr. Kristen Corbosiero Synergistic effects of midlevel dry air and vertical wind shear on tropical cyclone development
Michael Fischer	Ph.D. 2018, co-advised with Dr. Kristen Corbosiero Tropical cyclone rapid intensification in environments of upper-tropospheric troughs: Environmental influences and convective characteristics
Rachel Eldridge	M.S. 2024, co-advised with Dr. Robert Fovell Examining the performance of the High-Resolution Rapid Refresh model during clear, isolated, and widespread convective days in the New York State Capital Region
Emily Paltz	M.S. 2021, co-advised with Dr. Kristen Corbosiero It takes two to tango: Understanding the processes that lead to simultaneous changes in tropical cyclone intensity and size and communicating the associated hazards to emergency managers
Brennan Stutsrim	M.S. 2021, co-advised with Dr. Robert Fovell A mechanism for upscale growth of convection in the complex terrain of the northeast U.S
Jannetta Richardson	M.S. 2020, co-advised with Dr. Ryan Torn Evaluating large-scale and storm-scale characteristics of rapidly intensifying and slowly intensifying tropical cyclones using an analog approach
Pamela Eck	M.S. 2017, co-advised with Dr. Lance Bosart Evaluation of lightning jumps as a predictor of severe weather in the northeastern United States

Advising or Supervising (continued)

Matt Vaughan M.S. 2015, co-advised with Dr. Lance Bosart
An analysis of high-impact, low-predictive skill severe weather events in the northeast U.S.

B. Current

Jannetta Richardson Ph.D. candidate, co-advised with Dr. Robert Fovell
Nicholas Johnson Ph.D. candidate, co-advised with Dr. Kristen Corbosiero
Luis Hernandez Ph.D. candidate, co-advised with Dr. Kristen Corbosiero
Stefano Giove Ph.D. candidate, co-advised with Dr. Kristen Corbosiero
Jake Vile Ph.D. candidate, co-advised with Dr. Kristen Corbosiero

Nathalie Rivera Torres M.S. candidate, co-advised with Dr. Kristen Corbosiero
Emily Lucy M.S. candidate, co-advised with Dr. Kristen Corbosiero
Chris Gilberti M.S. candidate, co-advised with Dr. Justin Minder

III. Ph.D. Committees and M.S. Theses Second Reader

Ph.D. committee member for Dr. Leon Nguyen, Dr. Hannah Attard, Dr. Patrick Duran, Dr. Chip Helms, Dr. Rosimar Rios-Berrios, Dr. Stephanie Stevenson, Dr. Connor Nelson, Dr. Sarah Ditchek, Dr. Cameron Rencurrel, Dr. Matthew Vaughan, Dr. Dylan Card, Dr. Lexi Henny, Dr. Jeremiah Piersante, Minghao Zhou, Krista Dotterer, Melissa Piper, Crizzia De Castro
M.S. second reader for Corey Guastini, Eric Adamchick, Cameron Rencurrel, Kyle Pallozzi, Dylan Card, Mike Main, Emily Dolan

IV. Undergraduate Students

Erik Creighton B.S. 2023
Analysis of the 15 May 2018 severe weather event in eastern New York

Maxim Couillard B.S. 2022
Observations and analysis of the 7 October 2020 derecho

David Moore B.S. 2021
Reevaluating trends of large hail environments within the United States

Kayleen Torres Maldonado B.S. 2020
Factors influencing the genesis and early development of Hurricane Igor (2010)

Luke LeBel B.S. 2020
Examining terrain effects on Upstate New York tornado events utilizing high-resolution model simulations

Briah Davis B.S. 2018
Examining the correlation between lightning patterns and tornadogenesis in supercells

Erin Lynch B.S. 2018
Assessing effective rhetoric on Twitter in relation to forecast uncertainty in hurricane tracks

Advising or Supervising (continued)

Rachel O'Donnell B.S. 2016
Influence of topography on convective patterns across the greater
Capital Region of New York

