

Joseph T. Ripberger

University of Oklahoma

Curriculum Vitae

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📍 201 Stephenson Pkwy, Suite 2300, Norman, OK 73019
🏠 ou.edu/ipppra
☎ 405-325-5872
✉ jtr@ou.edu
📧 UAcTN5sAAAAJ
🆔 0000-0003-0343-8262

Academic Positions

- Director, OU Institute for Public Policy Research & Analysis (IPPRA) 2026–Present
- Associate Professor of Political Science, University of Oklahoma 2021–Present
- Deputy Director for Research, OU Institute for Public Policy Research & Analysis (IPPRA) 2016–2026
- Assistant Professor of Political Science, University of Oklahoma 2016–2021
- Research Scientist, Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) 2014–2016
- Post-Doctoral Research Associate, CIMMS & OU Center for Applied Social Research 2013–2014

Affiliate Positions

- Fellow, Cooperative Institute for Severe and High-Impact Weather Research and Operations 2021–Present
- Affiliate, South Central Climate Adaptation Science Center 2018–Present
- Special Membership Appointment, OU School of Meteorology 2018–Present
- Affiliate, OU Department of Psychology 2018–Present

Education

- Ph.D., Political Science (Public Policy), University of Oklahoma 2012
- M.A., Political Science (Public Policy), University of Oklahoma 2011
- B.A., Political Science, Miami University 2007

Awards and Recognitions

- **Award for Excellence in Research in the Social Sciences** 2023
Vice President for Research and Partnerships, University of Oklahoma
In Recognition of *outstanding publications with pioneering research impacts that offer broad societal and community-oriented applications for the common good.*
- **Outstanding Early Career Award** 2022
Science and Technological Activities Commission, American Meteorological Society
In Recognition of *an individual who has made significant contributions to the discipline and is on a path to becoming a science leader in the community.*
- **Irene Rothbaum Outstanding Assistant Professor Award** 2021
College of Arts and Sciences, University of Oklahoma
In Recognition of *a model teacher, recognized for dedication, effectiveness and ability to inspire students to high levels of achievement.*

Research and Teaching Interests

Foundations of Public Policy

- Public Policy Theory
- Public Opinion and the Policy Process

- Water Policy
- Public Health Policy

Substantive Policy Domains

- Weather and Climate Policy
- Energy Policy

Research Methods

- Data Visualization
- Survey Research Methodology
- Quantitative Data Analysis

Peer Reviewed Publications

Journal Articles (80)

1. Ter-Mkrtychyan, A., Gupta, K., Jenkins-Smith, H. C., Ripberger, J. T., & Silva, C. L. (2026). Public nuclear preferences in the United States in the context of climate change: Exploring inter- and intra-group variations. *Policy Studies Journal*, e70121.
2. Ostad Rahimi, S., Molder, A. L., Ter-Mkrtychyan, A., Livingston, W., León-Corwin, M., Bitterman, A., Calice, M., Gupta, K., Ripberger, J. T., Wilson, P., & Brossard, D. (2026). Perceived risks, benefits, and support for siting energy infrastructure: Comparing perceptions of carbon capture, nuclear fuel, and large-scale energy facilities. *Journal of Risk Research*, Early Online Release.

