

# Joseph T. Ripberger

UNIVERSITY OF OKLAHOMA

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## Academic Positions

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- Assistant Professor of Political Science, University of Oklahoma 2016–Present
- Associate Director, National Institute for Risk & Resilience 2016–Present
- Deputy Director for Research, OU Center for Risk and Crisis Management 2014–Present
- 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

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- 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

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

## Research and Teaching Interests

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- Public Policy Theory
- Public Policy Analysis & Evaluation
- Public Opinion & Survey Research Methodology
- Quantitative Data Analysis
- Weather & Climate Policy
- Water Policy
- Energy Policy

## Peer Reviewed Publications

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### JOURNAL ARTICLES

- Deven E. Carlson, Simon Haeder, Hank C. Jenkins-Smith, Joseph T. Ripberger, Carol L. Silva, and David L. Weimer. *In Press*. “Monetizing Bowser: A Contingent Valuation of the Statistical Value of Dog Life.” *Journal of Benefit-Cost Analysis*.
- Makenzie Krocak, Joseph T. Ripberger, Hank C. Jenkins-Smith, and Carol L. Silva. *In Press*. “The Impact of Hours of Advance Notice on Protective Action in Response to Tornadoes.” *Weather, Climate, and Society*. EOR: <https://doi.org/10.1175/WCAS-D-19-0023.1>
- Joseph T. Ripberger, Makenzie Krocak, Wesley Wehde, Jinan Allan, Hank C. Jenkins-Smith, and Carol L. Silva. *In Press*. “Measuring Tornado Warning Reception, Comprehension, and Response in the United States.” *Weather, Climate, and Society*. EOR: <https://doi.org/10.1175/WCAS-D-19-0015.1>
- Kuhika Gupta, Matthew C. Nowlin, Joseph T. Ripberger, Hank C. Jenkins-Smith, and Carol L. Silva. *In Press*. “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. DOI: <https://doi.org/10.1016/j.enpol.2019.110888>.
- Deven E. Carlson, Joseph T. Ripberger, Wesley Wehde, Hank C. Jenkins-Smith, Carol L. Silva, Kuhika Gupta, Robert P. Berrens, and Benjamin A. Jones. 2019. “Benefit-Cost Analysis, Policy Impacts, and Congressional Hearings.” *Journal of Benefit-Cost Analysis* 10:65-94. DOI: <https://doi.org/10.1017/bca.2018.28>
- Benjamin A. Jones, Robert P. Berrens, Hank C. Jenkins-Smith, Carol L. Silva, Deven E. Carlson, and Joseph T. Ripberger. 2019. “Inclusive Non-Market Valuation in Coupled Human and Natural Systems (CHANS): A Motivating Theory and Application to Hydroelectric Dams.” *Journal of Environmental Economics and Policy* 8:1-16. DOI: <https://doi.org/10.1080/21606544.2018.1479315>

