

Curriculum Vitae

Robin L. Tanamachi

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EDUCATION:

- 2011 **Ph. D.** Meteorology, University of Oklahoma, School of Meteorology
- 2004 **M. S.** Meteorology, University of Oklahoma, School of Meteorology
- 2001 **B. S.** Atmospheric and Oceanic Sciences, University of Wisconsin – Madison

PROFESSIONAL EXPERIENCE:

- 2022 – present **Associate Professor**, Department of Earth, Atmospheric, and Planetary Sciences, Purdue University, West Lafayette, Indiana
- 2015 – 2022 **Assistant Professor**, Department of Earth, Atmospheric, and Planetary Sciences, Purdue University, West Lafayette, Indiana
- 2014 – 2015 **Research Scientist**, University of Oklahoma, Cooperative Institute for Mesoscale Meteorological Studies, Norman, Oklahoma
- 2012 – 2014 **National Research Council Postdoctoral Fellow**, National Severe Storms Laboratory, Norman, Oklahoma
- 2011 – 2012 **Postdoctoral Research Associate**, University of Oklahoma, Center for Analysis and Prediction of Storms, Norman, Oklahoma
- 2010 – 2011 **Research Assistant**, University of Oklahoma, Cooperative Institute for Mesoscale Meteorological Studies, Norman, Oklahoma
- 2005 **Independent Consultant**, Weathernews, Inc., Tokyo, Japan
- 2002 – 2010 **Research Assistant**, University of Oklahoma, College of Atmospheric & Geographic Sciences (formerly: College of Geosciences), School of Meteorology, Norman, Oklahoma
- 2000 – 2002 **Research Intern**, University of Wisconsin – Madison, Atmospheric & Oceanic Science, Space Science and Engineering Center, Madison, Wisconsin

RESEARCH INTERESTS:

Severe convective storms, tornadoes, polarimetric Doppler weather radar, radar data analysis, atmospheric science education research (ASER), high-resolution numerical modeling of convective storms and tornadoes, radar data assimilation, ensemble Kalman filter (EnKF) techniques, mesoscale meteorology, atmospheric radiometry, infrared thermography, atmospheric undular bores.

FUNDING:

1. **Principal investigator:** *Collaborative Research: Enhancing Radar Meteorology Instruction with an Open, Flexible, Online Course*, National Science Foundation award, **\$430,031**, 2023 – 2028.
2. **Principal investigator:** *VORTEX-SE: Characterization of microphysical processes in potentially tornadic Southeast U.S. storms via polarimetric radar - disdrometer - lightning synthesis*, NOAA/DOC award NA19OAR4590209, **\$227,901**, November 2019 – October 2022.

3. **Co-principal investigator:** VORTEX-SE: *Understanding the influence of microphysical processes on the environment and behavior of southeastern-U.S. potentially tornadic storms*, NOAA/DOC award NA18OAR4590313, **\$235,905**, September 2018 – August 2022.
4. **Principal Investigator:** *Collaborative Research: Polarimetric tornado precursor signatures*, National Science Foundation award AGS-1741003, **\$692,700**, November 2017 – October 2023. [Includes CARES Act supplement.]
5. **Principal investigator:** *X-band, Polarimetric, Doppler Weather Radar*. Award from Executive Vice President for Research for installation of a weather radar at Purdue University. **\$312,000**, June 2017 – May 2018.
6. **Co-principal investigator:** *Improved Understanding of Tornado Development and Risk using Models and Observations from VORTEX-SE 2017*, NOAA/DOC award NA16OAR4590208, **\$173,981**, September 2016 – August 2017.
7. **Co-principal investigator:** *Improved Understanding of Tornado Development and Risk using Models and Observations from VORTEX-SE*, NOAA/DOC award NA15OAR4590231, **\$192,901**, September 2015 – September 2017.

TEACHING:

Purdue University:

2024	Summer	EAPS 59100	Severe Storms Field Work
2024	Spring	EAPS 49700	Undergraduate Research Experience
2024	Spring	EAPS 52300	Radar Meteorology
2023	Fall	EAPS 49700	Undergraduate Research Experience
2023	Fall	EAPS 22700	Introduction to Atmospheric Observations and Measurements
2023	Summer	EAPS 59100	Severe Storms Field Work
2023	Spring	EAPS 13800	Thunderstorms and Tornadoes
2023	Spring	EAPS 49700	Undergraduate Research Experience
2022	Fall	EAPS 22700	Introduction to Atmospheric Observations and Measurements
2022	Summer	EAPS 49700	Undergraduate Research Experience
2022	Summer	EAPS 59100	Severe Storms Field Work
2022	Spring	EAPS 52300	Radar Meteorology
2022	Spring	EAPS 49700	Undergraduate Research Experience
2021	Fall	EAPS 22700	Introduction to Atmospheric Observations and Measurements
2021	Fall	EAPS 49700	Undergraduate Research Experience
2021	Spring	EAPS 13800	Thunderstorms and Tornadoes
2021	Spring	EAPS 49700	Undergraduate Research Experience
2020	Fall	EAPS 22700	Introduction to Atmospheric Observations and Measurements
2020	Fall	EAPS 49700	Undergraduate Research Experience
2020	Spring	EAPS 52300	Radar Meteorology
2020	Spring	EAPS 49700	Undergraduate Research Experience
2019	Fall	EAPS 22700	Introduction to Atmospheric Observations and Measurements
2019	Fall	EAPS 49700	Undergraduate Research Experience
2019	Summer	EAPS 59100	Severe Storms Field Work
2019	Summer	EAPS 49700	Undergraduate Research Experience
2019	Spring	EAPS 49700	Undergraduate Research Experience
2018	Fall	EAPS 53500	Atmospheric Observations and Measurements
2018	Fall	EAPS 49700	Undergraduate Research Experience

2018	Summer	EAPS 59100	Severe Storms Field Work
2018	Spring	EAPS 52300	Radar Meteorology
2018	Spring	EAPS 49700	Undergraduate Research Experience
2017	Fall	EAPS 53500	Atmospheric Observations and Measurements
2017	Summer	EAPS 59100	Severe Storms Field Work
2016	Fall	EAPS 53500	Atmospheric Observations and Measurements
2016	Summer	EAPS 49700	Undergraduate Research Experience
2016	Spring	EAPS 52300	Radar Meteorology
2016	Spring	EAPS 39100	Special Topics: VORTEX-SE Field Research
2015	Fall	EAPS 53500	Atmospheric Observations and Measurements

University of Oklahoma:

2015	Spring	METR 4911 & 4922	Senior Capstone (mentor)
2012	Summer	N/A	Radar Meteorology Training Workshop for the Nigerian Meteorological Agency (instructor)
2007	Spring	METR 2603	Severe and Unusual Weather

PUBLICATIONS:

Refereed articles:

