

JORDAN W. SMITH

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SHORT BIO

Jordan W. Smith is the Director of the Institute of Outdoor Recreation and Tourism and an Assistant Professor in the Department of Environment and Society. His research examines how humans make behavioral and planning adaptations in response to rapidly changing environmental conditions. He uses stated preference experiments, geospatial modeling and immersive virtual environments to understand contingent behaviors and preferences. Jordan joined Utah State in January 2016, having previously been an Assistant Professor of Natural Resource Social Science and GIS at NC State University. Jordan also earned his Ph.D. in Parks, Recreation and Tourism Management with minors in both Geospatial Information Systems and Sociology from NC State. Jordan completed both his master's and undergraduate degrees from Utah State. Off-campus, Jordan is an active cyclist and motorcycle enthusiast.

TOPICAL FOCUS

- Outdoor recreation behavior and environmental change

METHODOLOGICAL FOCUS

- Recreation demand modeling
- Applied social network analysis
- Immersive virtual environment technology

EDUCATION

NC State University	Parks, Recreation and Tourism Management • Minor: Geographic Information Systems • Minor: Sociology	PhD (2011)
Utah State University	Recreation Resources Management	MS (2008)
Utah State University	Landscape Architecture and Environmental Planning • Cum Laude and Departmental Honors	BLA (2006)

PROFESSIONAL APPOINTMENTS

2016 –	Director, Institute of Outdoor Recreation and Tourism Assistant Professor Department of Environment and Society	Utah State University
2013 – 2015	Assistant Professor of Natural Resource Social Science and GIS Department of Parks, Recreation and Tourism Management	NC State University
2012 – 2013	Research Assistant Professor of Human Dimensions Department of Parks, Recreation and Tourism Management	NC State University
2011 – 2012	Visiting Assistant Professor of Human Dimensions Department of Forestry and Natural Resources	Purdue University
2010 – 2011	Cooperative Ecosystems Studies Units Fellow	Dept. of the Interior
2008 – 2011	Hofmann Research Fellow	NC State University
2006 – 2008	Research Assistant	Utah State University
2005 – 2006	Intern, Landscape Architecture	Bureau of Land Management

ADJUNCT APPOINTMENTS

2016 – Adjunct Assistant Professor
Department of Parks, Recreation and Tourism Management

NC State University

CERTIFICATES

Graduate Certificate in Geographic Information Systems

Development of advanced application expertise in geographic information systems earned through the completion of 15 academic credits in geographic information systems and technology at NC State University.

RESEARCH FUNDING

EXTERNAL:	INTERNAL:
AS PI: \$150,081	AS PI: \$43,097
AS CO-PI: \$2,585,306	AS CO-PI: \$898,777
TOTAL: \$2,735,387	TOTAL: \$941,874

EXTERNAL GRANTS, CONTRACTS AND COOPERATIVE AGREEMENTS RECEIVED:

1. **Smith, J. W.**, & Smart, L. S. (2015-2016). Amount: \$9,200. *Technical analysis to support an assessment of environmental indicators in the Albemarle-Pamlico watershed*. Albemarle-Pamlico National Estuary Partnership, NC Department of Environment and Natural Resources.
2. Seekamp, E., **Smith, J. W.**, Booker, M., Peterson, M. N., Nelson, S., Cakir, J., & Irwin, E. R. (2015-2016). Amount: \$134,784. *Connecting landscape adaptation and national cultural resource policy to climate change and cultural resource adaptation decisions*. USGS, Southeast Climate Science Center.
3. Seekamp, E., & **Smith, J. W.** (2014-2016). Amount: \$125,000. *Informing plans for managing resources of Cape Lookout National Seashore under projected climate change, sea level rise, and associated impacts*. National Park Service.
4. Davenport, M. A., Enzler, S., Nieber, J., Wilson, B., Messer, C., Kanazawa, M., Seekamp, E., & **Smith, J. W.** (2014-2016). Amount: \$183,232. *Building climate readiness in nature-based tourism-dependent coastal communities*. Minnesota Sea Grant.
5. Pijanowski, B. C., Shepardson, D., Song, C., Lisle, B., & **Smith, J. W.** (2013-2017). Amount: \$1,995,532. *Collaborative research: Global soundscapes! Full scale development: The big data, big screens, open ears project*. National Science Foundation, Directorate for Education and Human Resources, Advancing Informal STEM Learning (AISL).
6. **Smith, J. W.**, Vatsavai, R., Slocumb, W. S., & Smith, C. T. (2013-2016). Amount: \$140,881. *Needs assessment and guidance to define a clear vision for a geospatial mapping system to service the needs and opportunities of the National Park Service Conservation and Outdoor Recreation Branch and related programs*. National Park Service.
7. Leung, Y. -F., & **Smith, J. W.** (2006-2016). Amount: \$134,258. *Annual information exchange for U.S. state park systems*. National Association of State Park Directors.
8. Moore, R. L., & **Smith, J. W.** (2010-2011). Amount: \$10,000. *Adapting to changing environmental conditions*. National Science Foundation, Division of Social and Economic Sciences, Sociology (Doctoral Dissertation Improvement Grant).
9. Anderson, D. H., & **Smith, J. W.** (2009). Amount: \$2,500. *Pilot test of rapid assessment protocol for assessing social capital in National Forest associated communities*. National Oceanic and Atmospheric Administration.

INTERNAL GRANTS, CONTRACTS AND COOPERATIVE AGREEMENTS RECEIVED:

1. **Smith, J. W.**, Baggio, J., & Null, S. (2016). Amount: \$34,597. *Developing a coupled socio-hydrological agent-based model to examine the demand for and supply of outdoor recreation and tourism opportunities under future climate scenarios*. Utah State University, Office of Research and Graduate Studies, Seed Program to Advance Research Collaborations.
2. Emanuel, R., Seekamp, E., Dasmohapatra, S., Moorman, C., & **Smith, J. W.** (2015-2018). Amount: \$898,777. *Socio-ecological solutions to the salinization of Albemarle-Pamlico Peninsula: An interdisciplinary assessment of land and water resources and community climate readiness*. NC State University, College of Natural Resources, Building Interdisciplinary Strengths in Thematic Areas.

3. **Smith, J. W.** (2014-2015). Amount: \$4,000. *Contingent valuation of the aesthetic and acoustic impacts of multiple ecological disturbances*. NC State University, College of Natural Resources, Faculty Research and Professional Development.
4. **Smith, J. W.**, Devine, H., Floyd, M. F., & Baran, P. (2013-2014). *Advancing the use of digital imagery and data visualization tools in research supporting sustainable land management decisions*. USDA National Institute of Food and Agriculture, McIntyre-Stennis Formula Grant.
5. McAreavy, D.*, & **Smith, J. W.** (2013 – 2014). Amount: \$500. *Use of GPS enabled smartphone technology for inventorying and monitoring resource conditions in urban park settings*. NC State University, College of Natural Resources, Undergraduate Research Grant. *Undergraduate advisee.
6. **Smith, J. W.**, Morais, D. B., Barbieri, C., & Seekamp, E. (2013-2014). Amount: \$4,000. *Contingent valuation of multi-functional agricultural landscapes using virtually simulated environments and online marketplaces*. NC State University, College of Natural Resources, Faculty Research and Professional Development.

