

VITA

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EDUCATION

Ph.D., Adult & Higher Education, Educational Leadership and Policy Studies **2011**
University of Oklahoma

M.S., Atmospheric Science **1992**
University of Wisconsin-Madison

B.A., Cum Laude, Major: Physics; Minor: Mathematics **1990**
Anderson University, Anderson, Indiana

PROFESSIONAL EXPERIENCE

University of Oklahoma **1995–present**
Senior Research Scientist, *Center for Analysis and Prediction of Storms*, 2018–present
Research Scientist, *Center for Analysis and Prediction of Storms*, 2011–2018
Research Associate, *Center for Analysis and Prediction of Storms*, 2007–2011
Research Associate, *Cooperative Institute for Mesoscale Meteorological Studies*, Teamed with NOAA National Severe Storms Laboratory, 1995–2006

University of Wisconsin-Madison
Associate Researcher **1994–1995**
Cooperative Institute for Meteorological Satellite Studies
Teamed w/ NOAA National Environmental Satellite, Data, and Information Service in Camp Springs, MD

Science Applications International Corporation
Atmospheric Scientist **1992–1994**
Teamed with NASA's Langley Research Center, Hampton, VA

PUBLICATIONS

Selected Refereed Publications

* *Indicates undergraduate student author*

- Saunders, M. E., **D. S. LaDue**, J. R. Friedman, A. Marmo, D. Fenske, 2025: The Impact of the Brief Vulnerability Overview Tool on NWS and EM Operations and Communication in the Hazardous Weather Testbed. *Weather and Forecasting*, submitted 12/20/24; in revision.
- LaDue, D. S.**, D. Roueche, F. T. Lombardo, and L. Mayeux, 2024: Linking Survivor Stories to Forensic Engineering: How an Interscience Approach Reveals Opportunities for Reducing Tornado Vulnerability in Residential Structures. *Bulletin of the American Meteorological Society*, **105** (8), E1521–E1541, <https://doi.org/10.1175/BAMS-D-23-0036.1>.
- Friedman, J. R., **D. S. LaDue**, E. H. Hurst, M. E. Saunders, A. N. Marmo, 2024: Making Social Science Actionable for the NWS: The Brief Vulnerability Overview Tool (BVOT). *Bulletin of the*

- American Meteorological Society*, **105** (6), E915–E931, <https://doi.org/10.1175/BAMS-D-23-0042.1>.
- Cross*, R.N., and **D. S. LaDue**, 2021: When uncertainty is certain: a nuanced trust between emergency managers and forecast information in the Southeast U.S. *Weather, Climate, and Society*, **13** (1), 137–146, <https://doi.org/10.1175/WCAS-D-20-0017.1>.
- LaDue, D. S.**, and A. E. Cohen, 2018. Facilitating the self-directed learning efforts of professional meteorologists. *Bulletin of the American Meteorological Society*, 99(12), 2519-2527, <https://doi.org/10.1175/BAMS-D-17-0324.1>.
- Karstens, C. D., J. Correia Jr., **D. S. LaDue**, J. Wolfe, T. C. Meyer, D. R. Harrison, J. L. Cintineo, K. M. Calhoun, T. M. Smith, A. E. Gerard, and L. P. Rothfus, 2018: Development of a human-machine mix for forecasting severe convective events. *Weather and Forecasting*, 33(3), 715-737, <https://doi.org/10.1175/WAF-D-17-0188.1>.
- LaDue, D. S.**, P. L. Heinselman, and J. F. Newman*, 2010: Strengths and limitations of current radar systems for two key stakeholder groups in the southern plains. *Bull. American Meteorological Society*, **91** (7), 899–910, <https://doi.org/10.1175/2009BAMS2830.1>.
- Arndt, D. S., and **D. S. LaDue**, 2008: Applying concepts of adult education to improve weather and climate literacy. *Physical Geography*, **29** (6), 487–499, <https://doi.org/10.2747/0272-3646.29.6.487>.