1. Molina, M. J., A. McGovern, J. S. Perez-Carrasquilla, and **R. L. Tanamachi**, 2024: Using Generative Artificial Intelligence Creatively in the Classroom: Examples and Lessons Learned. *Bull. Amer. Meteor. Soc.*, in review, doi:/10.48550/arXiv.2409.05176.
2. Belak, S. L., **R. L. Tanamachi**, M. Asel, G. Dennany, A. Gnanasambandam, S. J. Frasier, and F. Rocadenbosch, 2024: Quality control of Doppler spectra from a vertically pointing, S-band profiling radar. *J. Atmos. Ocean. Tech.*, 41, 375—391, doi:10.1175/JTECH-D-23-0099.1.
3. Sharma, M., **R. L. Tanamachi**, and E. C. Bruning, 2023: Investigating temporal characteristics of polarimetric and electrical signatures in severe storms: Insights from the VORTEX-Southeast field campaign. *Mon. Wea. Rev.*, **152**, 1511—1536, doi:10.1175/mwr-d-23-0144.1.
4. LaFleur, A. T., **R. L. Tanamachi**, Dawson II, D. T. and D. D. Turner, 2023: Factors affecting the rapid recovery of CAPE on 31 March 2016 during VORTEX-Southeast. *Mon. Wea. Rev.*, 151, 1459—1477, doi: 10.1175/MWR-D-22-0051.1.
5. Kollias, P., and 22 coauthors (incl. **R. L. Tanamachi**), 2022: Science Applications of Phased Array Radars. *Bull. Amer. Meteor. Soc.*, 103, E2370–E2390, doi:10.1175/BAMS-D-21-0173.1.
6. Araújo da Silva, M., F. Rocadenbosch, **R. L. Tanamachi**, and U. Saeed, 2022: Motivating a synergistic mixing-layer height retrieval method using backscatter lidar returns and microwave-radiometer temperature observations. *IEEE Transactions on Geoscience and Remote Sensing*, 60, 1-18, doi:10.1109/TGRS.2022.3158401.
7. Sharma, M., **R. L. Tanamachi**, E. C. Bruning, and K. M. Calhoun, 2021: Polarimetric and Electrical Structure of the 19 May 2013 Edmond-Carney, Oklahoma Tornadic Supercell. *Mon. Wea. Rev.*, **149**, 2048 – 2078; doi:10.1175/MWR-D-20-0280.1.
8. **Tanamachi, R. L.**, D. T. Dawson, and L. C. Parker, 2020: Students of Purdue Observing Tornadic Thunderstorms for Research (SPOTTR): A severe storms field work course at Purdue University. *Bull. Amer. Meteor. Soc.*, **101**, E847–E868, doi:10.1175/BAMS-D-19-0025.1.
9. Rocadenbosch, F., R. Barragán, S. J. Frasier, J. Waldinger, D. D. Turner, **R. L. Tanamachi**, and D. T. Dawson, 2020: Ceilometer-Based Rain-Rate Estimation: A Case-Study Comparison With S-Band

- Radar and Disdrometer Retrievals in the Context of VORTEX-SE. *IEEE Transactions on Geoscience and Remote Sensing*, **58**, 8268–8284, doi:10.1109/TGRS.2020.2984458.
10. Murdzek, S. S., P. M. Markowski, Y. P. Richardson, and **R. L. Tanamachi**, 2020: Processes Preventing the Development of a Significant Tornado in a Colorado Supercell on 26 May 2010. *Mon. Wea. Rev.*, **148**, 1753–1778, <https://doi.org/10.1175/MWR-D-19-0288.1>.
 11. **Tanamachi, R. L.**, S. J. Frasier, J. Waldinger, A. T. LaFleur, D. D. Turner, and F. Rocadenbosch, 2019: Progress toward Characterization of the Atmospheric Boundary Layer over Northern Alabama Using Observations by a Vertically Pointing, S-Band Profiling Radar during VORTEX-Southeast. *J. Atmos. Oceanic Technol.*, **11**, 2221–2246, doi:10.1175/JTECH-D-18-0224.1.
 12. Wood, V. T., **R. L. Tanamachi**, and L. W. White, 2017: Influences of larger-scale vortex variability on tornado pressure minima in an outer-flow region: Explorations using a parametric tangential wind model. *Mon. Wea. Rev.*, **145**, 1597–1614, doi:10.1175/MWR-D-16-0191.1.
 13. **Tanamachi, R. L.**, and P. L. Heinselman, 2016: Rapid-scan, polarimetric observations of central Oklahoma severe storms on 31 May 2013. *Wea. Forecasting*, **31**, 19-42, doi:10.1175/WAF-D-15-0111.1.
 14. **Tanamachi, R. L.**, P. L. Heinselman, and L. J. Wicker, 2015: Impacts of a storm merger on the 24 May 2011 El Reno, Oklahoma tornadic supercell. *Wea. Forecasting*, **30**, 501–524, doi:10.1175/WAF-D-14-00164.1.
 15. **Tanamachi, R. L.**, H. B. Bluestein, M. Xue, W.-C. Lee, K. A. Orzel, S. J. Frasier, and R. M. Wakimoto, 2013: Near-surface vortex structures in a tornado and a sub-tornado strength, convective-storm vortex observed by a mobile, W-band radar during VORTEX2. *Mon. Wea. Rev.*, **141**, 3661-3690.
 16. **Tanamachi, R. L.**, L. J. Wicker, D. C. Dowell, H. B. Bluestein, and M. Xue, 2013: EnKF assimilation of high-resolution, mobile Doppler radar data of the 4 May 2007 Greensburg, Kansas supercell into a numerical cloud model. *Mon. Wea. Rev.*, **141**, 625-648.
 17. Dawson, D. T., L. J. Wicker, E. R. Mansell, and **R. L. Tanamachi**, 2012: Impact of the environmental low-level wind profile on ensemble forecasts of the 4 May 2007 Greensburg, KS tornadic storm and associated mesocyclones. *Mon. Wea. Rev.*, **140**, 696-716.
 18. **Tanamachi, R. L.**, H. B. Bluestein, J. B. Houser, S. Frasier, K. Hardwick, 2012: Mobile, polarimetric, X-band Doppler radar observations of the 4 May 2007 Greensburg, Kansas tornadic supercell. *Mon. Wea. Rev.*, **140**, 2103-2125.
 19. Walden, V. P., **R. L. Tanamachi**, P. M. Rowe, H. E. Revercomb, D. C. Tobin, and S. A. Ackerman, 2010: Improvements in the data quality of the Interferometric Monitor for Greenhouse Gases. *Appl. Opt.*, **49**, 520-528.
 20. **Tanamachi, R. L.**, W. F. Feltz, M. Xue, 2008: Observations and numerical simulations of rapid upper boundary layer drying and moistening events during the International H₂O Project (IHOP_2002). *Mon. Wea. Rev.*, **136**, 3106-3120.
 21. Bluestein, H. B., M. M. French, **R. L. Tanamachi**, S. Frasier, K. Hardwick, F. Junyent, A. Pazmany, 2007: Close-range observations of tornadoes in supercells made with a dual-polarization, X-band, mobile Doppler radar. *Mon. Wea. Rev.*, **135**, 1522-1543.
 22. Bluestein, H. B., C. C. Weiss, M. M. French, E. Holthaus, **R. L. Tanamachi**, S. Frasier, A. Pazmany, 2007: The structure of a tornado near Attica, Kansas on 12 May 2004: High-resolution, mobile, Doppler-radar observations, *Mon. Wea. Rev.*, **135**, 475-506.
 23. **Tanamachi, R. L.**, H. B. Bluestein, W.-C. Lee, M. Bell, A. Pazmany, 2007: Ground-Based Velocity Track Display (GBVTD) analysis of W-band Doppler radar data in a tornado near Stockton, Kansas on 15 May 1999. *Mon. Wea. Rev.*, **135**, 783-800.