3. Ernst, S., Krocak, M., Bitterman, A., Rosen, Z., Fellman, B., Wanless, A., Hogg, D., Ripberger, J. T., & Jenkins-Smith, H. C. (2026). Offering an evidence-based recommendation for improving the storm prediction center's categorical outlook. *Weather, Climate, and Society*, Early Online Release.
4. Lambert, D. M., Diodosio, K., Ripberger, J. T., Lambert, L. H., Jenkins-Smith, H., Silva, C. L., Carlson, J. E., Gupta, K., & Mangalgi, K. (2026). Public support and willingness to pay for sustainable water reuse: The case of municipal water reuse systems in Oklahoma. *Environmental Management*, 76(4), 126.
5. Hogg, D., Wanless, A., Stormer, S., Krocak, M. J., Meister, E., & Ripberger, J. T. (2026). Examining the role of emergency managers as conduits of weather information. *Journal of Operational Meteorology*, 14(4), 33–41.
6. Rosen, Z., Bitterman, A., Ripberger, J. T., Krocak, M. J., Wanless, A., & Meister, E. (2026). The color of weather: Examining associations for color in forecast graphics. *Visual Communication Quarterly*, 1–18.
7. Raper, C., Joshi, O., Zou, C. B., & Ripberger, J. T. (2026). Perceived risks of eastern red cedar encroachment among rural and nonrural residents in Oklahoma. *Rangeland Ecology & Management*, 107, 54–60.
8. Rosen, Z., Bitterman, A., Krocak, M. J., Ripberger, J. T., Melcher, S., Dunham, V., Black, C., & Person, A. (2026). A comprehensive inventory and review of color in meteorological graphics. *Journal of Operational Meteorology*, 14(13), 196–219.
9. Dunham, V., Harvey, L., Krocak, M. J., Bitterman, A., Ripberger, J. T., Allen, E., Ernst, S., Fellman, B. J., & Maciag, T. A. (2026). Examining variations in public information seeking for severe weather events on national weather service social media posts. *Weather, Climate, and Society*, 18(2), 579–593.
10. Fox, A., Rosen, Z., Gupta, K., Ripberger, J. T., Bitterman, A., & Jenkins-Smith, H. C. (2025). Mediated and public perception of hazards, impacts, and actions about wildfire smoke exposure. *Journal of Quantitative Description: Digital Media*, 5.
11. Ripberger, J. T., Gupta, K., Jenkins-Smith, H. C., Rosen, Z., Meister, E., & Fox, A. (2025). Cumulative risk communication: Comparing practitioner perspectives with public interpretation and response. *BMC Public Health*, 25(1), 4289.
12. Gaviria Pabón, A. R., Krocak, M. J., Ripberger, J. T., & Trujillo-Falcón, J. E. (2025). Linguistic challenges in severe weather communication: Comparing English- and Spanish-speaking populations. *Bulletin of the American Meteorological Society*, 106(9), E1940–E1954.
13. Krocak, M. J., Ripberger, J. T., Carr, R., Montz, B., Semmens, K., Maxfield, K., Harvey, L., Bitterman, A., & Rosen, Z. (2025). Introducing the flooding and society survey dataset: Development, implementation, and select findings. *Weather, Climate, and Society*, Early Online Release.
14. Diodosio, K., Ripberger, J. T., Foltz, M., Mangalgi, K., Gupta, K., & Carlson, N. (2025). Is it still the yuck factor? Public support and willingness to pay for municipal wastewater reuse in Oklahoma. *Science of The Total Environment*, 986, 179749.
15. Ernst, S. R., Krocak, M. J., Brooks, H., & Ripberger, J. T. (2025). What defines a relatively normal tornado day? Exploring the relative risk of tornadoes using practically perfect hindcasts for all US tornado days from 1950–2021. *Weather and Forecasting*, 40(6), 977–990.
16. Ernst, S., Allan, J. N., Wehde, W., Ripberger, J. T., Krocak, M., & Rosen, Z. (2025). Modeling the predictors of extreme weather affective experience and its influence on extreme weather decision-making. *Weather, Climate, and Society*, 17(2), 193–203.
17. Ernst, S., Fellman, B. J., Rosen, Z., Krocak, M. J., Jirak, I. L., Ripberger, J. T., & Jenkins-Smith, H. (2025). Investigating how NWS meteorologists, emergency managers, and the public interpret conditional intensity forecasts for severe weather. *Weather and Forecasting*, 40(3), 507–524.
18. Lambert, D. M., Lambert, L. H., Ripberger, J. T., Jenkins-Smith, H., & Silva, C. L. (2025). Public support for producer adoption of soil health practices. *Agriculture and Human Values*, 42, 1045–1061.
19. Gupta, K., Jenkins-Smith, H. C., Ripberger, J. T., Silva, C. L., Fox, A., & Livingston, W. (2025). Americans' views of fusion energy: Implications for sustainable public support. *Fusion Science and Technology*, 81, 1–17.
20. Gupta, K., Ripberger, J. T., Fox, A., Maiello, M., Peach, K., & Jenkins-Smith, H. C. (2025). Risk communication and public response to potential radiation emergencies in New York City. *Risk Analysis*, 45(6), 1237–1253.
21. Krocak, M. J., Ripberger, J. T., Berry, K., Silva, C. L., & Jenkins-Smith, H. C. (2024). The changing weather information landscape: Observations, conjectures, and thoughts about the future. *Bulletin of the American Meteorological Society*, 105(9), E1755–E1761.
22. Lambert, D. M., Ripberger, J. T., Jenkins-Smith, H. C., Silva, C. L., Bowman, W., Long, M. A., Gupta, K., & Fox, A. (2024). Consumer willingness-to-pay for a resilient electrical grid. *Energy Economics*, 131, 107345.
23. Peach, K., Ripberger, J. T., Gupta, K., Fox, A., Jenkins-Smith, H. C., & Silva, C. L. (2024). Seeing lies and laying blame: Partisanship and U.S. Public perceptions about disinformation. *Harvard Kennedy School Misinformation Review*, 5(1).
24. Gupta, K., Jenkins-Smith, H., Ripberger, J. T., Fox, A., & Livingston, W. (2024). Consent-based siting of spent fuel facilities: Evidence from nationwide U.S. surveys. *Nuclear Technology*, 210(9), 1754–1766.