GRANTS, CONTRACTS AND COOPERATIVE AGREEMENTS UNDER REVIEW:

1. Monz, C., & **Smith, J. W.** (2016-2018). Amount: \$119,716. *The climate change-human health tradeoff of nature-based recreation*. Utah State University, Utah Agricultural Experiment Station.
2. **Smith, J. W.**, Wilson, B., & Seekamp, E. (2016-2019). Amount: \$499,812. *CNH:RCN The Coupled Outdoor Recreation and Ecohydrologic Systems (CORES) Research Coordination Network*. National Science Foundation, Dynamics of Coupled Natural and Human Systems.

IN ACTIVE DEVELOPMENT

1. **Smith, J. W.** (2017-2018). Amount: \$24,985. *A stakeholder-driven analysis of historical and future demand for recreation in Utah's Wilderness Study Areas*. Bureau of Land Management.
2. **Smith, J. W.** (2015-2017). Amount: \$228,018. *Network effects in climate change adaptation decisions*. National Science Foundation, Directorate for Social, Behavioral & Economic Sciences, Sociology and Decision, Risk and Management Sciences.

UNFUNDED SUBMISSIONS IN REVISION

1. **Smith, J. W.** (2015-2017). Amount: \$375,252. *Adapting to alternative climate futures: The role of informational networks and psychological distance*. National Science Foundation, Directorate for Social, Behavioral & Economic Sciences, Behavioral and Cognitive Sciences, Social Psychology.

EXTENSION FUNDING

EXTERNAL:		INTERNAL:	
AS PI:	\$0	AS PI:	\$0
AS CO-PI:	\$0	AS CO-PI:	\$0
TOTAL:	\$0	TOTAL:	\$0

GRANTS, CONTRACTS, COOPERATIVE AGREEMENTS AND OTHER FUNDING UNDER REVIEW:

1. **Smith, J. W.** (2016). Amount: \$3,969. *Institute of Outdoor Recreation and Tourism Communications Intern.* Utah State University Extension.

SCHOLARSHIP

CITATION INDICES:

CITATIONS: 257 | H-INDEX: 8 | I10-INDEX: 8

PUBLICATIONS:

- PEER REVIEWED ARTICLES (PUBLISHED AND IN PRESS) [IMPACT FACTOR]**
1. Jones, G. J., Edwards, M. B., Bocarro, J. N., Bunds, K. S., & **Smith, J. W.** (2016). An integrative review of sport-based youth development literature. *Sport in Society*. [n/a]
 2. **Smith, J. W.**, Seekamp, E., McCreary, A., Davenport, M. A., Kanazawa, M., Holmberg, K., Wilson, B., & Nieber, J. (2016). Shifting demand for winter outdoor recreation along the North Shore of Lake Superior under variable rates of climate change: A finite-mixture modeling approach. *Ecological Economics*, 123, 1-13. [2.720]
 3. Leung, Y. -F., **Smith, J. W.***, Seekamp, E., Conlon, K., Mayer, J., Guo, T., Walden-Schreiner, C., Adams, B., & Keane, R. (2016). The effects of 2D and 3D imagery and an educational message on perceptions of trail impacts. *Natural Areas Journal*, 36(1), 88-92. *Corresponding author [0.608]
 4. **Smith, J. W.**, Bitsura-Mezzaros, K., & Keane, R. (2016). Differences between conservatives and liberals in information seeking behavior and perceived risks associated with climate-driven changes to local forest conditions. *Weather, Climate, and Society*, 8(1), 43-55. [1.696]
 5. Keane, R., & **Smith, J. W.** (2015). Information presentation and perceived severity of climate change driven coastal morphological change. *Coastal Management*, 43(6), 651-667. [1.013]
 6. **Smith, J. W.** (2015). Immersive virtual environment technology to supplement environmental perception, preference and behavior research: A review with applications. *International Journal of Environmental Research and Public Health*, 12(9), 11486-11505. [2.063]
 7. **Smith, J. W.**, Slocumb, W. S., Smith, C. T., & Matney, J. (2015). A needs assessment process for designing geospatial data management systems within federal agencies. *Journal of Map & Geography Libraries*, 11(2), 226-244. [n/a]
 8. Guo, T., **Smith, J. W.***, Leung, Y. -L., Seekamp, E., & Moore, R. L. (2015). Determinants of responsible hiking behavior: Results from a stated preference experiment. *Environmental Management*, 56(3), 765-776. *Corresponding author [1.648]
 9. Dorning, M. A., **Smith, J. W.**, Shoemaker, D. A., & Meentemeyer, R. K. (2015). Changing decisions in a changing landscape: How might forest owners in an urbanizing region respond to emerging bioenergy markets? *Land Use Policy*, 49, 1-10. [2.631]
 10. Bitsura-Mezzaros, K., McCreary, A., **Smith, J. W.**, Seekamp, E., Davenport, M. A., Nieber, J., Wilson, B., Anderson, D. H., Messer, C., & Kanazawa, M. (2015). Building coastal climate readiness along the North Shore of Lake Superior. *Michigan Journal of Sustainability*, 3, 111-119. [n/a]
 11. **Smith, J. W.**, Leung, Y. -F., Seekamp, E., Walden-Schreiner, C., & Miller, A. (2015). Projected impacts to the production of outdoor recreation opportunities across state park systems in the US due to the adoption of a domestic climate change mitigation policy. *Environmental Science & Policy*. 48, 77-88. [3.514]
 12. Perry-Hill, R., **Smith, J. W.**, Reimer, A., Mase, A. S., Mullendore, N., Mulvaney, K., & Prokopy, L. S. (2014). The influence of basic beliefs and object-specific attitudes on behavioral intentions toward a rare and little-known amphibian. *Wildlife Research*, 41(4), 287-299. [1.381]
 13. **Smith, J. W.**, & Pijanowski, B. C. (2014). Human and policy dimensions of soundscape ecology. *Global Environmental Change: Human and Policy Dimensions*, 28, 63-74. [5.236]