24. **Tanamachi, R. L.**, H. B. Bluestein, S. S. Moore, R. P. Madding, 2006: Infrared thermal imagery of cloud base in tornadic supercells. *J. of Atmospheric and Oceanic Tech.*, **23**, 1445 – 1461.

Conference publications and other non-refereed items:

1. Salcedo Bosch, A., F. Rocadenbosch, A. García-García, C. López-Martínez, **R. L. Tanamachi**, D. T. I. Dawson, and S. J. Frasier, 2025: Vertical air motion retrieval from frequency-modulated continuous-wave-radar rain measurements. 2025 IEEE International Geoscience and Remote Sensing Symposium, Brisbane, Australia, IEEE.
2. **Tanamachi, R. L.**, A. Smith, A. Hirsch, E. W. Palmer, G. Takahashi, and J. A. White, 2025: Building an Open, Flexible, Online Radar Meteorology Course. *34th Conf. on Education*, 105th American Meteorological Society Annual Meeting, New Orleans, Louisiana, American Meteorological Society, P357.
3. Rahman, O. R., and **R. L. Tanamachi**, 2025: Parameter Assessment for a Marginal, High-Shear, Low-CAPE (HSLC) Cold Season Tornado Event in Indiana. *24th Annual Student Conf.*, 105th American Meteorological Society Annual Meeting, New Orleans, Louisiana, American Meteorological Society, S258.
4. Nyarko, S. C., S. Yager, G. Druschel, and **R. L. Tanamachi**, 2024: Enhancing Fieldwork Through Explicit Teamwork Instruction: A Study on Collaborative Process Skills in Geoscience Education. Education Research in the Earth and Space Sciences, *American Geophysical Union Fall 2024 Conference (AGU24)*, Washington, D. C., American Geophysical Union, ED34A-04.
5. Peterson, L. R., O. Rahman, M. A. Smith, and **R. L. Tanamachi**, 2024: Digitizing Purdue's Role in Tornado Science: Preserving Materials from the 1974 Super Outbreak in Indiana. *Central Indiana Severe Weather Symposium*, Muncie, Indiana, Ball State University.
6. Girardi, E. R. K., 2024: A Meteorological Investigation of a Tornado-Producing, 'Hybrid' Supercell-Multicell Storm near Delphi, Indiana on 8 May 2023. *J. Purdue Undergraduate Research*, **14**, 132–133.
7. Collis, S., and 13 coauthors (including **R. L. Tanamachi**), 2024: Open Radar Science, *12th European Conf. on Radar Meteorology and Hydrology (ERAD 2024)*, Rome, Italy.
8. Salcedo Bosch, A., F. Rocadenbosch, A. G. Garcia, S. Lolli, **R. L. Tanamachi**, and S. J. Frasier, 2024: A Straightforward Atmospheric-Radar Simulator for Vertical-Air-Motion Analysis from Frequency-Modulated Continuous-Wave-Radar Rain Measurements. *12th European Conf. on Radar Meteorology and Hydrology (ERAD 2024)*, Rome, Italy.
9. **Tanamachi, R. L.**, 2024: Severe Storms Field Work Course Impacts Remain High after a Pandemic-Caused Hiatus. *31st Conf. on Severe Local Storms*, Virginia Beach, Virginia, American Meteorological Society, P9.
10. Bruss, J., and **R. L. Tanamachi**, 2024: The Limitations of Dry Snow as a ZDR Calibration Target at X-band. *31st Conf. on Severe Local Storms*, Virginia Beach, Virginia, American Meteorological Society, P162.
11. Herriott, J., and **Tanamachi, R. L.**, 2024: Spatiotemporal Characterization of ZDR Column Behavior in X-Band Radar Observations of Tornadic Storms. *31st Conf. on Severe Local Storms*, Virginia Beach, Virginia, American Meteorological Society, P155.
12. Peterson, L. R., O. Rahman, and M. A. Smith, 2024: Digitizing Purdue's Role in Tornado Science: Preserving Materials from the 1974 Super Outbreak in Indiana. *Purdue Summer Undergraduate Research Symposium*, West Lafayette, Indiana, Purdue University, P1474. [**Prof. Tanamachi** served as mentor.]