25. Fox, A., Gupta, K., Ripberger, J. T., Livingston, W., & Jenkins-Smith, H. (2024). Exploring public discourse about spent nuclear fuel management on Twitter. *Nuclear Technology*, 210(9), 1694–1705.
26. Buchanan, R., Ripberger, J. T., Fox, A., Carlson, N., Gupta, K., Silva, C. L., & Jenkins-Smith, H. C. (2024). Where there's smoke there's fire: The relationship between perceived and objective wildfire smoke risk. *Environmental Hazards*, 23(4), 1–17.
27. Swedlow, B., Ripberger, J. T., & Yuan, M. (2024). A cultural theory of the culture wars. *Political Psychology*, 45(6), 1123–1156.
28. Ernst, S. R., Ripberger, J. T., Krutz, J., Silva, C. L., Jenkins-Smith, H. C., Wanless, A., Nowicki, D., Klockow-McClain, K. E., Berry, K. L., Obermeier, H. B., & Krocak, M. J. (2024). A tale of two hazards: Studying broadcast meteorologist communication of simultaneous tornado and flash flood (torff) events. *Journal of Operational Meteorology*, 12(1), 1–18.
29. Wanless, A., Stormer, S., Ripberger, J. T., Krocak, M. J., Fox, A., Hogg, D., Jenkins-Smith, H., Silva, C., Robinson, S. E., & Eller, W. S. (2023). The extreme weather and emergency management survey. *Weather, Climate, and Society*, 15(4), 1113–1118.
30. Bitterman, A., Krocak, M. J., Ripberger, J. T., Ernst, S., Trujillo-Falcón, J. E., Gaviria Pabón, A., Silva, C., & Jenkins-Smith, H. (2023). Assessing public interpretation of original and linguist-suggested SPC risk categories in Spanish. *Weather and Forecasting*, 38(7), 1095–1106.
31. Carlson, D. E., Ripberger, J. T., Jenkins-Smith, H. C., Silva, C. L., Carlson, N., Bell, E., & Gupta, K. (2023). The causal impact of local weather anomalies on beliefs about the occurrence of climate change. *Environmental Research Communications*, 5.
32. Long, M. A., León-Corwin, M., Peach, K., Olofsson, K. L., Ripberger, J. T., Gupta, K., Silva, C. L., & Jenkins-Smith, H. (2023). Watts at stake: Concern and willingness-to-pay for electrical grid improvements in the United States. *Energy Research & Social Science*, 102, 103179.
33. Krocak, M. J., Ripberger, J. T., Ernst, S., Silva, C., Jenkins-Smith, H., & Bitterman, A. (2023). Public information priorities across weather hazards and time scales. *Bulletin of the American Meteorological Society*, 104(4), E768–E780.
34. Trujillo-Falcón, J. E., Gaviria Pabón, A. R., Ripberger, J. T., Bitterman, A., Thornton, J. B., Krocak, M. J., Ernst, S. R., Obeso, E. C., & Lipski, J. (2022). ¿Aviso o alerta? Developing effective, inclusive, and consistent watch and warning translations for US Spanish speakers. *Bulletin of the American Meteorological Society*, 103(12), E2791–E2803.
35. Krocak, M. J., Ripberger, J. T., Ernst, S., Silva, C. L., & Jenkins-Smith, H. C. (2022). Exploring the differences in SPC convective outlook interpretation using categorical and numeric information. *Weather and Forecasting*, 37(2), 303–311.
36. Ripberger, J. T., Bell, A., Fox, A., Forney, A., Livingston, W., Gaddie, C., Silva, C., & Jenkins-Smith, H. (2022). Communicating probability information in weather forecasts: Findings and recommendations from a living systematic review of the research literature. *Weather, Climate, and Society*, 14(2), 481–498.
37. Ter-Mkrtychyan, A., Wehde, W., Gupta, K., Jenkins-Smith, H. C., Ripberger, J. T., & Silva, C. L. (2022). Portions in portfolios: Understanding public preferences for electricity production using compositional survey data in the United States. *Energy Research & Social Science*, 91, 102759.
38. Lambert, L. H., Lambert, D. M., & Ripberger, J. T. (2022). Public willingness to pay for farmer adoption of best management practices. *Journal of Agricultural and Applied Economics*, 54(2), 224–241.
39. Ernst, S., Ripberger, J., Krocak, M. J., Jenkins-Smith, H., & Silva, C. (2021). Colorful language: Investigating public interpretation of the Storm Prediction Center convective outlook. *Weather and Forecasting*, 36(5), 1785–1797.
40. Robinson, S. E., Ripberger, J. T., Gupta, K., Ross, J. A., Fox, A. S., Jenkins-Smith, H. C., & Silva, C. L. (2021). The relevance and operations of political trust in the Covid-19 pandemic. *Public Administration Review*, 81(6), 1110–1119.
41. Gupta, K., Ripberger, J. T., Fox, A. S., Jenkins-Smith, H. C., & Silva, C. L. (2021). The future of nuclear energy in India: Evidence from a nationwide survey. *Energy Policy*, 156, 112388.
42. Krocak, M. J., Allan, J. N., Ripberger, J. T., Silva, C. L., & Jenkins-Smith, H. C. (2021). An analysis of tornado warning reception and response across time: Leveraging respondents' confidence and a nocturnal tornado climatology. *Weather and Forecasting*, 36(5), 1649–1660.
43. Wehde, W., Ripberger, J. T., Jenkins-Smith, H., Jones, B. A., Allan, J. N., & Silva, C. L. (2021). Public willingness to pay for continuous and probabilistic hazard information. *Natural Hazards Review*, 22(2), 04021004.
44. Krocak, M. J., Ernst, S., Allan, J. N., Wehde, W., Ripberger, J. T., Silva, C. L., & Jenkins-Smith, H. C. (2020). Thinking outside the polygon: A study of tornado warning perception outside of warning polygon bounds. *Natural Hazards*, 102, 1351–1368.
45. Lenhardt, E. D., Cross, R. N., Krocak, M. J., Ripberger, J. T., Ernst, S. R., Silva, C. L., & Jenkins-Smith, H. C. (2020). How likely is that chance of thunderstorms? A study of how national weather service forecast offices use words of estimative probability and what they mean to the public. *Journal of Operational Meteorology*, 8(5).
46. Allan, J. N., Ripberger, J. T., Wehde, W., Krocak, M., Silva, C. L., & Jenkins-Smith, H. C. (2020). Geographic distributions of extreme weather risk perceptions in the United States. *Risk Analysis*, 40(12), 2498–2508.