14. Sotomayor, S., Barbieri, C., Aguilar, F. X., Stanis, S. W., & **Smith, J. W.** (2014). Motivations for recreating on farmlands, private forests, and state or national parks. *Environmental Management*, 54(1), 138-150. [1.647]
15. **Smith, J. W.** (2013). Adaptive participation in forest planning contingent upon a hypothetical large-scale forest disturbance. *Forest Science*, 59(6), 637-648. [1.047]
16. **Smith, J. W.** (2013). Information networks in amenity transition communities: A comparative case study. *Human Ecology*, 41(6), 885-903. [1.629]
17. **Smith, J. W.**, & Moore, R. L. (2013). Social-psychological factors influencing recreation demand: Evidence from two recreational rivers. *Environment and Behavior*, 45(7), 821-850. [1.921]
18. Siderelis, C., & **Smith, J. W.*** (2013). Ecological settings and state economies as factor inputs in the provision of outdoor recreation. *Environmental Management*, 52(3), 699-711. *Corresponding author. [1.744]
19. **Smith, J. W.**, Moore, R. L., & Sommerville, M. (2013). Non-sovereign visitor satisfaction: A case study of military training on the Appalachian Trail. *Managing Leisure*, 18(3), 1-13. [n/a]
20. **Smith, J. W.**, & Floyd, M. F. (2013). The urban growth machine, central place theory and access to open space. *City, Culture and Society*, 4(2), 87-98. [n/a]
21. **Smith, J. W.**, Leahy, J. E., Anderson, D. H., & Davenport, M. A. (2013). Community/agency trust and public involvement in resource planning. *Society & Natural Resources*, 26(4), 452-471. [1.117]
22. **Smith, J. W.**, Leahy, J. E., Anderson, D. H., & Davenport, M. A. (2013). Community/agency trust: A measurement instrument. *Society & Natural Resources*, 26(4), 472-477. [1.117]
23. **Smith, J. W.**, Anderson, D. H., Davenport, M. A., & Leahy, J. E. (2013). Community benefits from managed resource areas: An analysis of construct validity. *Journal of Leisure Research*, 45(2), 192-213. [1.000]
24. **Smith, J. W.** (2012). Barriers and bridges to U.S. Forest Service—community relationships: Results from two pilot tests of a rapid social capital assessment protocol. *Forests*, 3(4), 1157-1179. [n/a]
25. Siderelis, C., Moore, R. L., Leung, Y. –F., & **Smith, J. W.** (2012). A nationwide production analysis of state park attendance in the United States. *Journal of Environmental Management*, 99, 18-26. [2.367]
26. **Smith, J. W.**, Siderelis, C., Anderson, D. H., & Moore, R. L. (2012). The effects of place meanings and social capital on desired forest management outcomes: A stated preference experiment. *Landscape and Urban Planning*, 106(2), 207-218. [2.004]
27. **Smith, J. W.**, Moore, R. L., Anderson, D. H., & Siderelis, C. (2012). Community resilience in Southern Appalachia: A theoretical framework and three case studies. *Human Ecology*, 40(3), 341-353. [1.923]
28. **Smith, J. W.**, Anderson, D. H., & Moore, R. L. (2012). Social capital, place meanings, and perceived resilience to climate change. *Rural Sociology*, 77(3), 380-407. [0.896]
29. **Smith, J. W.**, Davenport, M. A., Anderson, D. H., & Leahy, J. E. (2011). Place meanings and desired management outcomes. *Landscape and Urban Planning*, 101(4), 359-370. [2.170]
30. **Smith, J. W.**, & Moore, R. L. (2011). Perceptions of community benefits from two Wild and Scenic Rivers. *Environmental Management*, 47(5), 814-827. [1.408]
31. **Smith, J. W.**, & Burr, S. W. (2011). Environmental attitudes and desired social-psychological benefits of off-highway vehicle users. *Forests*, 2(4), 875-894. [n/a]

32. **Smith, J. W.**, Siderelis, C., & Moore, R. L. (2010). The effects of place attachment, hypothetical site modifications, and use levels on recreation behavior. *Journal of Leisure Research*, 42(4), 621-640. [0.831]
33. **Smith, J. W.**, Burr, S. W., & Reiter, D. K. (2010). Specialization among off-highway vehicle owners and its relationship to environmental worldviews and motivations. *Journal of Park and Recreation Administration*, 28(2), 57-73. [n/a]
34. **Smith, J. W.** (2009). An ethnographic autobiography of a short-term study abroad experience. *Scholarship*, 24, 50-64. [n/a]
35. Jordan, D. J., **Smith, J. W.**, Cox, A., Thompson, T., Jeon, J., Palacios, I., Patterson, A., Peel, J., & Henderson, K. (2009). An exploration of the meanings of parks in Oklahoma. *Journal of Park and Recreation Administration*, 27(2), 17-32. [n/a]
36. Henderson, K., Patterson, A., Palacios, I., Jeon, J., Peel, J., Cox, A., **Smith, J. W.**, & Thompson, T. (2009). The tie that binds? A case study of student perceptions of their recreation-related majors. *Scholarship*, 24, 21-37. [n/a]

PEER REVIEWED ARTICLES (UNDER REVIEW)

1. Kanazawa, M., Wilson, B., Holmberg, K., Davenport, M. A., Seekamp, E., **Smith, J. W.**, & McCreary, A. (2016). Local consequences of climate change: State park visitation on the North Shore of Minnesota.
2. van Zanten, B. T., van Berkel, D. B., Meentemeyer, R. K., **Smith, J. W.**, Tieskens, K. F., & Verburg, P. H. (2016). Continental scale quantification of landscape values using social media data. Manuscript submitted for publication.
3. **Smith, J. W.**, Bitsura-Meszaros, K., Seekamp, E., McCreary, A., & Burroughs, K. (2016). Political ideologies and the objective measurement of climate-related risks to coastal resources. Manuscript submitted for publication.
4. **Smith, J. W.**, & Siderelis, C. (2016). Research note: Temporal trends in the operating efficiencies of U.S. state park systems. Manuscript submitted for publication.
5. **Smith, J. W.**, & Siderelis, C. (2016). The impact of U.S. State Park Systems' utilization on long-run operating costs. Manuscript submitted for publication.
6. Jones, G. J., Edwards, M. B., **Smith, J. W.**, Bocarro, J. N., & Bunds, K. S. (2016). An organizational network analysis of youth sport nonprofit organizations. Manuscript submitted for publication.
7. KC, B., Morais, D. B., Peterson, M. N., Seekamp, E., & **Smith, J. W.** (2016). "We fish in the same hole?": Characterizing networks of wildlife tourism microentrepreneurs. Manuscript submitted for publication.
8. Hunt, L. M., Fenichel, E. P., Fulton, D. C., Mendelsohn, R., **Smith, J. W.**, Tunney, T. D., Lynch, A. J., Paukert, C. P., & Whitney, J. (2016). Identifying pathways for climate change to impact inland recreational fishers. Manuscript submitted for publication.
9. **Smith, J. W.**, Dorning, M. A., Shoemaker, D. A., Méley, A., Dupéy, L. N., & Meentemeyer, R. K. (2016). Payments for carbon storage to alleviate development pressure in a rapidly urbanizing region. Manuscript submitted for publication.
10. Mao, Y., Morais, D., **Smith, J. W.**, Brothers, G., & McHale, M. (2016). Spatial outlier detection of tourism micro-entrepreneurship in North Carolina and its neighbors. Manuscript submitted for publication.

PEER REVIEWED ARTICLES (IN PREPARATION)

1. Lamborn, C., & **Smith, J. W.** (2016). Observational data suggesting user fees exclude low income outdoor recreationists. Manuscript in preparation.
2. **Smith, J. W.**, Smart, L. S., Sanchez, G. M., Van Berkel, D., & Meentemeyer, R. K. (2016). Methodological and analytical frontiers for linking human dimensions theory and methods to landscape-scale agent-based models of dynamic landscape-scale processes. Manuscript in preparation.
3. **Smith, J. W.** (2016). Preferences for landscape heterogeneity and the production of ecosystem services. Manuscript in preparation.
4. van Berkel, D. B., Pickard, B., McCreary, A., **Smith, J. W.**, & Meentemeyer, R. K. (2016). Mapping and quantifying the value of protected areas across the U.S. using zonal travel cost models and social media. Manuscript in preparation.
5. Keane, R., & **Smith, J. W.** (2016). Social media content-platform preferences revealed among visitors to Crater Lake National Park. Manuscript in preparation.
6. **Smith, J. W.**, Smart, L. S., Dorning, M. A., Dupéy, L. N., Méley, A., Picard, B., Koch, J. A., & Meentemeyer, R. K. (2016). Tradeoffs facing landowners in urbanizing regions. Manuscript in preparation.
7. Bitsura-Meszaros, K., **Smith, J. W.**, Seekamp, E., & Davenport, M. (2016). A management plan evaluation tool for assessing tourism and outdoor recreation dependent communities' climate readiness. Manuscript in preparation.
8. Bitsura-Meszaros, K., **Smith, J. W.**, Seekamp, E., & Davenport, M. (2016). Lessons learned from a PGIS based climate change risk assessment process focused on tourism and outdoor recreation dependent communities. Manuscript in preparation.