- Joseph T. Ripberger, Hank C. Jenkins-Smith, Carol L. Silva, Jeffrey Czajkowski, Howard Kunreuther, and Kevin M. Simmons. 2018. "Tornado Damage Mitigation: Homeowner Support for Enhanced Building Codes in Oklahoma." *Risk Analysis* 38:2300-2317. DOI: <https://doi.org/10.1111/risa.13131>
- Benjamin A. Jones, Robert P. Berrens, Hank C. Jenkins-Smith, Carol L. Silva, Joseph T. Ripberger, Deven E. Carlson, Kuhika Gupta, Wesley Wehde. 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. DOI: <https://doi.org/10.1016/j.eneco.2017.11.024>
- Kuhika Gupta, Joseph T. Ripberger, and Wesley Wehde. 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* 46:119-136. DOI: <https://doi.org/10.1111/psj.12176>
- Joseph T. Ripberger, Hank C. Jenkins-Smith, Carol L. Silva, Deven E. Carlson, Kuhika Gupta, Nina Carlson, and Riley E. Dunlap. 2017. "Bayesian Versus Politically Motivated Reasoning in Human Perception of Climate Anomalies." *Environmental Research Letters* 12:114004. DOI: <https://doi.org/10.1088/1748-9326/aa8cfc>
- Hank C. Jenkins-Smith, Joseph T. Ripberger, Carol L. Silva, Nina Carlson, Kuhika Gupta, Matthew Henderson, and Amy Goodin. 2017. "The Oklahoma Meso-Scale Integrated Socio-geographic Network: A Technical Overview." *Journal of Atmospheric and Oceanic Technology* 34:2431-2441. DOI: <https://doi.org/10.1175/JTECH-D-17-0088.1>
- Benjamin A. Jones, Joseph T. Ripberger, Hank C. Jenkins-Smith, and Carol L. Silva. 2017. "Estimating Willingness to Pay for Greenhouse Gas Emission Reductions Provided by Glen Canyon Dam Hydropower using the Contingent Valuation Method." *Energy Policy* 111:362-370. DOI: <https://doi.org/10.1016/j.enpol.2017.09.004>
- William C. Ellis, C. Douglas Swearingen, and Joseph T. Ripberger. 2017. "Public Attention and Head-to-Head Campaign Fundraising: An Examination of U.S. Senate Elections." *American Review of Politics* 36:30-53. DOI: <https://doi.org/10.15763/issn.2374-779X.2017.36.1.30-53>
- Deven E. Carlson, Joseph T. Ripberger, Hank C. Jenkins-Smith, Carol L. Silva, Kuhika Gupta, Robert P. Berrens, and Benjamin A. Jones. 2016. "Contingent Valuation and the Policymaking Process: An Application to Used Nuclear Fuel in the United States." *Journal of Benefit-Cost Analysis* 7:459-487.<sup>1</sup> DOI: <https://doi.org/10.1017/bca.2016.19>
- Benjamin A. Jones, Robert P. Berrens, Hank C. Jenkins-Smith, Carol L. Silva, Deven E. Carlson, Joseph T. Ripberger, Kuhika Gupta, and Nina Carlson. 2016. "Valuation in the Anthropocene: Exploring options for alternative operations of the Glen Canyon Dam." *Water Resources and Economics* 14:13-30. DOI: <https://doi.org/10.1016/j.wre.2016.02.003>
- Thaddieus Conner, Matthew Nowlin, Thomas Rabovsky, and Joseph T. Ripberger. 2015. "Cultural Theory and Managerial Values: Examining Trust as a Motivation for Collaboration." *Public Administration* 94:915-932. DOI: <https://doi.org/10.1111/padm.12200>
- Joseph T. Ripberger, Carol L. Silva, Hank C. Jenkins-Smith, and Mark James. 2015. "The Impact of Consequence-Based Messages on Public Responses to Tornado Warnings." *Bulletin of the American Meteorological Society* 96:577-590. DOI: <https://doi.org/10.1175/BAMS-D-13-00213.1>
- Joseph T. Ripberger, Carol L. Silva, Hank C. Jenkins-Smith, Deven E. Carlson, Mark James and Kerry G. Herron. 2015. "False Alarms and Missed Events: The Impact and Origins of Perceived Inaccuracy in Tornado Warning Systems." *Risk Analysis* 35:44-56. DOI: <https://doi.org/10.1111/risa.12262>
- Joseph T. Ripberger, Hank C. Jenkins-Smith, Carol L. Silva, Deven E. Carlson, and Matthew Henderson. 2014. "Social Media and Severe Weather: Do Tweets Provide a Valid Indicator of Public Attention to Tornadoes?" *Weather, Climate, and Society* 6:520-530. DOI: <https://doi.org/10.1175/WCAS-D-13-00028.1>
- Hank C. Jenkins-Smith, Carol L. Silva, Kuhika Gupta, and Joseph T. Ripberger. 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* 42:484-508. DOI: <https://doi.org/10.1111/psj.12071>
- Joseph T. Ripberger, Kuhika Gupta, Carol L. Silva, and Hank C. Jenkins-Smith. 2014. "Cultural Theory and the Measurement of Deep Core Beliefs within the Advocacy Coalition Framework." *Policy Studies Journal* 42:509-527. DOI: <https://doi.org/10.1111/psj.12074>
- C. Douglas Swearingen, and Joseph T. Ripberger. 2014. "Google Insights and U.S. Senate Elections: Does Search Traffic Provide a Valid Measure of Public Attention to Political Candidates?" *Social Science Quarterly* 95:882-893. DOI: <https://doi.org/10.1111/ssqu.12075>
- Joseph T. Ripberger, Geoboo Song, Matthew C. Nowlin, Michael D. Jones, and Hank C. Jenkins-Smith. 2012.