47. Ripberger, J. T., Silva, C. L., Jenkins-Smith, H. C., Allan, J., Krocak, M., Wehde, W., & Ernst, S. (2020). Exploring community differences in tornado warning reception, comprehension, and response across the United States. *Bulletin of the American Meteorological Society*, 101(6), E936–E948.
48. Eschliman, C. M., Kuster, E., Ripberger, J. T., & Wootten, A. M. (2020). Preparing to adapt: Are public expectations in line with climate projections? *Climatic Change*, 163(2), 851–871.
49. Carlson, D., Haeder, S., Jenkins-Smith, H., Ripberger, J. T., Silva, C., & Weimer, D. (2020). Monetizing bowser: A contingent valuation of the statistical value of dog life. *Journal of Benefit-Cost Analysis*, 11(1), 131–149.
50. Gupta, K., Ripberger, J. T., Jenkins-Smith, H. C., & Silva, C. L. (2020). Exploring aggregate vs. Relative public trust in administrative agencies that manage spent nuclear fuel in the United States. *Review of Policy Research*, 37(4), 491–510.
51. Polo, J. A., Tanner, E. P., Scholtz, R., Fuhlendorf, S. D., Ripberger, J. T., Silva, C. L., Jenkins-Smith, H. C., & Carlson, N. (2020). Mismatches in prescribed fire awareness and implementation in Oklahoma, USA. *Rangelands*, 42(6), 196–202.
52. Jenkins-Smith, H. C., Ripberger, J. T., Silva, C. L., Carlson, D. E., Gupta, K., Carlson, N., Ter-Mkrtchyan, A., & Dunlap, R. E. (2020). Partisan asymmetry in temporal stability of climate change beliefs. *Nature Climate Change*, 10(4), 322–328.
53. Nowlin, M. C., Gupta, K., & Ripberger, J. T. (2020). Revenue use and public support for a carbon tax. *Environmental Research Letters*, 15(8), 84032.
54. Swedlow, B., Ripberger, J. T., Liu, L., Silva, C. L., Jenkins-Smith, H., & Johnson, B. B. (2020). Construct validity of cultural theory survey measures. *Social Science Quarterly*, 101(6), 2332–2383.
55. Gupta, K., Nowlin, M. C., Ripberger, J. T., Jenkins-Smith, H. C., & Silva, C. L. (2019). Tracking the nuclear 'mood' in the United States: Introducing a long term measure of public opinion about nuclear energy using aggregate survey data. *Energy Policy*, 133, 110888.
56. Ripberger, J. T., Krocak, M. J., Wehde, W. W., Allan, J. N., Silva, C., & Jenkins-Smith, H. (2019). Measuring tornado warning reception, comprehension, and response in the United States. *Weather, Climate, and Society*, 11(4), 863–880.
57. Carlson, D., Ripberger, J. T., Wehde, W., Jenkins-Smith, H., Silva, C., Gupta, K., Jones, B., & Berrens, R. (2019). Benefit-cost analysis, policy impacts, and congressional hearings. *Journal of Benefit-Cost Analysis*, 10(1), 65–94.
58. Jones, B. A., Berrens, R. P., Jenkins-Smith, H., Silva, C., Ripberger, J. T., & Carlson, D. (2019). Inclusive non-market valuation in coupled human and natural systems (chans): A motivating theory. *Journal of Environmental Economics and Policy*, 8(1), 1–16.
59. Krocak, M. J., Ripberger, J. T., Jenkins-Smith, H., & Silva, C. (2019). The impact of hours of advance notice on protective action in response to tornadoes. *Weather, Climate, and Society*, 11(4), 881–888.
60. Ripberger, J. T., Jenkins-Smith, H. C., Silva, C. L., Czajkowski, J., Kunreuther, H., & Simmons, K. M. (2018). Tornado damage mitigation: Homeowner support for enhanced building codes in Oklahoma. *Risk Analysis*, 38(11), 2300–2317.
61. Gupta, K., Ripberger, J. T., & Wehde, W. (2018). Advocacy group messaging on social media: Using the narrative policy framework to study Twitter messages about nuclear energy policy in the United States. *Policy Studies Journal*, 46(1), 119–136.
62. Jones, B. A., Berrens, R. P., Jenkins-Smith, H., Silva, C., Ripberger, J. T., Carlson, D., Gupta, K., & Wehde, W. (2018). In search of an inclusive approach: Measuring non-market values for the effects of complex dam, hydroelectric and river system operations. *Energy Economics*, 69, 225–236.
63. Jones, B. A., Ripberger, J. T., Jenkins-Smith, H., & Silva, C. (2017). Estimating willingness to pay for greenhouse gas emission reductions provided by hydropower using the contingent valuation method. *Energy Policy*, 111, 362–370.
64. Jenkins-Smith, H., Ripberger, J. T., Silva, C., Carlson, N., Gupta, K., Henderson, M., & Goodin, A. (2017). The Oklahoma meso-scale integrated socio-geographic network: A technical overview. *Journal of Atmospheric and Oceanic Technology*, 34(11), 2431–2441.
65. Ripberger, J. T., Jenkins-Smith, H. C., Silva, C. L., Carlson, D. E., Gupta, K., Carlson, N., & Dunlap, R. E. (2017). Bayesian versus politically motivated reasoning in human perception of climate anomalies. *Environmental Research Letters*, 12(11), 114004.
66. Ellis, W. C., Ripberger, J. T., & Swearingen, C. (2017). Public attention and head-to-head campaign fundraising: An examination of US senate elections. *American Review of Politics*, 36(1), 30–53.
67. Jones, B. A., Berrens, R. P., Jenkins-Smith, H. C., Silva, C. L., Carlson, D. E., Ripberger, J. T., Gupta, K., & Carlson, N. (2016). Valuation in the Anthropocene: Exploring options for alternative operations of the Glen Canyon Dam. *Water Resources and Economics*, 14, 13–30.
68. Carlson, D. E., Ripberger, J. T., Jenkins-Smith, H. C., Silva, C. L., Gupta, K., Berrens, R. P., & Jones, B. A. (2016). Contingent valuation and the policymaking process: An application to used nuclear fuel in the United States. *Journal of Benefit-Cost Analysis*, 7(3), 459–487.