PEER REVIEWED BOOK CHAPTERS (PUBLISHED AND IN PRESS)

1. Hand, M., Peterson, D. L., Brunswick, N., **Smith, J. W.**, & Brown, C. (2016). Chapter 9: Effects of climate change on outdoor recreation. In J. Halofsky, D. Peterson, & N. Little (Eds.), *Climate change vulnerability assessment for the Intermountain Region of the USDA Forest Service*. (pp. xxx-xxx). Seattle, WA: USDA Forest Service.

OTHER NON-PEER REVIEWED PUBLICATIONS

1. **Smith, J. W.**, & Palacios, I. (2010). Social capital and leisure behavior: Evidence from the United States. In H. J. Gibson & K. Andereck (Eds.), *Abstracts from the 2010 Leisure Research Symposium* (pp. 198-203). Ashburn, VA: National Recreation and Park Association.
2. **Smith, J. W.**, Anderson, D. H., Davenport, M. A., & Leahy, J. E. (2010). Perceived community benefits from recreation resources: From scale development to validation. In C. E. Watts & C. L. Fisher (Eds.), *Proceedings of the 2010 Northeastern Recreation Research Symposium*, Gen. Tech. Rep. NRS-P-94 (pp. 148-154). Newtown Square, PA: USDA Forest Service, Northern Research Station.
3. **Smith, J. W.**, & Moore, R. L. (2010). Place attachment and recreation demand on the West Branch of the Farmington River. In C. E. Watts & C. L. Fisher (Eds.), *Proceedings of the 2010 Northeastern Recreation Research Symposium*, Gen. Tech. Rep. NRS-P-94 (pp. 17-21). Newtown Square, PA: USDA Forest Service, Northern Research Station.
4. Jordan, D. J., **Smith, J. W.**, Cox, A., Thompson, T., Jeon, J., Palacios, I., Patterson, A., Peel, J., & Henderson, K. (2009). An exploration of the meanings of parks in Oklahoma. In B. D. Kivel & H.

Gibson (Eds.), *Abstracts from the 2009 Leisure Research Symposium* (pp. 5-9). Ashburn, VA: National Recreation and Park Association.

5. **Smith, J. W.** (2009). Toward a more complete understanding of sustainable rural community development: Appreciating systems and interactional theories. In E. Seitz, T. P. Wagner & L. Lindenfield (Eds.), *Environmental Communication as a Nexus: Proceedings of the 10th Biennial Conference on Communication and the Environment* (pp. 62-73). Portland, ME: University of Maine, Department of Communications & Journalism.
6. **Smith, J. W.**, Moore, R. L., & Burr, S. W. (2009). Experience use history and its relationship to management actions and satisfaction. In C. E. Watts & C. L. Fisher (Eds.), *Proceedings of the 2009 Northeastern Recreation Research Symposium*, Gen. Tech. Rep. NRS-P-66 (pp. 82-87). Newtown Square, PA: USDA Forest Service, Northern Research Station.
7. **Smith, J. W.** (2008). Off-highway vehicle owners' specialization and its relationship to environmental attitudes. In B. P. McCormick & B. D. Kivel (Eds.), *Abstracts from the 2008 Leisure Research Symposium* (pp. 153-156). Ashburn, VA: National Recreation and Park Association.

TECHNICAL AND PROFESSIONAL REPORTS

1. Leung, Y. -F., **Smith, J. W.**, & Miller, A. (2015). *Statistical report of state park operations: 2013-2014 – Annual Information Exchange for the Period July 1, 2013 through June 30, 2014*. Raleigh, NC: Department of Parks, Recreation and Tourism Management, NC State University.
2. **Smith, J. W.**, & Leung, Y. -F. (2015). *2015 outlook and analysis letter: A report prepared for the National Association of State Park Directors*. Raleigh, NC: Department of Parks, Recreation and Tourism Management, NC State University.
3. **Smith, J. W.**, Slocumb, W. S., & Smith, C. T. (2014). *Needs assessment and guidance to define a clear vision for a geospatial mapping system to service the needs and opportunities of the National Park Service Conservation and Outdoor Recreation Branch and related programs*. Raleigh, NC: Center for Geospatial Analytics, NC State University.
4. **Smith, J. W.**, & Leung, Y. -F. (2014). *2014 outlook and analysis letter: A report prepared for the National Association of State Park Directors*. Raleigh, NC: Department of Parks, Recreation and Tourism Management, NC State University.
5. Leung, Y. -F., **Smith, J. W.**, Miller, A., & Serenari, C. (2014). *Statistical report of state park operations: 2012-2013 – Annual Information Exchange for the Period July 1, 2012 through June 30, 2013*. Raleigh, NC: Department of Parks, Recreation and Tourism Management, NC State University.
6. **Smith, J. W.**, & Moore, R. L. (2011). *Adapting to changing environmental conditions* (Project Outcomes Report for Award ID 1030395). Washington, DC: National Science Foundation.
7. **Smith, J. W.**, & Anderson, D. H. (2009). *Southeastern pilot test of rapid assessment protocol for assessing social capital in National Forest associated communities*. Raleigh, NC: Department of Parks, Recreation and Tourism Management, NC State University.
8. **Smith, J. W.**, Burr, S. W., Reiter, D. K., & Zeitlin, J. M. (2009). *Recreational off-highway vehicle use on public lands within Utah* (Utah Recreation & Tourism Matters: Institute for Outdoor Recreation and Tourism No. IORT/018). Logan, UT: Utah State University.
9. **Smith, J. W.**, Burr, S. W., & Reiter, D. (2008). *Outdoor recreation participation and community recreation needs in Utah* (IORT Professional Report PR2008-02). Logan, UT: Utah State University.

10. Burr, S. W., **Smith, J. W.**, Reiter, D., Jakus, P., & Keith, J. (2008). *Recreational off-highway vehicle use on public lands within Utah* (IORT Professional Report PR2008-01). Logan, UT: Utah State University.
11. **Smith, J. W.** (2006). *Design recommendations guide for built elements within the Santa Clara River Reserve*. St. George, UT: US Department of Interior, Bureau of Land Management, St. George Field Office.

THESIS

Smith, J. W. (2008). *Off-highway vehicle owners' specialization and its relationship to environmental attitudes and motivations*. Logan, UT: Utah State University. Committee: Steven W. Burr (chair), Mark Brunson, F. E. "Fee" Busby, and Paul Jakus

DISSERTATION

Smith, J. W. (2011). *Adapting to changing environmental conditions: Mixed-methods analyses of how social capital and place-based social-psychological dependencies influence climate change resilience in Southern Appalachia*. Raleigh, NC: NC State University. Committee: Roger L. Moore (chair), Dorothy H. Anderson (co-chair), Christos Siderelis, Hugh Devine, and Edward Kick

PRESENTATIONS:

COORDINATED SESSIONS AT NATIONAL AND INTERNATIONAL SYMPOSIA

1. **Smith, J. W.**, Brownlee, M., & Seekamp, E. (2016, June). *Outdoor recreation and climate change: Shifting supply and demand I & II*. Two organized sessions for the International Symposium on Society and Resource Management, Houghton, Michigan.
2. Verbos, R., Brownlee, M., & **Smith, J. W.** (2016, June). *Outdoor recreation and weather*. Organized session for the International Symposium on Society and Resource Management, Houghton, Michigan.
3. **Smith, J. W.**, Slocumb, W. S., & Smith, C. T. (2014, June). *Benchmarking geospatial data management processes used by federal natural resource management agencies*. Organized session for the 2014 CESU Network Biennial National Meeting, Shepherdstown, West Virginia.