<sup>1</sup>Selected as a best article in the *Journal of Benefit-Cost Analysis* in 2016.

- “Reconsidering the Relationship between Cultural Theory, Political Ideology, and Political Knowledge.” *Social Science Quarterly* 93:713-731. DOI: <https://doi.org/10.1111/j.1540-6237.2012.00884.x>
- Joseph T. Ripberger, Thomas M. Rabovsky, and Kerry G. Herron. 2011. “Public Opinion and Nuclear Zero: A Domestic Constraint on Ditching the Bomb.” *Politics & Policy* 39:879-1108. DOI: <https://doi.org/10.1111/j.1540-6237.2012.00884.x>
  - Joseph T. Ripberger, Hank C. Jenkins-Smith, and Kerry G. Herron. 2011. “How Cultural Orientations Create Shifting National Security Coalitions on Nuclear Weapons and Terrorist Threats in the American Public.” *PS: Political Science & Politics* 44:715-719. DOI: <https://doi.org/10.1111/j.1747-1346.2011.00327.x>
  - Joseph T. Ripberger. 2011. “Capturing Curiosity: Using Internet Search Trends to Measure Public Attentiveness.” *Policy Studies Journal* 39:239-259. DOI: <https://doi.org/10.1111/j.1541-0072.2011.00406.x>
  - Joseph T. Ripberger. 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. DOI: [https://doi.org/10.1111/j.1541-0072.2010.00389\\_6.x](https://doi.org/10.1111/j.1541-0072.2010.00389_6.x)

## CONFERENCE PROCEEDINGS

- Keerti Banweer, Austin Graham, Joseph T. Ripberger, Nina Cesare, Elaine Nsoesie, and Christan Grant. 2018. “Multi-stage Collaborative filtering for Tweet Geolocation.” *In Proceedings of ACM SIGMOD conference (SIGMOD’19)*.
- Jinan Allan, Joseph T. Ripberger, Vincent T. Ybarra, and Edward T. Cokely. 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.
- Jinan Allan, Joseph T. Ripberger, Vincent T. Ybarra, and Edward T. Cokely. 2017. “Tornado Risk Literacy: Beliefs, Biases, and Vulnerability.” *Proceedings of the International Conference on Naturalistic Decision Making*.

## BOOK CHAPTERS

- Kuhika Gupta, Joseph T. Ripberger, and Savannah Collins. 2014. “The Strategic Use of Policy Narratives: Jaitapur and the Politics of Siting a Nuclear Power Plant in India.” In *The Science of Stories: Application of the Narrative Policy Framework*, ed by Michael D. Jones, Liz Shahanan, and Mark McBeth. New York, NY: Palgrave Macmillan.

## Other Publications

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- Hank C. Jenkins-Smith, Joseph T. Ripberger, Gary Copeland, Matthew C. Nowlin, Tyler Hughes, Aaron L. Fisher, and Wesley Wehde. 2017. “Quantitative Research Methods for Political Science, Public Policy and Public Administration: 3rd Edition (With Applications in R).” DOI: <https://shareok.org/handle/11244/52244>
- Joseph T. Ripberger, Cody Adams, Alex Davis, and Josie Davis. 2019. “Lab Guide to Quantitative Research Methods for Political Science, Public Policy and Public Administration.” LINK: <https://bookdown.org/ripberjt/labbook/>

## Working Manuscripts

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- Jinan Allan, Joseph T. Ripberger, Wesley Wehde, Joseph T. Ripberger, Carol L. Silva, and Hank C. Jenkins-Smith. “Geographic Distributions of Extreme Weather Risk Perceptions in the United States.” *Revise & Resubmit*.
- Makenzie Krocak, Sean Ernst, Jinan Allan, Wesley Wehde, Joseph T. Ripberger, Carol L. Silva, and Hank C. Jenkins-Smith. “Thinking Outside the Polygon: A Study of Tornado Warning Reception Outside of Warning Polygon Bounds.” *Under Review*.
- Kuhika Gupta, Joseph T. Ripberger, Hank C. Jenkins-Smith, and Carol L. Silva. “Exploring Aggregate vs. Relative Public Trust in Administrative Agencies that Manage Spent Nuclear Fuel in the United States.” *Under Review*.
- Carley Eschliman, Emma Kuster, Joseph T. Ripberger, and Adrienne Wootten. “Preparing to Adapt: Are Public Expectations in Line with Climate Projections?” *Under Review*.
- Emily Lenhardt, Rachael Cross, Makenzie Krocak, Joseph T. Ripberger, Sean Ernst, Carol L. Silva, Hank C. Jenkins-Smith. “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.” *Under Review*.