69. Conner, T. W., Nowlin, M. C., Rabovsky, T., & Ripberger, J. T. (2016). Cultural theory and managerial values: Examining trust as a motivation for collaboration. *Public Administration*, 94(4), 915–932.
70. Ripberger, J. T., Silva, C. L., Jenkins-Smith, H. C., Carlson, D. E., James, M., & Herron, K. G. (2015). False alarms and missed events: The impact and origins of perceived inaccuracy in tornado warning systems. *Risk Analysis*, 35(1), 44–56.
71. Ripberger, J. T., Silva, C. L., Jenkins-Smith, H. C., & James, M. (2015). The influence of consequence-based messages on public responses to tornado warnings. *Bulletin of the American Meteorological Society*, 96(4), 577–590.
72. Swearingen, C. D., & Ripberger, J. T. (2014). Google insights and US senate elections: Does search traffic provide a valid measure of public attention to political candidates? *Social Science Quarterly*, 95(3), 882–893.
73. Ripberger, J. T., Jenkins-Smith, H. C., Silva, C. L., Carlson, D. E., & Henderson, M. (2014). Social media and severe weather: Do tweets provide a valid indicator of public attention to severe weather risk communication? *Weather, Climate, and Society*, 6(4), 520–530.
74. Ripberger, J. T., Gupta, K., Silva, C. L., & Jenkins-Smith, H. C. (2014). Cultural theory and the measurement of deep core beliefs within the advocacy coalition framework. *Policy Studies Journal*, 42(4), 509–527.
75. Jenkins-Smith, H., Silva, C. L., Gupta, K., & Ripberger, J. T. (2014). Belief system continuity and change in policy advocacy coalitions: Using cultural theory to specify belief systems, coalitions, and sources of change. *Policy Studies Journal*, 42(4), 484–508.
76. Ripberger, J. T., Song, G., Nowlin, M. C., Jones, M. D., & Jenkins-Smith, H. C. (2012). Reconsidering the relationship between cultural theory, political ideology, and political knowledge. *Social Science Quarterly*, 93(3), 713–731.
77. Ripberger, J. T. (2011). Capturing curiosity: Using internet search trends to measure public attentiveness. *Policy Studies Journal*, 39(2), 239–259.
78. Ripberger, J. T., Jenkins-Smith, H. C., & Herron, K. G. (2011). How cultural orientations create shifting national security coalitions on nuclear weapons and terrorist threats in the american public. *PS: Political Science & Politics*, 44(4), 715–719.
79. Ripberger, J. T., Rabovsky, T. M., & Herron, K. G. (2011). Public opinion and nuclear zero: A domestic constraint on ditching the bomb. *Politics & Policy*, 39(6), 891–923.
80. Ripberger, J. T. (2011). Whither civil defense and homeland security in the study of public policy? A look at research on the policy, the public, and the process. *Policy Studies Journal*, 39, 77–91.

Conference Proceedings (3)

1. Banweer, K., Graham, A., Ripberger, J. T., Cesare, N., Nsoesie, E., & Grant, C. (2018). Multi-stage collaborative filtering for tweet geolocation. *Proceedings of the 2nd ACM SIGSPATIAL Workshop on Recommendations for Location-Based Services and Social Networks*, 1–4.
2. Allan, J. N., Ripberger, J. T., Ybarra, V. T., & Cokely, E. T. (2017). Tornado risk literacy: Beliefs, biases, and vulnerability. *13th Bi-Annual Int. Conf. On Naturalistic Decision Making and Uncertainty*, 284–290.
3. Allan, J. N., Ripberger, J. T., Ybarra, V. T., & Cokely, E. T. (2017). The Oklahoma warning awareness scale: A psychometric analysis of a brief self-report survey instrument. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 61, 1203–1207.

Book Chapters (3)

1. Gupta, K., Ripberger, J. T., Jenkins-Smith, H. C., & Olofsson, K. (2025). Coalition opportunity structures and policy change: A comparative analysis of nuclear facility siting efforts in the U.S. In H. C. Jenkins-Smith & C. M. Weible (Eds.), *The Advocacy Coalition Framework* (pp. 129–153). Springer.
2. Gupta, K., Ripberger, J. T., Fox, A., Jenkins-Smith, H., & Silva, C. (2022). Discourse network analysis of nuclear narratives. In M. D. Jones, M. K. McBeth, & E. A. Shanahan (Eds.), *Narratives and the policy process: Applications of the narrative policy framework* (pp. 13–39). Montana State University Library.
3. Gupta, K., Ripberger, J. T., & Collins, S. (2014). The strategic use of policy narratives: Jaitapur and the politics of siting a nuclear power plant in India. In M. D. Jones, E. A. Shanahan, & M. K. McBeth (Eds.), *The science of stories: Applications of the narrative policy framework in public policy analysis* (pp. 89–106). Springer.

Books (1)

1. Robinson, S. E., Gupta, K., Ripberger, J., Ross, J. A., Fox, A., Jenkins-Smith, H., & Silva, C. (2021). *Trust in government agencies in the time of Covid-19*. Cambridge University Press.