13. Girardi, E. R. K., and **R. L. Tanamachi**, 2024: A Meteorological Investigation of a Tornado-Producing, ‘Hybrid’ Supercell-Multicell Storm near Delphi, Indiana on 8 May 2023. *Purdue Undergraduate Research Conference*, West Lafayette, Indiana, Purdue University.
14. Rahman, O., and **R. L. Tanamachi**, 2024: Meteorological Case Study of QLCS Tornado in Southern Indiana on New Year’s Eve 2018. *Purdue Undergraduate Research Conference*, West Lafayette, Indiana, Purdue University.
15. McGovern, A., M. J. Molina, **R. L. Tanamachi**, and J. S. Perez-Carrasquilla, 2024: Using AI Creatively in the Classroom: Lessons Learned. *33rd Conf. on Education*, 104th American Meteorological Society Annual Meeting, Baltimore, Maryland, American Meteorological Society, J13.1.
16. Flynn, W. J., **R. L. Tanamachi**, J. Oehrlien, Z. J. Handlos, R. H. Humphrey, and S. J. Petitto, 2024: Thinking About Thinking: How is Metacognitive Development Fostered in Undergraduate Atmospheric Science Programs? *33rd Conf. on Education*, 104th American Meteorological Society Annual Meeting, Baltimore, Maryland, American Meteorological Society, 15.3.
17. Harr, D., and **R. Tanamachi**, 2024: Validating Model Freezing Level Heights for West Lafayette, Indiana using Purdue University Radiosonde Data. *24th Annual Student Conference*, 104th American Meteorological Society Annual Meeting, Baltimore, Maryland, American Meteorological Society, S221.
18. Eichenauer, M., **R. Tanamachi**, and J. Bruss, 2024: Effects of beam occultation on radar-based precipitation estimates from the Purdue University X-band Teaching and Research Radar (XTRRA). *24th Annual Student Conference*, 104th American Meteorological Society Annual Meeting, Baltimore, Maryland, American Meteorological Society, S226.
19. Girardi, E. R. K., and **R. L. Tanamachi**, 2023: A Meteorological Investigation of a Tornado-Producing, ‘Hybrid’ Supercell-Multicell Storm near Delphi, Indiana on 8 May 2023. *Purdue Undergraduate Research Expo*, West Lafayette, Indiana, Purdue University, Poster 1210.
20. **Tanamachi, R. L.**, 2023: A CURE for Radar Meteorology: Piloting the Course-Based Undergraduate Research Experience Format at Purdue University. *40th Conf. on Radar Meteorology*, Minneapolis, Minnesota, American Meteorological Society, 4A.3.
21. LaFleur, A. T., **R. L. Tanamachi**, and D. T. Dawson II, 2023: Impacts of Hail on Simulated Z_{DR} Arc Identification. *40th Conf. on Radar Meteorology*, Minneapolis, Minnesota, American Meteorological Society, 12A.6.
22. Bruss, J., E. Miller, D. Harr, and **R. L. Tanamachi**, 2023: Testing X-Band Z_{DR} Calibration Using Dry Snow. *40th Conf. on Radar Meteorology*, Minneapolis, Minnesota, American Meteorological Society.
23. Navarrete Urrego, J., J. Bruss, and **R. L. Tanamachi**, 2023: Testing an Experimental Dry Snow ZDR Calibration Method on DOW (Doppler on Wheels) Data from Winter 2018. *40th Conf. on Radar Meteorology*, Minneapolis, Minnesota, American Meteorological Society, V10.
24. Sayed, H. A., D. T. Dawson II, F. Vendl, **R. L. Tanamachi**, and M. D. Parker, 2023: DSD Characteristics and Evolution of the Leading Stratiform Region of a Tornadic QLCS during PERiLS-2022 IOP#2 (30 March 2022). *40th Conf. on Radar Meteorology*, Minneapolis, Minnesota, American Meteorological Society, 16A.3.
25. **Tanamachi, R. L.**, M. Eichenauer, and J. Bruss, 2023: Beam occultation impacts on quantitative precipitation estimates from the Purdue University X-band Teaching and Research Radar (XTRRA). *40th Conf. on Radar Meteorology*, Minneapolis, Minnesota, American Meteorological Society.

26. Miller, E., 2023: Characterizing Differential Reflectivity Calibration Dependence on Environmental Temperature Using the X-Band Teaching and Research Radar: Looking for a Relationship between Temperature and Differential Reflectivity Bias. *J. Purdue Undergraduate Research*, **13**, Article 6. [**Prof. Tanamachi** served as mentor.]
27. Navarrete Urrego, J., 2023: Testing an Experimental Dry Snow ZDR Calibration Method on DOW (Doppler on Wheels) Data from Winter 2018. *UREP-C Undergraduate Research Experience Final Symposium*, West Lafayette, Indiana, Purdue University. [**Prof. Tanamachi** served as mentor.]
28. Navarrete Urrego, J., 2023: A geographer's perspective on storm chasing. *Purdue Summer Undergraduate Research Symposium*, West Lafayette, Indiana, Purdue University, Virtual Poster 713. [Recording available at <https://youtu.be/q1OQvIDn4uo>. **Prof. Tanamachi** served as mentor.]
29. Miller, E., M. Graber, and **R. L. Tanamachi**, 2023: Investigation of a Negative Lead Time Tornado using the X-band Teaching and Research Radar (XTRRA). *Purdue Undergraduate Research Conference*, West Lafayette, Indiana, Purdue University.
30. Monrouzeau, M., 2023: Meteorological Investigation of a Possible Undocumented Tornado in Puerto Rico on 17 June 2012. *Purdue Undergraduate Research Conference*, West Lafayette, Indiana, Purdue University. [**Prof. Tanamachi** served as mentor.]
31. Harr, D., and **R. L. Tanamachi**, 2023: Validating Freezing Level Heights for Lafayette, IN Using Purdue University Weather Balloon Data. *Purdue Undergraduate Research Conference*, West Lafayette, Indiana, Purdue University.
32. Miller, E. M., 2023: Characterizing Differential Reflectivity Calibration Dependence on Environmental Temperature using the X-Band Teaching and Research Radar (XTRRA). *22nd Annual Student Conference*, 103rd American Meteorological Society Annual Meeting, Denver, Colorado, American Meteorological Society, S238. [**Prof. Tanamachi** served as mentor.]
33. Belak, S., **R. Tanamachi**, and S. Frasier, 2023: UMass S-band FMCW Profiling Radar Data. Version 2.0. 1314 data files, 2 ancillary/documentation files, 544 GiB, doi:10.5065/D67P8WS3.
34. **Tanamachi, R. L.**, L. C. Parker, and R. Koopmans, 2022: Using an online storm chasing game as a vehicle to teach meteorology. *30th Conf. on Severe Local Storms*, Santa Fe, New Mexico, American Meteorological Society, P39.
35. **Tanamachi, R. L.**, L. C. Parker, and R. Koopmans, 2022: Using an online storm chasing game as a vehicle to teach meteorology. *30th Conf. on Severe Local Storms*, Santa Fe, New Mexico, American Meteorological Society, P117.
36. Sharma, M., **R. L. Tanamachi**, D. T. Dawson II, E. C. Bruning, and E. R. Mansell, 2022: Investigating the Relationship between Cloud Microphysics and Electrification in Southeast US Storms Using Cold pool and Lightning Characteristics. *30th Conf. on Severe Local Storms*, Santa Fe, New Mexico, American Meteorological Society, 18.2.
37. LaFleur, A. T., and **R. L. Tanamachi**, 2022: Impacts of hail on ZDR arc identification. *30th Conf. on Severe Local Storms*, 30th Conf. on Severe Local Storms, Santa Fe, New Mexico, American Meteorological Society, P123.
38. Navarre, R., and **R. L. Tanamachi**, 2022: On Using Radar Reflectivity to Assess the Impact of Changing Temperature on Rainfall. *Purdue Undergraduate Research Expo*, West Lafayette, Indiana, Purdue University.
39. Miller, E., and **R. L. Tanamachi**, 2022: Characterizing Differential Reflectivity Calibration Dependence on Environmental Temperature using the X-band Teaching and Research Radar (XTRRA). *Purdue Undergraduate Research Expo*, West Lafayette, Indiana, Purdue University.