CONFERENCE PRESENTATIONS AT NATIONAL AND INTERNATIONAL SYMPOSIA

1. Baran, P., Tabrizian, P., Zhai, Y., Floyd, M. F., & **Smith, J. W.** (2016, October). *Use of IVE in mapping perceived safety in a park*. Poster presented at the National Recreation and Park Association Annual Conference, St. Louis, Missouri.
2. Li, J., Barbieri, C., & **Smith, J. W.** (2016, June). *Social network analysis: An application to agritourism associations*. Paper presented at the Travel and Tourism Research Association's 47th Annual International Conference, Vail, Colorado.
3. Fatorić, S., Seekamp, E., & **Smith, J. W.** (2016, June). *Moving toward optimal climate change adaptation? Structured decision making approach for coastal cultural resource preservation*. Paper presented at the International Symposium on Society and Resource Management, Houghton, Michigan.
4. Birendra, KC, Morais, D. B., Seekamp, E., **Smith, J. W.**, & Peterson, M. N. (2016, June). *Bonding and bridging social capital among wildlife tourism microentrepreneurs: An application of social network analysis*. Paper presented at the International Symposium on Society and Resource Management, Houghton, Michigan.
5. Bitsura-Meszaros, K., **Smith, J. W.**, Seekamp, E., & Davenport, M. A. (2016, June). *Integrating stakeholders from nature-based recreation-dependent communities into a climate change risk*

- assessment through participatory GIS*. Paper presented at the International Symposium on Society and Resource Management, Houghton, Michigan.
6. Henderson, M., Seekamp, E., & **Smith, J. W.** (2016, June). *History under high tides: Community members' perceptions of threatened cultural resources at Cape Lookout National Seashore*. Paper presented at the International Symposium on Society and Resource Management, Houghton, Michigan.
 7. Guo, T., **Smith, J. W.**, & Moore, R. L. (2016, June). *A comparison of SAS, STATA and R in fitting general linear mixed models with implications for contingent behavior experiments in outdoor recreation research*. Poster presented at the International Symposium on Society and Resource Management, Houghton, Michigan.
 8. Guo, T., **Smith, J. W.**, & Moore, R. L. (2016, June). *Values and responsible hiking behaviors among Appalachian Trail long distance hikers*. Paper presented at the International Symposium on Society and Resource Management, Houghton, Michigan.
 9. Baggio, J., & **Smith, J. W.** (2016, June). *Participatory modeling to simulate climate-altered visitation patterns across water-based recreation systems*. Paper presented at the International Symposium on Society and Resource Management, Houghton, Michigan.
 10. Seekamp, E., **Smith, J. W.**, & Davenport, M. (2016, June). *The influence of daily weather conditions on recreationists' responses to contingent trip-taking behavior questions*. Paper presented at the International Symposium on Society and Resource Management, Houghton, Michigan.
 11. **Smith, J. W.**, Wilson, B., & Seekamp, E. (2016, June). *Data and models to investigate coupled outdoor recreation and ecohydrologic systems*. Paper presented at the International Symposium on Society and Resource Management, Houghton, Michigan.
 12. McCreary, A., **Smith, J. W.**, & Seekamp, E. (2016, June). *Parameterizing agent based models of contingent trip-taking behavior with on-site survey data*. Paper presented at the International Symposium on Society and Resource Management, Houghton, Michigan.
 13. Koch, J. A., Dorning, M. A., Zhang, Q., Shashidharan, A., Van Berkel, D., Sanchez, G. M., Ford (Smart), L. S., **Smith, J. W.**, & Meentemeyer, R. K. (2016, May). *A combined ABM-CA approach of the analysis of landowner decisions and peer-influence on development patterns*. Paper presented at the International Society for Ecological Modelling Global Conference 2016, Baltimore, Maryland.
 14. **Smith, J. W.** (2016, April). *Using immersive virtual environments to quantify stakeholder perceptions of, and behavioral responses to, landscape change*. Paper presented at the US Regional Association of the International Association for Landscape Ecology, Asheville, North Carolina.
 15. Sanchez, G. M., Dorning, M. A., Koch, J., Shashidharan, A., Smart, L. S., **Smith, J. W.**, Van Berkel, D., Zhang, Q., & Meentemeyer, R. K. (2016, April). *FUTURES-ABM: An empirically-grounded agent based model to simulate the underlying processes of urban growth*. Paper presented at the US Regional Association of the International Association for Landscape Ecology, Asheville, North Carolina.
 16. Smart, L. S., Dorning, M. A., **Smith, J. W.**, Pickard, B., Dupéy, L. N., Méley, A., & Meentemeyer, R. K. (2016, April). *A Bayesian approach to inform urban growth models with choice experiment data on tradeoffs facing landowners in rapidly urbanizing regions*. Paper presented at the US Regional Association of the International Association for Landscape Ecology, Asheville, North Carolina.

17. Smart, L. S., **Smith, J. W.**, & Meentemeyer, R. K. (2016, March). *Social network effects on land-use patterns in agent-based models of dynamic land change processes*. Paper presented at the Association of American Geographers' Annual Meeting, San Francisco, California.
18. **Smith, J. W.**, Smart, L. S., & McCreary, A. (2016, March). *Hydrating the agents: Integrating the spatial and temporal availability of freshwater resources into agent based models*. Paper presented at the Association of American Geographers' Annual Meeting, San Francisco, California.
19. Sanchez, G. M., Meentemeyer, R. K., **Smith, J. W.**, & Terando, A. (2016, February). *The future of urban growth and water demand across the United States' Southeastern Atlantic Coast*. Paper presented at the Challenges for Natural Resource Economics and Policy Conference (the 5th National Forum on Socioeconomic Research in Coastal Systems), New Orleans, Louisiana.
20. McCreary, A., Seekamp, E., **Smith, J. W.**, & Davenport, M. (2016, February). *Social values & social media: Understanding place meanings in coastal regions through the Instagram lens*. Paper presented at the Social Coast Forum 2016, Charleston, South Carolina.
21. Henderson, M. H., Seekamp, E., & **Smith, J. W.** (2016, February). *Visitor perceptions of cultural resource vulnerability at Cape Lookout National Seashore*. Paper presented at the Social Coast Forum 2016, Charleston, South Carolina.
22. Smart, L. S., & **Smith, J. W.** (2016, February). *An agent-based model for examining the effects of social network structure on coastal land-use patterns*. Paper presented at the Social Coast Forum 2016, Charleston, South Carolina.
23. Fatoric, S., Seekamp, E., **Smith, J. W.**, & Cakir, J. (2016, February). *Application of structured decision making to climate adaptation planning of coastal cultural resources: The case of barrier island Cape Lookout National Seashore*. Paper presented at the Social Coast Forum 2016, Charleston, South Carolina.
24. Sanchez, G. M., Smart, L. S., **Smith, J. W.**, & Meentemeyer, R. K. (2016, February). *The future of urban growth and water availability across the United States' southeastern Atlantic coast*. Paper presented at the 18th International Conference on Development, Urban Space, and Human Rights in America, Rio de Janeiro, Brazil.
25. Baran, P. K., Tabrizian, P., Zhai, Y., **Smith, J. W.**, & Floyd, M. F. (2016, February). *Mapping spatial enclosure and perceived safety in a neighborhood park: An application of immersive virtual environment technology*. Paper presented at the Active Living Research Conference, Hilton Clearwater Beach, Florida.
26. Belica, L., Caldwell, P. V., Mitasova, H., McCarter, J. B., **Smith, J. W.**, & Nelson, S. A. C. (2015, December). *Investigation of the relative effects of insolation, groundwater, and spatial variability in temperature dynamics of two headwater streams*. Poster presented at the American Geophysical Union Fall Meeting, San Francisco, California.
27. McCreary, A., **Smith, J. W.**, Seekamp, E., Davenport, M. A., & Kanazawa, M. (2015, November). *Climate models, place meanings, and risk perceptions: Understanding the influences on nature-based tourism in coastal communities*. Paper presented at the International Congress on Coastal and Marine Tourism, Kailua-Kona, Hawai'i.
28. Bitsura-Meszaros, K., **Smith, J. W.**, & McCreary, A. (2015, November). *Analyzing the effect of political ideology on individuals' perceptions of climate-related risks to coastal recreation using ocular tracking technology*. Paper presented at the International Congress on Coastal and Marine Tourism, Kailua-Kona, Hawai'i.
29. **Smith, J. W.**, Smart, L. S., Sanchez, G. M., & Meentemeyer, R. K. (2015, June). *Methodological and analytical frontiers for agent-based models of spatially dynamic landscape-scale processes*.