Other Publications (2)

1. Ripberger, J. T., Adams, C., Davis, A., & Davis, J. (2020). *Lab guide to quantitative research methods for political science, public policy and public administration*. Bookdown. <https://bookdown.org/ripberjt/labbook/>
2. Jenkins-Smith, H., Ripberger, J. T., Copeland, G. W., Nowlin, M. C., Hughes, T., Fister, A. L., & Wehde, W. (2017). *Quantitative research methods for political science, public policy and public administration (with applications in R)*. University of Oklahoma Libraries. <https://shareok.org/handle/11244/52244>

Research Funding

Lead PI (25 grants, \$9,778,272)

1. Ripberger, J. T. (2026). *Operational Pilot of Integrated Fire Warnings within the National Weather Service*. 2026-2027. MITRE Corporation. \$200,000.
2. Ripberger, J. T., Jones, T., Mattox, M., & Gupta, K. (2025). *Predict, warn, protect: Advancing a unified wildfire warning system for U.S. Public safety and resilience*. 2025-2028. U.S. National Science Foundation. \$2,346,892.
3. Ripberger, J. T. (2025). *Modernizing the Wx Dashboard: Redevelopment and Expansion to Further Support NWS Risk Communication*. 2025-2026. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$97,073.
4. Ripberger, J. T., Jenkins-Smith, H. C., & Furtado, J. (2024). *CHIRRP: Southern plains dry-line research and adaptation center (SPDRAP)*. 2024-2026. U.S. National Science Foundation. \$50,383.
5. Ripberger, J. T. (2024). *Visualizing uncertainty in severe weather forecast graphics*. 2024-2026. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$235,895.
6. Ripberger, J. T. (2024). *Identifying emergency management workflows to improve IDSS in advance of hazardous weather events*. 2024-2025. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$337,988.
7. Ripberger, J. T. (2024). *Continuing research and collaboration on the severe weather survey and dashboard (Y3)*. 2024-2025. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$59,682.
8. Ripberger, J. T. (2024). *Navigating compound flood risks: Enabling a weather-ready nation through longitudinal societal data collection and analysis*. 2024-2029. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$1,347,985.
9. Ripberger, J. T., Krocak, M. J., & Person, A. (2023). *Using colormaps to communicate risk: An inventory and review of NWS products and visualizations with options for the future*. 2023-2025. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$229,836.
10. Ripberger, J. T., & McNair, C. (2023). *Instilling equity as a foundation of local emergency management*. 2023-2024. U.S. Dept. of Homeland Security, Federal Emergency Management Agency. \$9,938.
11. Ripberger, J. T., & Krocak, M. J. (2023). *Statistically exploring the relationship between social vulnerability and tornado warning reception, comprehension, and response*. 2023-2024. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$142,251.
12. Ripberger, J. T. (2023). *Continuing research and collaboration on the severe weather survey and dashboard (Y2)*. 2023-2024. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$58,770.
13. Ripberger, J. T., & Ernst, S. R. (2023). *Evaluating alternative risk communication strategies for the Storm Prediction Center's convective outlook (Y2 & Y3)*. 2023-2025. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$317,375.
14. Ripberger, J. T., Silva, C. L., & Jenkins-Smith, H. C. (2022). *Developing the timeline of information needs for the general public during tornado events*. 2022-2025. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$767,707.
15. Ripberger, J. T. (2022). *Continuing research and collaboration on the severe weather survey and dashboard (Y1)*. 2022-2023. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$48,259.
16. Ripberger, J. T., Krocak, M. J., Silva, C. L., & Ernst, S. R. (2022). *Evaluating alternative risk communication strategies for the Storm Prediction Center's convective outlook (Y1)*. 2022-2023. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$154,470.
17. Ripberger, J. T., Krocak, M. J., Silva, C. L., & Jenkins-Smith, H. C. (2022). *Analysis of longitudinal extreme weather and society data and development of the flood weather survey and dashboard*. 2022-2024. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$642,583.
18. Ripberger, J. T., Krocak, M. J., Silva, C. L., & Gallo, B. (2021). *Enhancing the Storm Prediction Center's convective outlook with continuous probabilities and conditional intensity forecasts*. 2021-2023. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$267,602.
19. Ripberger, J. T., Silva, C. L., Jenkins-Smith, H. C., Robinson, S. E., & Fox, A. S. (2021). *Establishing the extreme weather and emergency management survey*. 2021-2023. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$487,583.
20. Ripberger, J. T., Silva, C. L., & Jenkins-Smith, H. C. (2020). *Communicating forecast uncertainty and probabilistic information: Expanding and embedding social and behavioral data in National Weather Service operations*. 2020-2022. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$478,312.
21. Ripberger, J. T., Silva, C. L., Jenkins-Smith, H. C., & Robinson, S. E. (2020). *Accelerating development of the US extreme weather and society survey series*. 2020-2021. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$569,606.
22. Ripberger, J. T., Silva, C. L., & Jenkins-Smith, H. C. (2019). *Research guided recommendations for communicating uncertainty and probabilities*. 2019-2020. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$150,000.

23. Ripberger, J. T., Silva, C. L., & Jenkins-Smith, H. C. (2019). *There's a chance of what? Assessing numeracy skills of forecasters, partners, and publics to improve to product uncertainty communication, idss, and training*. 2019-2021. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$381,827.
24. Ripberger, J. T., Silva, C. L., & Jenkins-Smith, H. C. (2018). *Social and behavioral measures of NWS performance in severe weather forecasts and warnings*. 2018-2021. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$378,000.
25. Ripberger, J. T., Silva, C. L., Jenkins-Smith, H. C., & Ross, J. D. (2018). *Public perceptions of the impact of extreme weather on wildlife populations*. 2018. University of Oklahoma USO in Applied Aeroecology. \$18,255.