V. High School Students

Luke LeBel Burnt Hills-Ballston Lake High School 2016
Analysis of heavy rainfall associated with Irene (2011) and Sandy
(2012) over the northeastern United States

Service

I. Department

9/2023–3/2024 Chair, Faculty Search Committee on Extreme Weather Systems
12/2022–4/2023 Member, Faculty Search Committee on Artificial Intelligence
12/2019–present Local Coordinator, American Geophysical Union Bridge Program
8/2018–present Chair, Inclusion and Diversity Committee
10/2017–10/2021 Presenter, Graduate Skills Seminar Series: Python II Workshop
11/2017 Volunteer Coordinator, MiSci Science Festival
9/2013–present Member, Undergraduate Program Committee
6/2014–12/2014 Member, Environmental Science Laboratory Subcommittee
9/2013–11/2021 Presenter, Freshman Seminar: Rotating Tank
8/2013–5/2014 Coordinator, DAES/ASRC Joint Colloquium Series
11/2013–2/2014 Member, Faculty Search Committee

II. University/SUNY

3/2023–present Member, College of Arts and Sciences Diversity/Climate Committee
7/2020–present Member, Committee on Racial Justice
2/2020–6/2021 Co-chair, LGBTQ+ Advisory Council
9/2019–present Member, University Weather Impacts Task Force
9/2019–6/2020 Member, College of Arts and Sciences Diversity/Climate Committee
11/2017–3/2018 Workshop Leader, NY State Master Teacher Program
3/2017–1/2020 Member and Webmaster, LGBTQ+ Advisory Council
5/2016–5/2018 Member, University Life Council Committee
5/2014–5/2019 Volunteer, University at Albany Family Earth Day
11/2013–11/2017 Volunteer, LGBTQ+ Chosen Family Thanksgiving Dinner
8/2013–5/2016 Mentor, University in the High School Program

III. Professional

6/2023 Organizer, 10th Northeast Tropical Meteorology Workshop
4/2022–12/2022 Working Group Member, 10th International Workshop on Tropical Cyc-
lones: Intensity Change External Influences
4/2020–present Guest Speaker, Skype a Scientist
1/2020 Panelist, 19th AMS Student Conference

Service (continued)

7/2019	Member, AMS Early-Career Leadership Academy
4/2018–12/2018	Rapporteur, 9th International Workshop on Tropical Cyclones: Cyclogenesis Research Working Group Member, 9th International Workshop on Tropical Cyclones: Intensity Change External Influences
6/2016–present	Associate Editor, Weather and Forecasting
6/2017	Organizer, 8th Northeast Tropical Meteorology Workshop
1/2017	Judge, Student Poster Awards at the 97th AMS Annual Meeting Panelist, 16th AMS Student Conference
12/2014	Judge, Outstanding Student Paper Awards Judge at the 2014 AGU Fall Meeting
5/2013	Co-Organizer, 6th Northeast Tropical Meteorology Workshop
1/2013	Judge, Student Poster Awards at the 93rd AMS Annual Meeting
6/2011–8/2012	Mentor, Significant Opportunities in Atmospheric Research and Science program at the National Center for Atmospheric Research
4/2012	Chair, Max A. Eaton Prize Committee at the 30th Conference on Hurricanes and Tropical Meteorology

Interviews with *ABC Albany*, *AccuWeather*, *Ars Technica*, *Associated Press*, *BBC*, *CBS Albany*, *CNN*, *Daily Beast*, *Daily Gazette*, *Five Thirty Eight*, *Gizmodo*, *Global News*, *Grist*, *Jim Bohannon Show*, *Mashable*, *MSNBC*, *National Geographic*, *NBC Albany*, *New England Public Media*, *Philadelphia Inquirer*, *Science News*, *Scientific American*, *Spectrum News*, *Syracuse Post-Standard*, *The Weather Channel*, *Times Union*, *Wall Street Journal*, *WAMC Northeast Public Radio*, *Washington Post*, and *Westchester Magazine*

Professional Affiliations

2002–present	American Meteorological Society
2012–present	American Geophysical Union