Poster presented at the International Association of Landscape Ecology Congress, Portland, Oregon.

30. Smart, L. S., & **Smith, J. W.** (2015, June). *An agent-based model for examining the effects of governance structure on spatially-explicit land- and water-use patterns*. Paper presented at the International Association of Landscape Ecology Congress, Portland, Oregon.
31. Keane, R., & **Smith, J. W.** (2015, June). *Social media and the National Park Service: Visitor usage, preferences, and trusted information sources*. Paper presented at the International Symposium on Society and Resource Management, Charleston, South Carolina.
32. McCreary, A., Seekamp, E., **Smith, J. W.**, Davenport, M. A., & Kanazawa, M. (2015, June). *Uncertain futures for coastal communities: Using climate change models to anticipate shifts in tourism demand*. Paper presented at the International Symposium on Society and Resource Management, Charleston, South Carolina.
33. Katz, K., Duever, B., Davenport, M. A., Seekamp, E., & **Smith, J. W.** (2015, June). *Climate resilience in tourism-dependent communities on Lake Superior's North Shore*. Poster presented at the International Symposium on Society and Resource Management, Charleston, South Carolina.
34. KC, B., Morais, D. B., **Smith, J. W.**, Peterson, M. N., & Seekamp, E. (2015, June). *How social networks shape wildlife tourism micro-entrepreneurs' success: An example from North Carolina's Pamlico Sound*. Paper presented at the International Symposium on Society and Resource Management, Charleston, South Carolina.
35. Smart, L. S., **Smith, J. W.**, & Meentemeyer, R. K. (2015, June). *An agent-based modeling framework for water resource governance: A tool to assess resilience and adaptive capacity in the coastal plain of North Carolina*. Paper presented at the International Symposium on Society and Resource Management, Charleston, South Carolina.
36. Matney, J., **Smith, J. W.**, Slocumb, W. S., & Smith, C. T. (2015, June). *A needs assessment protocol for designing, developing and deploying unified geospatial data management systems within federal agencies*. Paper presented at the International Symposium on Society and Resource Management, Charleston, South Carolina.
37. Bitsura-Meszaros, K., **Smith, J. W.**, & Leung, Y. -F. (2015, June). *Projected impacts to the production of outdoor recreation opportunities across US state park systems due to the adoption of a domestic climate change mitigation policy*. Paper presented at the International Symposium on Society and Resource Management, Charleston, South Carolina.
38. **Smith, J. W.**, Meentemeyer, R. K., Sanchez, G. M., & Smart, L. S. (2015, April). *Methodological and analytical frontiers for agent-based models of spatially dynamic landscape-scale processes*. Paper presented at the Association of American Geographers' Annual Meeting, Chicago, Illinois.
39. Bitsura-Meszaros, K., **Smith, J. W.**, Davenport, M. A., & Seekamp, E. (2015, April). *Assessing the climate readiness of Minnesota's nature-based tourism-dependent North Shore region through a spatial analysis of local resource management plans*. Paper presented at the Association of American Geographers' Annual Meeting, Chicago, Illinois.
40. Keane, R., & **Smith, J. W.** (2015, March). *Internet presence and social media perceptions and usage by visitors to Crater Lake National Park*. Paper presented at the George Wright Society Conference on Parks, Protected Areas, and Cultural Sites, Oakland, California.
41. **Smith, J. W.**, & Leung, Y. -F. (2015, March). *Projected impacts of climate change mitigation on recreation opportunities across US state park systems*. Paper presented at the George Wright Society Conference on Parks, Protected Areas, and Cultural Sites, Oakland, California.

42. Bitsura-Meszaros, K., **Smith, J. W.**, Davenport, M. A., Seekamp, E., & Anderson, D. H. (2015, January). *Building climate readiness in nature-based tourism-dependent communities along the North Shore of Lake Superior: Project overview and development of an adaptation plan evaluation matrix*. Paper presented at the 95th American Meteorological Society Annual Meeting, Phoenix, Arizona.
43. Leung, Y. -F., & **Smith, J. W.** (2014, November). *The value of the visitor monitoring systems at parks and protected areas*. Panel discussant at the IUCN World Parks Congress, Sydney, Australia.
44. **Smith, J. W.** (2014, October). *The use of immersive virtual environments for forest social science and science communication*. Paper presented at the Society of American Foresters' National Convention and the Canadian Institute of Forestry/Institut forestier du Canada Convention, Salt Lake City, Utah.
45. Mao, Y., Morais, D. B., Brothers, G., **Smith, J. W.**, & McHale, M. (2014, June). *Exploring spatial heterogeneity of amenities, tourism and poverty in North Carolina*. Visual presentation at the Travel and Tourism Research Association's 45th Annual International Conference, Brugge, Belgium.
46. **Smith, J. W.** (2014, June). *Effects of ecosystem service provision on agritourism destination preferences*. Paper presented at the International Symposium on Society and Resource Management, Hannover, Germany.
47. **Smith, J. W.**, Shukunobe, M., & Zamani, Z. (2014, May). *Acquisition and manipulation of 360° panoramas for display in immersive virtual environments with applications for natural resource social science*. Poster presented at Environmental Design Research Association 45, New Orleans, Louisiana.
48. Baran, P. Zhai, Y., **Smith, J. W.**, & Floyd, M. F. (2014, May). *Perceived enclosure and spaciousness of park pathways and preference for walking*. Poster presented at Environmental Design Research Association 45, New Orleans, Louisiana.
49. Bitsura-Meszaros, K., & **Smith, J. W.** (2014, April). *Perceived resilience to climate change and political ideology: Evidence from three case studies and a nationwide online marketplace-based survey*. Paper presented at the Association of American Geographers' Annual Meeting, Tampa, Florida.
50. **Smith, J. W.** (2014, February). *Geovisualization technologies for coastal climate science*. Tool demo and job aid roundtable presentation at the Social Coast Forum 2014, Charleston, South Carolina.
51. **Smith, J. W.** (2014, February). *The relationship between information presentation and perceived severity of climate change driven coastal morphological change*. Paper presented at the Social Coast Forum 2014, Charleston, South Carolina.
52. Seekamp, E., Davenport, M. A., & **Smith, J. W.** (2014, February). *An integrated, interdisciplinary and multi-method process for building climate readiness in coastal communities*. Paper presented at the Social Coast Forum 2014, Charleston, South Carolina.
53. **Smith, J. W.**, Prokopy, L. S., Perry-Hill, R., & Mullendore, N. (2013, July). *The effects of affiliation-based influence and shared information sources on rare and little known species conservation behaviors*. Poster presented at the 26th International Congress for Conservation Biology, Baltimore, Maryland.
54. **Smith, J. W.** (2013, June). *A geovisualization-based scenario planning framework for climate change adaptation in small, forest dependent communities*. Poster presented at the International Symposium on Society and Resource Management, Estes Park, Colorado.