Co-PI (22 grants, \$11,511,793)

1. Gupta, K., Jenkins-Smith, H. C., Ripberger, J. T., & Fox, A. S. (2024). *Consent-based siting social sciences support* 2024. 2024. Pacific Northwest National Laboratory. \$276,936.
2. Carlson, N., Hogg, D., Ripberger, J. T., & Jenkins-Smith, H. C. (2025). *Oklahoma energy security planning* 2025. 2025-2026. State of Oklahoma, Dep. of Commerce. \$275,000.
3. Jenkins-Smith, H. C., Gupta, K., Ripberger, J. T., & León-Corwin, M. (2024). *Establishing a socio-technical observatory for public feedback into the development of fusion energy technologies*. 2024-2028. U.S. Dept. of Energy. \$987,902.
4. Jenkins-Smith, H. C., Gupta, K., & Ripberger, J. T. (2024). *Know your audience: Cumulative climate risk*. 2024-2025. U.S. Environmental Protection Agency. \$249,280.
5. Carlson, N., Hogg, D., Ripberger, J. T., & Jenkins-Smith, H. C. (2024). *Oklahoma state energy security plan*. 2024. State of Oklahoma, Dep. of Commerce. \$300,000.
6. Gupta, K., Jenkins-Smith, H. C., Ripberger, J. T., Fox, A. S., & Silva, C. L. (2023). *Consent-based siting social sciences support*. 2023. Pacific Northwest National Laboratory. \$309,103.
7. Jenkins-Smith, H. C., Ripberger, J. T., & Gupta, K. (2023). *Nuclear deterrence inflation study (extension)*. 2023-2024. Sandia Laboratories. \$20,000.
8. Jenkins-Smith, H. C., Gupta, K., & Ripberger, J. T. (2023). *Nuclear deterrence disruption study*. 2023-2024. Sandia Laboratories. \$310,000.
9. Jenkins-Smith, H. C., Gupta, K., Silva, C. L., & Ripberger, J. T. (2022). *Using social science research to inform consent-based siting programs for spent nuclear fuel management in the US (extension)*. 2022. Sandia Laboratories. \$148,394.
10. Jenkins-Smith, H. C., Gupta, K., Silva, C. L., & Ripberger, J. T. (2022). *Using social science research to inform consent-based siting programs for spent nuclear fuel management in the US*. 2022. Sandia Laboratories. \$74,799.
11. Jenkins-Smith, H. C., Ripberger, J. T., & Gupta, K. (2022). *Nuclear deterrence inflation study*. 2022-2023. Sandia Laboratories. \$300,000.
12. Sadri, A. M., Kanthasamy, M., Habibi, G., & Ripberger, J. T. (2022). *SCC-PG: Trust formation and risk communication in underserved communities during compound hazard events through online and offline social networks (TRUCHE)*. 2022-2023. U.S. National Science Foundation. \$150,000.
13. Gupta, K., Ripberger, J. T., Silva, C. L., & Jenkins-Smith, H. C. (2022). *Integrating socially led co-design into consent-based siting of interim storage facilities*. 2022-2025. U.S. Dept. of Energy. \$2,497,959.
14. Reedy, J., Trujillo-Falcón, J. E., & Ripberger, J. T. (2022). *A weather-ready nation para todos: Evaluating current practices in communicating hazardous weather risks to Spanish speakers*. 2022-2025. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$767,707.
15. Jenkins-Smith, H. C., Gupta, K., Ripberger, J. T., & Silva, C. L. (2021). *Risk communication, know your audience*. 2021-2022. U.S. Environmental Protection Agency. \$240,000.
16. Gupta, K., Ripberger, J. T., Silva, C. L., & Jenkins-Smith, H. C. (2021). *Public views on radiation risks and emergencies in New York City*. 2021-2022. U.S. Department of Health and Human Services, Centers for Disease Control. \$75,000.
17. Jenkins-Smith, H. C., Silva, C. L., Ripberger, J. T., Gupta, K., Fox, A. S., Robinson, S. E., & Ross, J. A. (2020). *Information and implications for protection motivation and action during the covid-19 outbreak*. 2020-2021. U.S. National Science Foundation. \$200,000.
18. Jenkins-Smith, H. C., Silva, C. L., & Ripberger, J. T. (2020). *Socially sustainable solutions for water, carbon, and infrastructure resilience in Oklahoma*. 2020-2025. U.S. National Science Foundation. \$2,497,959.
19. Jenkins-Smith, H. C., Silva, C. L., & Ripberger, J. T. (2019). *Paths forward for nuclear energy: Using a nationwide post-stratified hierarchical model to facilitate matching of new nuclear technologies to receptive host communities*. 2019-2021. U.S. Dept. of Energy. \$390,393.
20. Silva, C. L., Ripberger, J. T., Jenkins-Smith, H. C., & McClain, K. K. (2018). *Communicating forecast uncertainty and probabilistic information*. 2018-2020. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$502,547.
21. Jenkins-Smith, H. C., Gupta, K., Ripberger, J. T., & Silva, C. L. (2016). *Institutional design, policy conflict, and sustainable governance: Measuring public support for consent-based nuclear waste facility siting in the US*. 2016-2017. U.S. National Science Foundation. \$193,614.