40. Eichenauer, M., and **R. L. Tanamachi**, 2022: Effects of Beam Occultation on Radar-Based Precipitation Estimates. *Purdue Undergraduate Research Expo*, West Lafayette, Indiana, Purdue University.
41. Sharma, M., **R. L. Tanamachi**, D. T. Dawson II, E. C. Bruning, and E. R. Mansell, 2022: The Relationship Between Cloud Microphysics and Electrification in Southeast U.S. Storms Investigated Using Polarimetric, Cold Pool, and Lightning Characteristics. *AGU Fall Meeting 2022*, Chicago, Illinois, American Geophysical Union.
42. Bruss, J., 2022: Polarimetric Radar and VHF Lightning Observations in a Significantly Tornadoic Supercell. *J. Purdue Undergraduate Research*, **12**, Article 28, 116–117, doi:10.7771/2158-4052.1559. [**Prof. Tanamachi** served as mentor.]
43. LaFleur, A. T., and **R. L. Tanamachi**, 2022: The relationship between ZDR arcs and storm-relative helicity in simulated tornadoic and non-tornadoic thunderstorms. *10th European Conf. on Radar Meteorology and Hydrology*, Locarno, Switzerland, MeteoSwiss, NCT.P14.
44. LaFleur, A. T., and **R. L. Tanamachi**, 2022: How hail fallout affects the accuracy of automated ZDR arc identification: Preliminary Results. *10th European Conf. on Radar Meteorology and Hydrology*, , Locarno, Switzerland, MeteoSwiss, NCT.P15.
45. **Tanamachi, R. L.**, L. Carleton Parker, and R. Koopmans, 2022: Using an online storm chasing game as a vehicle to teach meteorology. *Earth Educator's Rendezvous 2022*, Minneapolis, Minnesota, SERC, Thursday B1.
46. **Tanamachi, R. L.**, L. C. Parker, R. Koopmans, 2022: Use of an online game for engagement in a large, hybrid meteorology course. *31st Conf. on Education*, 102nd AMS Annual Meeting, Houston, Texas, American Meteorological Society, 11.6.
47. LaFleur, A. T., and **R. L. Tanamachi**, 2022: The Relationship between Z_{DR} Arcs and Storm-Relative Helicity in Simulated Tornadoic and Nontornadoic Thunderstorms. *19th Conf. on Mesoscale Processes*, 102nd AMS Annual Meeting, Houston, Texas, American Meteorological Society, P133.
48. Bruss, J., M. Sharma, and **R. L. Tanamachi**, 2022: Analysis of a ZDR Column Footprint Relative Lightning Flash Size Distribution during the 19 May 2013 Norman–Shawnee Supercell. *21st Annual Student Conference*, 102nd AMS Annual Meeting, Houston, Texas, American Meteorological Society, S181.
49. Araújo da Silva, M., F. Rocadenbosch, **R. L. Tanamachi**, and U. Saeed, 2022: Synergistic mixed-layer height retrieval method using microwave radiometer and lidar ceilometer observations. *IGARSS 2022*, Kuala Lumpur, Malaysia, IEEE, P1132.
50. Sharma, M., **R. L. Tanamachi**, E. C. Bruning, and S. De Iaco, 2021: Spatiotemporal analysis of cold pool and lightning observations for a tornadoic supercell from VORTEX-SE 2016 field campaign. *2021 AGU Annual Meeting*, New Orleans, Louisiana, American Geophysical Union, AE12A-06.
51. Nelson, R., 2021: Automated Detection and Characterization of Mesocyclones in X-band Radar Observations. *J. of Purdue Undergraduate Research*, **11**, Article 26, doi:10.7771/2158-4052.1498. [**Prof. Tanamachi** served as mentor.]
52. **Tanamachi, R. L.**, 2021: Can severe storms field work be taught remotely? A proposed experiment at Purdue University. *2021 Undergraduate Field Experiences Research Network (U-FERN) Meeting*, Virtual, Oregon State University, C.2.
53. Nelson, R., and **R. L. Tanamachi**, 2021: Automated Detection of Mesocyclones Including Area and Intensity in X-band Radar Observations. *Purdue Undergraduate Research Fair*, West Lafayette, Indiana, Purdue University.

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136. Wood, V. T., L. White, C. Alexander, and **R. L. Tanamachi**, 2006: An analytical model of one- and two-celled vortices: preliminary testing. *23rd Conf. on Severe Local Storms*, St. Louis, Missouri, American Meteorological Society, P10.11.
137. **Tanamachi, R. L.**, H. B. Bluestein, M. Bell, W.-C. Lee, A. Pazmany, and C. C. Weiss, 2005: The evolution of a tornado: Ground-Based Velocity Track Display (GBVTD) analysis of mobile, W-band Doppler radar data on 15 May 1999 near Stockton, Kansas. *32nd Conf. on Radar Meteorology*, Albuquerque, New Mexico, American Meteorological Society, P15R.13.
138. **Tanamachi, R. L.**, H. B. Bluestein, C. C. Weiss, M. Bell, W.-C. Lee, and A. L. Pazmany, 2004: The structure of a tornado: Ground-based velocity track display (GBVTD) analysis of mobile, W-band, Doppler radar data on 15 May 1999 near Stockton, Kansas. *22nd Conf. on Severe Local Storms*, Hyannis, Massachusetts, American Meteorological Society, P11.15.
139. **Tanamachi, R. L.**, H. B. Bluestein, S. S. Moore, R. P. Madding, and C. R. Alexander, 2004: Infrared thermal imagery of cloud base in tornadic supercells. *22nd Conf. on Severe Local Storms*, Hyannis, Massachusetts, American Meteorological Society, 14.14a.
140. **Tanamachi, R. L.**, and W. F. Feltz, 2004: Real-time nowcasting with the Atmospheric Emitted Radiance Interferometer (AERI). *84th AMS Annual Meeting*, Seattle, Washington, American Meteorological Society, P1.4.

141. Knuteson, R. O., D. H. Deslover, A. M. Larar, B. Osborne, H. E. Revercomb, J. F. Short, W. L. Smith, and **R. Tanamachi**, 2003: Infrared land surface remote sensing using high spectral resolution observations. *SPIE*, 24-35.
142. Bluestein, H. B., C. C. Weiss, M. M. French, E. M. Holthaus, **R. L. Tanamachi**, S. J. Frasier, and A. L. Pazmany, 2002: High-resolution structure of tornadoes in south-central Kansas on 12 May 2004: Analysis of mobile Doppler radar data. *23rd Conf. on Severe Local Storms*, St. Louis, Missouri, American Meteorological Society, 15.13.
143. **Tanamachi, R. L.**, V. P. Walden, S. A. Ackerman, H. E. Revercomb, and R. O. Knuteson, 2001: Progress towards a high-quality data set of infrared spectra from the Interferometric Monitor for Greenhouse Gases (IMG). *5th Symp. on Integrated Observing Systems*, Albuquerque, New Mexico, American Meteorological Society, P1.2.
144. **Tanamachi, R. L.**, V. P. Walden, S. A. Ackerman, and R. O. Knuteson, 2001: Quality control and preliminary data analysis of the Interferometric Monitor for Greenhouse Gases (IMG) data set. *11th Conf. on Satellite Meteorology and Oceanography*, Madison, Wisconsin, American Meteorological Society, P.5.61.