55. **Smith, J. W.** (2013, June). *Information networks in amenity-transition communities: A comparative case study of three forest-dependent communities in Southern Appalachia*. Paper presented at the International Symposium on Society and Resource Management, Estes Park, Colorado.
56. **Smith, J. W.**, & Seekamp, E. (2013, March). *A geovisualization-based scenario planning framework for climate change adaptation in small, natural resource dependent, coastal communities*. Poster presented at the Challenges for Natural Resource Economics and Policy Conference (the 4th National Forum on Socioeconomic Research in Coastal Systems), New Orleans, Louisiana.
57. **Smith, J. W.**, Anderson, D. H., & Moore, R. L. (2012, July). *Social capital, place meanings and perceived resilience to climate change*. Paper presented at the 75th Annual Meeting of the Rural Sociological Society, Chicago, Illinois.
58. Fish, T. E., Moisey, R. N., Jordan, S. A., Gates, B. J., & **Smith, J. W.** (2012, June). *Learning from the past, looking to the future: CESU Network national program evaluation*. Paper presented at the International Symposium on Society and Resource Management, Edmonton, Alberta, Canada.
59. **Smith, J. W.**, & Smith, H. M. (2012, February). *Community resilience in Southern Appalachia: A theoretical framework and three case studies*. Paper presented at the Association of American Geographers' Annual Meeting, New York, New York.
60. **Smith, J. W.**, Leahy, J. E., Anderson, D. H., & Davenport, M. A. (2011, June). *Recreancy and resource management: A mixed-methods analysis of trust and civic action*. Paper presented at the International Symposium on Society and Resource Management, Madison, Wisconsin.
61. **Smith, J. W.** (2011, April). *Growth in the American South: Rethinking the urban/rural divide and the causal mechanisms of economic development*. Paper presented at the Association of American Geographers' Annual Meeting, Seattle, Washington.
62. Moore, R. L., & **Smith, J. W.** (2010, October). *Military training on the Appalachian Trail: Participant attitudes and perceptions*. Paper presented at the Society of American Foresters' National Convention, Albuquerque, New Mexico.
63. **Smith, J. W.**, & Palacios, I. (2010, October). *Social capital and leisure behavior: Evidence from the United States*. Paper presented at the Leisure Research Symposium, Minneapolis, Minnesota.
64. **Smith, J. W.**, & Moore, R. L. (2010, September). *Demand for fly-fishing on the Green River: Incorporating place attachment and site perceptions into a travel-cost analysis*. Paper presented at the Pathways to Success: Integrating Human Dimensions into Fisheries and Wildlife Management Conference, Estes Park, Colorado.
65. **Smith, J. W.** (2010, August). *Growth in the American South: Rethinking the urban/rural divide and the causal mechanisms of economic development*. Paper presented at the Annual Meeting of the American Sociological Association and the 73rd Annual Meeting of the Rural Sociological Society, Atlanta, Georgia.
66. **Smith, J. W.**, Siderelis, C., & Moore, R. L. (2010, June). *Social-psychological factors influencing recreation demand: Evidence from two recreational rivers*. Paper presented at the International Symposium on Society and Resource Management, Corpus Christi, Texas.
67. **Smith, J. W.** (2010, June). *The green in the growth machine: Laissez-faire racism, central place theory, and access to open space*. Poster presented at the International Symposium on Society and Resource Management, Corpus Christi, Texas.
68. **Smith, J. W.**, Anderson, D. H., & Moore, R. L. (2010, May). *The role of social capital in coastal communities' resilience to climate change*. Paper presented at the Challenges for Natural Resource

Economics and Policy Conference (the 3rd National Forum on Socioeconomic Research in Coastal Systems), New Orleans, Louisiana.

69. Jordan, D. J., **Smith, J. W.**, Cox, A., Thompson, T., Jeon, J., Palacios, I., Patterson, A., Peel, J., & Henderson, K. (2009, October). *An exploration of the meanings of parks in Oklahoma*. Paper presented at the Leisure Research Symposium, Salt Lake City, Utah.
70. **Smith, J. W.**, Siderelis, C., Moore, R. L., & Fletcher, F. (2009, July). *The effects of place attachment, hypothetical site modifications, and use levels on recreation behavior*. Paper presented at the International Symposium on Society and Resource Management, Vienna, Austria.
71. **Smith, J. W.** (2009, June). *Toward a more complete understanding of sustainable rural community development: Appreciating systems and interactional theories*. Paper presented at the Conference on Communication and the Environment, Portland, Maine.
72. **Smith, J. W.** (2008, October). *Off-highway vehicle owners' specialization and its relationship to environmental attitudes*. Paper presented at the Leisure Research Symposium, Baltimore, Maryland.
73. **Smith, J. W.** (2008, June). *Environmental attitudes, off-highway vehicle use, and social misconceptions*. Paper presented at the International Symposium on Society and Resource Management, Burlington, Vermont.
74. **Smith, J. W.** (2008, May). *Off-highway vehicle owners' specialization and its relationship to environmental attitudes*. Paper presented at the Graduate Student Leisure Research Symposium, Waterloo, Ontario, Canada.

CONFERENCE PRESENTATIONS AT STATE AND REGIONAL SYMPOSIA

1. Keane, R., & **Smith, J. W.** (2016, March). *Social media best practices for outdoor recreation managers: Evidence from a case study at Crater Lake National Park*. Paper presented at the Southeastern Recreation Research Symposium, Asheville, North Carolina.
2. Wilson, B., Holmberg, K., Nieber, J., Davenport, M. A., **Smith, J. W.**, Seekamp, E., McCreary, A., & Kanazawa, M. (2015, October). *Climate change in Minnesota's North Shore*. Poster presented at the University of Minnesota's Department of Bioproducts and Biosystems Engineering Annual Fall Showcase, St. Paul, Minnesota.
3. Matney, J., Slocumb, W. S., **Smith, J. W.**, & Smith, C. T. (2015, September). *A geospatial database and web-based mapping application for programs within the National Park Services' Conservation and Outdoor Recreation branch*. Paper presented at the Piedmont-South Atlantic Coast Cooperative Ecosystem Studies Units Annual Meeting, Athens, Georgia.
4. Sanchez, G. M., Smart, L. S., **Smith, J. W.**, Van Berkel, D., & Meentemeyer, R. K. (2015, April). *Frontiers for linking human dimensions theory and methods to land system agent-based models*. Poster presented at the NC State University Global Change Symposium, Raleigh, North Carolina.
5. Keane, R., & **Smith, J. W.** (2015, March). *Online information sources and social media usage by visitors to Crater Lake National Park*. Poster presented at the 10th Annual NC State University Graduate Student Research Symposium, Raleigh, North Carolina.
6. Morais, D. B., **Smith, J. W.**, Barbieri, C., & Nazariadli, S. (2015, March). *Does authenticity matter? Comparing potential tourists' assessment of highly authentic and highly appealing agricultural landscape features*. Poster presented at the Southeastern Recreation Research Symposium, Asheville, North Carolina.
7. Bitsura-Meszaros, K., **Smith, J. W.**, McCreary, A., Burroughs, K., & Keane, R. (2015, March). *The effect of political ideology on individuals' perceptions of climate-related risks to coastal recreation*