## Research Funding

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- *There's a Chance of What? Assessing Numeracy Skills of Forecasters, Partners, and Publics to Improve TC Product Uncertainty Communication, IDSS, and Training.* 2019-2021. PI with Carol L. Silva and Hank C. Jenkins-Smith. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$381,827.
- *Research Guided Recommendations for Communicating Uncertainty and Probabilities.* 2019-2020. PI with Carol L. Silva and Hank C. Jenkins-Smith. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$150,000.
- *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. Co-PI with Hank C. Jenkins-Smith and Carol L. Silva. U.S. Dept. of Energy. \$390,393.
- *Communicating Forecast Uncertainty and Probabilistic Information.* 2018-2020. Co-PI with Carol L. Silva, Hank C. Jenkins-Smith, and Kimberly Klockow McClain. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$502,547.
- *Applying Video AI to the Challenge of Broadcast Data.* 2018-2020. Co-PI with Kimberly Klockow McClain, Kodi Berry, Randy Peppler, Carol L. Silva, and Hank C. Jenkins-Smith. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$462,121.
- *Public Perceptions of the Impact of Extreme Weather on Wildlife Populations.* 2018. PI with Carol L. Silva, Hank C. Jenkins-Smith, and Jeremy D. Ross. University of Oklahoma USO in Applied Aeroecology. \$18,255.
- *Institutional Design, Policy Conflict, and Sustainable Governance: Measuring Public Support for Consent-Based Nuclear Waste Facility Siting in the US.* 2016-2017. Co-PI with Carol L. Silva, Hank C. Jenkins-Smith, and Kuhika Gupta. National Science Foundation. \$193,614.
- *Baseline of Public Responsiveness to Uncertainty in Forecasts.* 2015-2017. Co-PI with Carol L. Silva and Hank C. Jenkins-Smith. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration. \$745,200.

## Teaching and Mentorship

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### COURSES

- |   |   |
|---|---|
| • P Sc 5923: Introduction to Analysis of Political Data | Fall 2015–2019, University of Oklahoma      |
| • P Sc 5933: Intermediate Analysis of Political Data    | Fall 2016–2019, University of Oklahoma      |
| • P Sc 5960: Reading: Public Opinion and Policy Change  | Spring 2018, 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 COMMITTEES

- Jinan Allan (Ph.D., Psychology, In progress)
- Aparna Bamzai-Dodson (Ph.D., Geography and Environmental Sustainability, In progress)
- Keerti Banweer (Ph.D., Computer Science, In progress)
- Junghwa Choi (Ph.D., Political Science, In progress)
- Alex Davis (M.A., Political Science, In progress)
- Aarika Forney (M.A., Political Science, In progress)
- Makenzie Krocak (Ph.D., Meteorology, In progress)
- John Rackey (Ph.D., Political Science, In progress)
- Lauren Reinke (Ph.D., Political Science, In progress)
- Sarina Rhinehart (Ph.D., Political Science, In progress)
- Ted Rossier (M.A., Political Science, 2017)
- Travis Ruddle (Ph.D., Political Science, In progress)
- Patrick Stubblefield (Ph.D., Adult and Higher Education, In progress)
- Ani Ter-Mkrtchyan (Ph.D., Political Science, In progress)
- Wesley Wehde (Ph.D., Political Science, In progress)

## Conference Presentations

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| • American Meteorological Society (AMS)            | 2014 & 2015, 2017–2019 |
| • Society for Risk Analysis (SRA)                  | 2017 & 2018            |
| • 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

## Book Reviews

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- “Terrorism and National Security Reform: How Commissions Can Drive Change During Crises.” 2011. By Jordan Tama (Cambridge University Press, 2011). APSA Legislative Studies Section Newsletter 34:2.
- “Parties, Polarization, and Democracy in the United States.” 2011. By Donald C. Baumer and Howard J. Gold (Paradigm Publishers, 2009). APSA Legislative Studies Section Newsletter 34:1.
- “Treaty Politics and the Rise of Executive Agreements: International Commitments in a System of Shared Powers.” 2010. By Glen S. Krutz and Jeffrey S. Peake (University of Michigan Press, 2009). APSA Legislative Studies Section Newsletter 33:1.