Invited talks:

- 2025 Instructor, Girls Who Chase Spring Training, “Radar Interpretation for Storm Chasing: Intermediate/Advanced”; also career panelist
- 2025 Guest lecture, U. of Calif. Davis, ATM 110, “Introduction to Radar Meteorology”
- 2025 Panelist, Severe Weather Careers, 24th Student Conference, American Meteorological Society
- 2025 Panelist, AMS Women’s Workshop, 105th American Meteorological Society Annual Meeting
- 2025 Presenter, “Storm Chaser Training”, 24th Student Conf., American Meteorological Society and Girls Who Chase
- 2024 Instructor, UCAR COMET workshop for the Korean Meteorological Agency, “Introduction to Radar Meteorology”
- 2024 Guest lecture, Purdue University, EAPS 22700, “Introduction to Storm Observations and Measurements”
- 2024 Panelist, “How to talk to students about Generative AI”, Purdue TLCOP session
- 2024 Madison Area Technical College Dark Skies Symposium presentation, “Dirty Radar Secrets”
- 2024 Panelist on Generative AI, Teaching and Learning Community of Practice, Purdue University
- 2024 Panelist, “Using AI Creatively in the Classroom: Lessons Learned”, 33rd Conf. on Education, AMS Annual Meeting
- 2023 Panelist on the topic of “storm chasing,” Florida University Meteorology Department (virtual)
- 2023 Seminar, University of Illinois Urban-Champaign, “Experiential learning in atmospheric science: Why it works, and how to put it into practice”
- 2023 Panelist, Girls Who Chase Spring Training 2023
- 2023 Remote seminar, Iowa State University, “Experiential learning in atmospheric science: Why it works, and how to put it into practice”
- 2023 Guest lecture, Purdue University, EAPS 32500, “Radar in Meteorology”
- 2023 Remote presentation, AMS St. Louis chapter, “Dirty Radar Secrets”
- 2022 Presentation, Indiana Storm Chaser Convention, “Dirty Radar Secrets”
- 2022 Guest presentation, Carmel Clay Public Library, “The Tornado Scientist: Storm Chasing with Dr. Tanamachi”
- 2022 Seminar, Notre Dame University, “Experiential learning in atmospheric science: Why it works, and how to put it into practice”

- 2021 Guest lecture, Purdue University, EAPS 11700, “My Storm Science Journey”
- 2021 Purdue College of Science Women in Science Program panel, “Professional/Academic Social Media Use”
- 2021 DOCTSS Weather Briefing, Salina, Kansas (virtual)
- 2021 Presentation, Klondike Elementary School, West Lafayette, Indiana: “Tornado facts and safety”
- 2021 Central Indiana Severe Weather Symposium (virtual): “Integration of research weather radars into atmospheric science education at Purdue University”
- 2021 California Academy of Sciences, [NightSchool: Extreme Science](#) (virtual): “Radar-based investigations of tornadoes: Where we’ve been and we’re going”
- 2021 Wabash Heartland Innovation Network Agricultural Forum (virtual): “Teaching meteorology in a time of COVID-19”
- 2020 [Women in Science Panel](#) (virtual), National Weather Festival, Norman, Oklahoma
- 2020 Presentation, Klondike Elementary School, West Lafayette, Indiana: “Tornado facts and safety”
- 2019 Presentation, Indiana Storm Chaser Convention: “Integration of Research Weather Radars into Atmospheric Science Education at Purdue University”
- 2019 Presentation, Bauer Family Resource Center, Lafayette, Indiana: “Tornado facts and safety”
- 2019 Guest lecture, Purdue University, EAPS 13700 (Freshman Seminar): “Atmospheric science major” (delivered both Spring and Fall)
- 2019 Presentation, Ohio University Meteorological Symposium, Athens, Ohio: “A New Weather Radar at Purdue University: The X-band Teaching and Research Radar (XTRRA)”
- 2019 Seminar, University of Illinois – Urbana-Champaign, Department of Atmospheric Science, Urbana, Illinois. “A New Weather Radar at Purdue University: The X-band Teaching and Research Radar (XTRRA)”
- 2018 Presentation, Purdue University Meteorological Association (PUMA). “What’s New in Radar at Purdue University”
- 2018 Colloquium, Ball State University, Department of Geography, Muncie, Indiana. “A New Weather Radar at Purdue University: The X-band Teaching and Research Radar (XTRRA)”
- 2018 Burgett’s Learning Center Summer Camp, West Lafayette, Indiana. “Tornado facts and safety”
- 2018 Guest lecture, Purdue University, EAPS 13700 (Freshman Seminar): “Atmospheric science major” (delivered both Spring and Fall)
- 2017 Guest lecture, Purdue University, EAPS 13700 (Freshman Seminar): “Radar-based investigations of tornadoes: Where we’ve been, and where we’re going”
- 2016 *28th Conf. on Severe Local Storms*, Portland, Oregon, American Meteorological Society: “Research Tools Tutorial” (radar section)
- 2016 Public lecture, Imagination Station, Lafayette, Indiana: “An Introduction to Tornado Science”
- 2016 Purdue Girls Science Camp, West Lafayette, Indiana: “Unraveling Tornadoes with Mobile Doppler Radar”
- 2016 Guest lecture, Purdue University, EAPS 13700 (Freshman Seminar): “Radar-based investigations of tornadoes: Where we’ve been, and where we’re going”
- 2015 OU Aviation Workshop, Norman, Oklahoma: “Fundamentals of Radar Interpretation”
- 2015 Guest lecture, University of Oklahoma, METR / ECE 5683 (Weather Radar Applications): “Radar-based investigations of tornadoes: Where we’ve been, and where we’re going”
- 2014 Seminar, University of Oklahoma, School of Meteorology: “Investigation of a cell merger accompanying cyclic tornado production”
- 2013 Keynote, Minnesota Skywarn Workshop, Minneapolis, Minnesota: “Unraveling Tornadoes with Mobile Doppler Radar: Scientific Storm Chasing on the Great Plains”.

2012 University of Wisconsin – Madison IEEE Section: “Unraveling Tornadoes with Mobile Doppler Radar”

HONORS AND AWARDS:

2023 **Most Distinguished Faculty for Campus and Community Engagement Award**, Office of Engagement, Purdue University

2021 **Award for Exceptional Teaching and Instructional Support during the COVID-19 Pandemic**, Teaching Academy and Office of the Provost, Purdue University

2019 **Engagement Award**, Department of Earth, Atmospheric, and Planetary Sciences

2016 **Violet B. Haas Fellowship**, Colleges of Science and Engineering, Purdue University

2015-2023 **Teaching Honor Roll**, Department of Earth, Atmospheric, and Planetary Sciences, Purdue University.