22. Silva, C. L., Ripberger, J. T., & Jenkins-Smith, H. C. (2015). *Baseline of public responsiveness to uncertainty in forecasts*. 2015-2017. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$745,200.

Teaching and Mentorship

Courses

- P SC 5940: Survey Research Methods Fall 2025, University of Oklahoma
- P SC 5940: Data Visualization Fall 2024, Fall 2026, University of Oklahoma
- P SC 5923: Introduction to Analysis of Political Data Fall 2016–2020, Fall 2022–2023, University of Oklahoma
- P SC 5933: Intermediate Analysis of Political Data Fall 2016–2020, University of Oklahoma
- P SC 5960: Reading: Interactive Data Visualization Spring 2021, University of Oklahoma
- P SC 5960: Reading: Public Opinion and Policy Change Spring 2018, University of Oklahoma
- P SC 6133: Foundations in Public Policy Spring 2021, University of Oklahoma
- P SC 5170: Analysis of Orgs and Public Policy Spring 2014, University of Oklahoma (Tulsa)
- P SC 3550: Foreign Policy Analysis Summer 2011, University of Oklahoma

Student Advisory, Thesis, and Dissertation Committees

- Cheyenne Black (Ph.D., Political Science, 2026)^{Chair}
- Kaitlin Diodosio (Ph.D., Political Science, In progress)^{Chair}
- Sean Ernst (Ph.D., Meteorology, 2023)^{Co-chair}
- Tristan Kilgore (M.A., Political Science, 2024)^{Chair}
- Will Livingston (Ph.D., Political Science, 2024)^{Chair}
- Clinton McNair (Ph.D., Political Science, 2024)^{Co-chair}
- Rashed Mosharref (Ph.D., Political Science, In progress)^{Chair}
- Riley Worley (M.A., Political Science, 2026)^{Chair}
- Jinan Allan (Ph.D., Psychology, 2021)
- Aparna Bamzai-Dodson (Ph.D., Geography and Environmental Sustainability, 2022)
- Nathan Barron (Ph.D., Political Science, In progress)
- Emily Blumenauer (Ph.D., Meteorology, In progress)
- Junghwa Choi (Ph.D., Political Science, 2020)
- Alex Davis (M.A., Political Science, 2019)
- Maddy Diedrichsen (Ph.D., Meteorology, In progress)
- Benjamin Fellman (Ph.D., Meteorology, In progress)
- Aarika Forney (Ph.D., Political Science, 2024)
- Michael Hosek (Ph.D., Meteorology, In progress)
- Bradley Housh (M.A., Political Science, 2021)
- Alexis Jones (M.A., Political Science, In progress)
- Makenzie Krocak (Ph.D., Meteorology, 2020)
- Matthew Lugibihl (M.P.A., Political Science, 2021)
- Peter McLaughlin (Ph.D., Political Science, 2024)
- Ollie Millin (Ph.D., Meteorology, 2025)
- Peter Olsen (Ph.D., Political Science, In progress)
- Tyler Pardun (Ph.D., Meteorology, In progress)
- Lauren Pounds (Ph.D., Meteorology, In progress)
- John Rackey (Ph.D., Political Science, 2022)
- Ted Rossier (M.A., Political Science, 2017)
- Travis Ruddie (Ph.D., Political Science, 2022)
- Maness Samuel (Ph.D., Political Science, In progress)
- Scott Seidenberger (Ph.D., Data Science and Analytics, In progress)
- Patrick Stubblefield (Ph.D., Adult and Higher Education, In progress)
- Ani Ter-Mkrtchyan (Ph.D., Political Science, 2020)
- Marina Tomer (Ph.D., Geography and Environmental Sustainability, In progress)
- Bill Townsend (Ph.D., Economics, 2025)
- Wesley Wehde (Ph.D., Political Science, 2019)

Conference Presentations

- American Meteorological Society (AMS) 2014 & 2015, 2017–2025
- FEMA Emergency Management Higher Education Symposium 2024
- Society for Risk Analysis (SRA) 2017–2020

- Midwest Political Science Association (MPSA) 2012–2017
- Society Benefit Cost Analysis (SBCA) 2017
- National Weather Association (NWA) 2015
- International Conference on Public Policy (ICPP) 2015
- Association for Public Policy Analysis & Management (APPAM) 2014
- American Political Science Association (APSA) 2012
- Southwestern Political Science Association (SWPSA) 2009

Service

Discipline

- Associate Editor
 - Artificial Intelligence for the Earth Systems
- Grant Review
 - National Science Foundation
 - Weather Program Office, National Oceanic and Atmospheric Administration

Department

- Committee A (Department Leadership Committee), OU Dept. of Political Science 2023–2025
- Political Methodology Committee (Chair), OU Dept. of Political Science 2018–Present
- Graduate Studies Committee, OU Dept. of Political Science 2016–Present
- Public Policy and Public Administration Committee, OU Dept. of Political Science 2016–Present
- Faculty Awards Committee, OU Dept. of Political Science 2019

University

- Academic Scholars Awards Review Committee (OU CAS) 2024–Present
- Significant Impact Research Grant Program Review Committee (OU VPRP) 2024–Present
- Data Science Initiative Grant Review Committee (OU CAS) 2019–Present
- Teaching and Research Support Grant Review Committee (OU CAS) 2019–Present
- Rita H. Lottinville Prize Selection Committee (OU Foundation) 2019
- Fulbright Interview Committee (OU) 2018