## Policy Reports

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- Carol L. Silva, Joseph T. Ripberger, Hank C. Jenkins-Smith, Makenzie Krocak, and Wesley Wehde. 2018. “Refining the Baseline: Public Reception, Understanding, and Responses to Severe Weather Forecasts and Warnings in the Contiguous United States.” Reference Report, OU Center for Risk and Crisis Management. Access: <http://risk.ou.edu/downloads/news/WX18-Reference-Report.pdf>
- Carol L. Silva, Joseph T. Ripberger, Hank C. Jenkins-Smith, and Makenzie Krocak. 2017. “Establishing a Baseline: Public Reception, Understanding, and Responses to Severe Weather Forecasts and Warnings in the Contiguous United States.” Reference Report, OU Center for Risk and Crisis Management. Access: <http://risk.ou.edu/downloads/news/WX17-Reference-Report.pdf>
- Hank C. Jenkins-Smith, Carol L. Silva, Deven Carlson, Kuhika Gupta, Benjamin Jones, Joseph T. Ripberger, Wesley Wehde, and Bob Berrens. 2016. “Estimating Non-Use Values for Alternative Operations of the Glen Canyon Dam: An Inclusive Value Approach.” Technical Report, OU Center for Energy, Security, and Society. Access: [http://cess.ou.edu/resources/2016093-GCD\\_3B\\_FinalReport.pdf](http://cess.ou.edu/resources/2016093-GCD_3B_FinalReport.pdf)
- Carol L. Silva, Joseph T. Ripberger, Hank C. Jenkins-Smith, Jack Friedman, Paul Spicer, and Peter Lamb. 2015. “Utilization of Real-Time Social Media Data in Severe Weather Events.” Technical Report, OU Center for Risk and Crisis Management. Access: [https://www.researchgate.net/publication/280077141\\_Utilization\\_of\\_Real-Time\\_Social\\_Media\\_Data\\_in\\_Severe\\_Weather\\_Events](https://www.researchgate.net/publication/280077141_Utilization_of_Real-Time_Social_Media_Data_in_Severe_Weather_Events)
- Hank C. Jenkins-Smith, Carol L. Silva, Deven Carlson, Joseph T. Ripberger, Kuhika Gupta, and Nina Carlson. 2014. “Non-Market Values for Alternative Operations of the Glen Canyon Dam: Explorations in Choice and Valuation.” Technical Report, OU Center for Energy, Security, and Society. Access: [https://www.usbr.gov/uc/progact/amp/twg/2015-04-21-twg-meeting/Attach\\_10a.pdf](https://www.usbr.gov/uc/progact/amp/twg/2015-04-21-twg-meeting/Attach_10a.pdf)

## Service

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### DISCIPLINE

- Article & Book Review
  - American Politics Research
  - Bulletin of the American Meteorological Society
  - China Report
  - International Journal of Disaster Risk Reduction
  - Judgment and Decision Making
  - Journal of Flood Risk Management
  - Journal of Public Policy
  - Journal of Operational Meteorology
  - Nature Climate Change
  - Natural Hazards
  - Natural Hazards Review
  - Oxford University Press
  - PLoS ONE
  - Politics & Policy
  - Political Psychology
  - Political Research Quarterly
  - Policy Studies Journal
  - Public Administration
  - Regulation & Governance
  - Risk Analysis
  - Risk, Hazards, & Crisis in Public Policy
  - Social Forces
  - Social Science Quarterly
  - Weather, Climate, & Society
  - Weather & Forecasting
- Grant Review
  - National Science Foundation (Research Traineeship Program)

– National Science Foundation (Decision, Risk and Management Sciences)

#### DEPARTMENT

- Political Methodology Committee 2018–Present, University of Oklahoma
- Graduate Studies Committee 2016–Present, University of Oklahoma
- Public Policy and Public Administration Committee 2016–Present, University of Oklahoma

#### UNIVERSITY

- Fulbright Interview Committee 2018–Present, University of Oklahoma
- Teaching and Research Support Committee (CAS) 2019–Present, University of Oklahoma
- Data Science Initiative Grant Review Committee (CAS) 2019–Present, University of Oklahoma