2012-2014 **National Research Council Postdoctoral Fellowship**, NOAA National Severe Storms Laboratory, Norman, Oklahoma.

MEMBERSHIPS AND SERVICE:

Professional societies:

Member, **American Meteorological Society** (2003 – present)

- Board on Higher Education (term of service: 2022 – 2028)
- Journalism award committee member (2023)
- Battan K-12 Book Award committee member (2022), chair (2024 - 2025)
- Program committee and session chair, 41st Conf. on Radar Meteorology, Toronto, Ontario, Canada (2025). Topical chair for “Radar Meteorology Education.”
- Program committee and session chair, 31st Conf. on Severe Local Storms, Virginia Beach, Virginia (2024). Topical chair for “Radar, Satellite, and Field Observations;” session chair for “Education and Social Sciences”
- Program committee and session chair, 40th Conf. on Radar Meteorology, Minneapolis, Minnesota (2023). Topical chair for “Radar Meteorology Education;” topical co-chair for “Numerical Weather Prediction and Radar Meteorology”
- Instructor, virtual short course, “Starting a ‘Storm Chasing’ Course at your College or University” (2022)
- Radar Meteorology Committee (term of service: 2013 – 2019)
- Session chair, 39th Int. Conf. on Radar Meteorology, Nara, Japan (2019).
- Program committee and session chair, 28th Conf. on Severe Local Storms, Portland, Oregon (2016).
- Session chair, 37th Conf. on Radar Meteorology, Norman, Oklahoma (2015)
- Program committee and session chair, 27th Conf. on Severe Local Storms, Madison, Wisconsin (2014).

Refereed publications and funding agencies:

Reviewer for *Monthly Weather Review*, *Journal of Atmospheric Science*, *Electronic Journal of Severe Storms Meteorology*, *Journal of Geophysical Research – Atmospheres*, *Electronic Journal of Operational Meteorology*, *Journal of Applied Meteorology and Climatology*, *Weather and Forecasting*, *Bulletin of the American Meteorological Society*, *Journal of Geoscience Education*, *Atmospheric Measurement Techniques*.

Associate Editor, *Monthly Weather Review* (2015 – 2022).

Reviewer for National Science Foundation: *ad hoc* for grant proposals (2014 – present), NCAR review panel (2016), AGS review panel (2024), EDU review panel (2025)

Reviewer for National Oceanic and Atmospheric Administration: *ad hoc* for LOIs and grant proposals (2021 – present)

Reviewer for Deutsche Forschungsgemeinschaft (DFG) “Polarimetric Radar Observations Meet Atmospheric Modeling (PROM)” priority programme panel (2021)

University service:

2023 – 2024	Faculty Senate	EAPS
2023 – 2024	Equity, Diversity, and Inclusion Committee	Faculty Senate
2022 – present	PAC member for two assistant professors	EAPS
2022 – 2023	Terrestrial Climate Drivers search committee	EAPS
2022 – 2024	College of Science Faculty Council	EAPS
2022	Undergrad academic adviser search committee	EAPS
2021 – present	Seminar committee	EAPS
2019 – 2020	Large-Scale Dynamics faculty search committee	EAPS
2015 – present	Field committee (chair, Fall 2022 only)	EAPS
2015 – 2018	Undergraduate committee	EAPS
2016 – 2018	Outreach and recruitment committee	EAPS

Thesis committees:

2025 – present	Member	Aniket Dev Roy	M. S. GDSP	EAPS
2024 – present	Chair	Morgan Siers	M. S.	EAPS
2023 – present	Member	Carly Jordan Frank	Ph. D.	EAPS
2023 – present	Chair	Jaime Herriott	M. S.	EAPS
2023 – present	Member	Kristen Axon	Ph. D.	EAPS
2022 – 2024	Chair	Jacob Bruss	M. S.	EAPS
2022 – present	Member	Archana Choudhari	Ph. D.	AAE
2022 – 2024	Member	Hamid Syed	M. S.	EAPS
2020 – 2024	Member	Qin Jiang	Ph. D.	EAPS
2020 – 2022	Member	Geeta Nain	M. S. GDSP	EAPS
2020 – 2021	Member	Connor Belak	M. S.	EAPS
2019 – 2021	Chair	Susan Beveridge	M. S.	EAPS
2019 – 2020	Member	Joan Villalonga	M. S.	TSC, UPC (Spain)
2019 – 2022	Member	Kuan-Yu Lu	Ph. D.	EAPS
2019 – 2021	Member	Marcus Terrell	M. S.	EAPS
2019 – 2021	Member	Funing Li	Ph. D.	EAPS
2018 – 2023	Chair	Allison LaFleur	Ph. D.	EAPS
2017 – 2022	Chair	Milind Sharma	Ph. D.	EAPS
2017 – 2020	Member	Feixiong Huang	Ph. D.	AAE
2016 – 2018	Chair	Allison LaFleur	M. S.	EAPS
2016 – 2018	Chair	Patrick Saunders	M. S.	EAPS
2016 – 2018	Member	Brandon Sells	M. S.	AAE
2016 – 2018	Member	Daniel Dietz	M. S.	EAPS
2016 – 2018	Member	Jessica Bozell	M. S.	EAPS
2017 – 2018	Member	Mingyang Guo	M. S.	EAPS

Undergraduate mentees:

2024 – 2025	Maliyah (Mia) Smith	EAPS
2024 – 2025	Lindsey Peterson	EAPS
2024	Owen Rahman	EAPS
2023 – 2024	Evelyn Girardi	EAPS (Emerging Leaders Science Scholar)
2023 – 2024	Zoey Smith	Lafayette Jefferson High School
2023	Danielle Harr	EAPS
2023	Julian Navarrete Urrego	UREP-C
2023	Marco Monrouzeau	EAPS
2022	McKenna Eichenauer	EAPS
2022 – 2023	Emma Miller	EAPS
2023	Audrey Shirley	EAPS
2022	Ryan Navarre	EAPS
2021 – 2022	Matthew Graber	EAPS
2021	Jefferson Hughes	EAPS
2020 – 2022	Jacob Bruss	EAPS
2019 – 2020	Lauren Warner	EAPS
2019 – 2020	Matthew Asel	EAPS
2019	Grant Dennany	CS
2019	Raychel Nelson	EAPS
2017 – 2018	Derrek Dalman	EAPS
2016 – 2017	Matthew Seedorf	EAPS

Additional service projects:

2022 – present	NWS Partner	NWS WFO Indianapolis, Indiana
2022	Member	UCAR Membership Committee
2022 – present	Member Rep.	UCAR from Purdue University
2016 – 2021	Member	VORTEX-Southeast Physical Sciences Working Group
2015 – 2020	Member	VORTEX-Southeast Scientific Steering Committee

MEDIA ACTIVITIES:

2024	Newstalk (Ireland), FutureProof with Jonathan McCrea, Tornadoes, interview subject.
2024	National Public Radio Consider This podcast, ‘Twister’, ‘Twisters’ and the actual practice of storm chasing , interview subject.
2024	Inverse.com, Can You Stop a Tornado? , interview subject.
2024	BBC Future, What It’s Really Like To Be A Tornado Chaser , interview subject.
2024	Washington Post, This weather phenomenon on Lake Michigan stunned meteorologists Friday , interview about mesoscale vortices in Lake Michigan snow bands
2023	Purdue Exponent, Meteorology Program Expanding by the Year , interview subject.
2023	Knowable Magazine, The Quest to Understand Tornadoes , interview subject.
2023	EAPS: Digital re-release of Intense Vortices Associated with a 1000 MW Fire , an archived film of the 1979 Meteotron experiment featuring two former EAPS professors (Drs. John Snow and Chris Church). Narrated social media trailers describing the significance of the experiment.
2023	Purdue Exponent: Chasing the Storm . Interview about the XTRRA Radar.