Selected Books & Book Chapters

- LaDue, D. S.**, P. Daipha, R. Pliske, and R. R. Hoffman 2019: Expertise in weather forecasting. In P. Ward, J. M. Schraagen, J. Gore, and E. Roth (Eds.), *The Oxford Handbook of Expertise: Research and Application* (872-897). United Kingdom: Oxford University Press, 1312pp., <https://doi.org/10.1093/oxfordhb/9780198795872.013.38> (chapter), <https://doi.org/10.1093/oxfordhb/9780198795872.001.0001> (book).
- Hoffman, R. R., **D. S. LaDue**, H. M. Mogil, P. J. Roebber, and J. G. Trafton, 2017: *Minding the Weather: How Expert Forecasters Think*. MIT Press. <http://dx.doi.org/10.2307/j.ctt1t88w2v>

Selected Invited Presentations

- LaDue, D. S.**, 2024: Advancing Forensic Engineering Analyses of Tornadoes with Survivor's First-Hand Accounts. *Inaugural Symposium of the Canadian Severe Storms Laboratory (October 28)*, London, Ontario, Canada.
- LaDue, D. S.**, 2024: How Emergency Managers Receive, Process, and Utilize Severe Weather Forecasts. *Advancing Risk Communication with Decision-Makers for Tropical Cyclones: Learning from Extreme and Unprecedented Weather Events (February 5)*, National Academy of Sciences, Washington, D.C., https://www.nationalacademies.org/event/41375_02-2024_advancing-risk-communication-with-decision-makers-for-extreme-tropical-cyclones.
- LaDue, D. S.**, 2019: Workshop: Effective Facilitation of Forecaster Learning. *CALMet XIII / Eumetcal Conference*, Darmstadt, Germany, EUMETSAT, <https://www.eventsforce.net/eumetsat/5/home>.

Selected, Recent Conference Presentations

* Indicates undergraduate student author

- LaDue, D. S.**, A. N. Marmo, I. N. Jeffries*, Z. C. Johnson*, B. Pollock*, C. B. Hurlocker*, G. Gillenwater*, D. Carroll-Smith, and L. Meccariello, 2025: Development of a Tabletop Method to Refine Products and Improve NWS Impact-Based Decision Support Services. *15th Conference On Transition Of Research To Operations*, New Orleans, LA, American Meteorological Society, Poster, <https://ams.confex.com/ams/105ANNUAL/meetingapp.cgi/Paper/455012>.
- Marmo, A. N., E. H. Hurst, and **D. LaDue**, 2024: Researcher Insights and Recommendations for NWS IWTs: Before, During and After the IWT. *National Weather Association 49th Annual Meeting*, Kansas City, KS, Showcase Presentation 134.
- Johnson*, Z. C., **D. S. LaDue**, I. N. Jeffries*, A. N. Marmo, and D. Carroll-Smith, 2024: Developing an Effective Set of Questions to Extract Partner Needs from NWS IDSS. *19th Symposium on Societal*

- Applications: Policy, Research and Practice*, Baltimore, Maryland, American Meteorological Society, 185, <https://ams.confex.com/ams/104ANNUAL/meetingapp.cgi/Paper/429371>.
- Fenske*, D. M. E. Saunders, and **D. S. LaDue**, 2024: The BVOT Vulnerability Tool's Effect on Information Flow in a Hazardous Weather Testbed Project and its Potential to Support Effective Responses to Severe Weather. *19th Symposium on Societal Applications: Policy, Research and Practice*, Baltimore, Maryland, American Meteorological Society, J13.4, <https://ams.confex.com/ams/104ANNUAL/meetingapp.cgi/Paper/431826>.
- Friedman, J. R., **D. S. LaDue**, E. H. Hurst, M. E. Saunders, and A. N. Marmo, 2023: Multidimensional R2O: Co-producing and Co-designing Research that is Informed by Operational End-Users, *13th Conference on Transition from Research to Operations*, Denver, Colorado, American Meteorological Society, 16A.2, <https://ams.confex.com/ams/103ANNUAL/meetingapp.cgi/Paper/422003>.

Selected Data/Tool Sharing

** Indicates undergraduate student author*

- LaDue, D. S.**, A. Marmo, I. N. Jeffries*, B. C. Pollock*, C. B. Hurlocker*, and Z. C. Johnson*, 2025: Guide for Conducting T-Minus Tabletop Exercises. doi:10.17605/OSF.IO/C7GKW. <https://osf.io/c7gkw>.
- LaDue, D. S.**, and A. Marmo, 2025: After Action Reviews. doi:10.17605/OSF.IO/93MYK. <https://osf.io/93myk>.

PROFESSIONAL MEMBERSHIPS

American Meteorological Society
National Weather Association
American Geophysical Union
Naturalistic Decision Making Association
National Association of Geoscience Teachers
Oklahoma Emergency Management Association