- 2022 [WHIN annual meeting video](#), Interview re: impact of WHIN weather network on EAPS 22700 students
- 2022 Ezra Speaking's [How Do Weather Radars Work?](#) Purdue's XTRRA Radar Tour - Part 2 - Dr. Tanamachi (YouTube video)
- 2022 Clear Skies Ahead podcast, "[Lessons in Storm Chasing with Jana Houser and Robin Tanamachi](#)" by the American Meteorological Society. Interview about meteorology careers in academia and storm chasing.
- 2021 [Vox Unexplainable podcast: The tornado problem](#). Interview about tornado science and severe storm dynamics. An [accompanying article](#) was also written by Brian Resnick.
- 2021 Scientific American film ([These Tornado Chasers and Scientists Hunt Real Twisters](#), released in 2024) about tornado science. Prof. Tanamachi was interviewed; her students demonstrated a radiosonde launch.
- 2021 WPTA 25, Interview about how weather radar works.
- 2021 Washington Post: [We're underestimating the destructive power of tornadoes, study shows](#) by Jeremy Deaton. 22 March 2021
- 2020 Raytheon Tech: Three short promotional films [[1](#), [2](#), [3](#)] and an [accompanying article](#) featuring the 2019 field activities of Prof. Tanamachi and her students using Raytheon's "Skyler" radar. September 2020
- 2020 EAPS: [How do you teach when everything changes world-wide at once? EAPS professors share how they managed teaching during a pandemic](#).
- 2020 Accuweather: Interview about the status of the NOAA VORTEX-Southeast program.
- 2020 Weather Channel blog: [How Ted Fujita Revolutionized Tornado Science and Made Flying Safer Despite Many Not Believing Him](#) by Bob Henson.
- 2019 Purdue [Superheroes of Science](#) podcast [Episode #23](#), interview about WRRL research. Released 16 December 2019.
- 2019 Two-page spread in [National Geographic Kid's Ultimate Weatherpedia](#) book regarding severe storms research. Published 21 October 2019.
- 2019 Purdue Exponent, [Student storm chasers return from field research](#). 11 June 2019.
- 2019 [Storm Chase 2019](#), blog by author Mary Kay Carson and photographer Tom Uhlman featuring the SPOTTR group's field trip, to publicize their book *The Tornado Scientist*.
- 2019 WLFI 18, [Students prepare for severe weather field study](#). Broadcast 22 May 2019.
- 2019 Purdue Exponent, [Children's book stars Purdue 'tornado scientist.'](#) 21 March 2019.
- 2019 EAPS: [Dr. Tanamachi featured in science book for young readers](#). 19 March 2019.
- 2019 Featured prominently in a children's non-fiction book entitled *The Tornado Scientist (Scientists in the Field Series)* by Mary Kay Carson and Tom Uhlman, published in March 2019.
- 2019 WLFI 18, [Winter weather: Why bridges freeze faster than roads](#). Broadcast 16 January 2019.
- 2018 Inside EAPS, [New EAPS radar provides research opportunities](#). Fall 2018.
- 2018 WLFI 18, [New weather radar helping improve weather data for northwest Indiana](#). Broadcast 29 October 2018
- 2018 EAPS: [EAPS radar images now viewable by public](#). 17 October 2018.
- 2018 College of Science Insights. [Putting us on the radar](#). Fall 2018.
- 2018 EAPS: [EAPS radar captures tornado on first day of operation](#). 17 August 2018.
- 2018 The Atlantic magazine, [Trump Finally Picks a Science Adviser—And People Are Delighted](#), short-fuse interview regarding selection of Dr. Kelvin Droegemeier for OSTP. 1 August 2018.
- 2018 Shot and posted [time-lapse video](#) of X-band weather radar installation on Wang Hall
- 2018 Smithsonian *Air & Space* Magazine, [Road Trip: On the trail of a tornado](#). April 2018.

- 2018 WLFI 18, [Event teaches children natural disaster safety](#). Featuring DOW educational deployment. Broadcast 10 March 2018.
- 2018 Multiple EAPS items related to Doppler on Wheels educational deployment, including a [news story](#), a [video segment](#), and an [article in Inside EAPS newsletter](#).
- 2018 WISH TV (Indianapolis), [Purdue University to install new weather radar](#). Interview, broadcast 28 February 2018.
- 2017 Purdue University, [EAPS to purchase new weather radar](#), 8 November 2017.
- 2016 Blake Naftel, [Stormchasinghistory.net](#), *Storm Chasing Anthology, Vol. 1*. Independent film about storm chasing / chasers. On-camera interview and furnished video.
- 2016 Fox 59 (Indianapolis), [Purdue University meteorology students study severe weather in the Southeast](#). Interview about Purdue participation in VORTEX-Southeast 2016, broadcast 10 May 2016.
- 2016 The Weather Channel, *Weather Underground*. VORTEX-Southeast media day live interview by Mike Bettes, broadcast 29 February 2016.
- 2015 National Geographic Channel, *Inside the Mega-Twister*. Interview about experiences in the 31 May 2013 El Reno, Oklahoma tornado.
- 2013 The Weather Channel, *Weather Caught on Camera*. Dust devil segment.
- 2013 Los Angeles Times. Online interview regarding the Moore, Oklahoma tornado of 20 May 2013.
- 2011 National Public Radio. Radio interview by John Hamilton about tornado safety.
- 2011 ShocknetRadio.com (defunct), *High Instability*. Two-hour interview about tornado research.
- 2009-10 The Weather Channel, *VORTEX2: Target: Tornado* and *VORTEX2: The Great Tornado Hunt*. Multiple on-camera interviews recorded during the field program (some aired live).
- 2009 The Discovery Channel, *Naked Science: Tornadoes* and *Raging Planet II*.
- 2008 Felix Bassous, *66 Jours dans la Tornado Alley*. French independent film about storm chasing / chasers.