- resources: Results from an eye tracking experiment.* Paper presented at the Southeastern Recreation Research Symposium, Asheville, North Carolina.
8. KC, B., Morais, D. B., **Smith, J. W.**, Seekamp, E., & Peterson, M. N. (2015, March). *Examining social networking and social capital among wildlife tourism micro-entrepreneurs from North Carolina's Pamlico Sound region.* Paper presented at the Southeastern Recreation Research Symposium, Asheville, North Carolina.
 9. McCreary, A., Keane, R., Guo, T., Seekamp, E., **Smith, J. W.**, & Moore, R. L. (2015, March). *Challenges, limitations and opportunities in survey design.* Poster presented at the Southeastern Recreation Research Symposium, Asheville, North Carolina.
 10. McCreary, A., Seekamp, E., **Smith, J. W.**, Kanazawa, M., & Davenport, M. A. (2015, March). *Projecting visitor responses to climate change: Winter recreation and tourism on Minnesota's North Shore.* Paper presented at the Southeastern Recreation Research Symposium, Asheville, North Carolina.
 11. Tsai, W. -L., Shedd, J., Smith, C. T., Miller, A., Walden-Schreiner, C., Leung, Y. -L., & **Smith, J. W.** (2014, October). *ArcGIS Online and Collector for ArcGIS mobile app.* Paper presented at the North Carolina Coastal Reserve and National Estuarine Research Reserve's Using Technology in the Field for Natural Resources Protection Workshop, Wilmington, North Carolina.
 12. Mao, Y., Morais, D. B., Brothers, G., **Smith, J. W.**, & McHale, M. (2014, March). *Spatial analysis of nature-based tourism and poverty in North Carolina.* Paper presented at the Southeastern Recreation Research Symposium, Asheville, North Carolina.
 13. Conlon, K., Mayer, J., Adams, B., Walden-Schreiner, C., Crouse, E., Guo, T., Leung, Y. -F., **Smith, J. W.**, & Seekamp, E. (2014, March). *Comparing perceptions of trail impacts using 2-D and 3-D imagery.* Paper presented at the Southeastern Recreation Research Symposium, Asheville, North Carolina.
 14. Mayer, J. E., Seekamp, E. L., **Smith, J. W.**, Casper, J. M., & Blank, G. B. (2014, March). *Predicting aquatic invasive species prevention: An examination of organisms-in-trade hobbyists' behaviors in the Great Lakes Region.* Poster presented at the 9th Annual NC State University Graduate Student Research Symposium, Raleigh, North Carolina.
 15. **Smith, J. W.**, Shukunobe, M., & Zamani, Z. (2013, September). *Acquisition and manipulation of 360° panoramas for display in immersive virtual environments with applications for natural resource social science.* Poster presented at the NC State – College of Natural Resources Open House, Raleigh, North Carolina.
 16. **Smith, J. W.**, & Siderelis, C. (2012, August). *Adaptive participation in forest planning contingent upon hypothetical climate change impacts: A field-based stated choice experiment.* Paper presented at Camp Resources XIX, Wrightsville Beach, North Carolina.
 17. Fish, T. E., Moisey, R. N., Jordan, S. A., Gates, B. J., & **Smith, J. W.** (2012, April) *Developing a typology for federal collaborative conservation projects: CESU Network program evaluation results, 1999-2011.* Paper presented at the Northeastern Recreation Research Symposium, Cooperstown, New York.
 18. **Smith, J. W.**, Moore, R. L., & Anderson, D. H. (2012, February). *Social capital, place meanings and perceived resilience to climate change.* Paper presented at the Annual Meeting of the Eastern Sociological Society, New York, New York.
 19. Smith, H. M., **Smith, J. W.**, Leahy, J. E., & Lindenfeld, L. (2011, April). *Merging knowledge to action theory with woody bioenergy research development processes.* Paper presented at the Woody Biomass Energy Research Symposium for the Northern Forest, Burlington, Vermont.

20. **Smith, J. W.**, Leahy, J. E., Anderson, D. H., & Davenport, M. A. (2011, April). *Recreancy and resource management: A mixed-methods analysis of trust and civic action*. Paper presented at North Carolina State University's 2nd annual Communication, Rhetoric, and Digital Media Research Symposium, Raleigh, North Carolina.
21. **Smith, J. W.**, Anderson, D. H., Davenport, M. A., Leahy, J. E. (2010, April). *Perceived community benefits from recreation resources: From scale development to validation*. Paper presented at the Northeastern Recreation Research Symposium, Bolton Landing, New York.
22. **Smith, J. W.**, & Moore, R. L. (2010, April). *Place attachment and recreation demand on the West Branch of the Farmington River*. Paper presented at the Northeastern Recreation Research Symposium, Bolton Landing, New York.
23. **Smith, J. W.** (2010, March). *The green in the growth machine: Laissez-faire racism, central place theory, and access to open space*. Poster presented at the 5th Annual NC State University Graduate Student Research Symposium, Raleigh, North Carolina.
24. **Smith, J. W.**, Moore, R. L., & Siderelis, C. (2010, February). *The effects of motivations, river conditions, and hypothetical permitting procedures on recreation behavior*. Paper presented at the Southeastern Recreation Research Symposium, Greenville, South Carolina.
25. **Smith, J. W.**, & Anderson, D. H. (2010, February). *Social capital in National Forest associated communities: A case study of Louisville, Mississippi*. Paper presented at the Southeastern Recreation Research Symposium, Greenville, South Carolina.
26. **Smith, J. W.**, Moore, R. L., & Burr, S. W. (2009, March). *Experience use history and its relationship to management actions and satisfaction*. Paper presented at the Northeastern Recreation Research Symposium, Bolton Landing, New York.
27. **Smith, J. W.** (2009, March). *The effects of green spaces on property values, the tax base, and tax revenues in Raleigh, North Carolina*. Poster accepted for presentation at the NC State University Graduate Student Symposium, Raleigh, North Carolina.
28. **Smith, J. W.** (2009, February). *The effects of green spaces on property values, the tax base, and tax revenues in Raleigh, North Carolina*. Paper presented at the Southeastern Recreation Research Symposium, Athens, Georgia.
29. Burr, S. W., **Smith, J. W.**, Reiter, D. K., Jakus, P., & Keith, J. (2008, May). *Recreational off-highway vehicle use on public lands within Utah*. Paper presented at the Utah Tourism Conference's Tourism Research Workshop, Salt Lake City, Utah.
30. Burr, S. W., **Smith, J. W.**, Reiter, D. K., Jakus, P., & Keith, J. (2008, April). *Recreational off-highway vehicle use on public lands within Utah*. Paper presented at the Utah Association of Counties' Annual Meeting, Salt Lake City, Utah.
31. **Smith, J. W.** (2008, April). *Environmental attitudes, off-highway vehicle use, and social misconceptions*. Paper presented at the Intermountain Graduate Student Research Symposium, Logan, Utah.

INVITED PRESENTATIONS

1. **Smith, J. W.**, Slocumb, W. S., & Smith, C. T. (2014, November). *Developing a geospatial platform for the National Park Service's Conservation and Outdoor Recreation Branch*. Paper presented for the Center for Geospatial Analytics' Geospatial Analytics and Modeling discussion forum, Raleigh, North Carolina.

2. **Smith, J. W.** (2014, July). *Studying the human dimensions of soundscape ecology with immersive virtual environment technology*. Paper presented for the NSF: Research Coordination Network funded Global Sustainable Soundscapes Network Workshop, Ogunquit, Maine.
3. **Smith, J. W.** (2014, April). *Processes and prospects for gauging the psychological and economic dimensions of soundscape components with immersive virtual environment technology*. Paper presented for the Sound/Science/Environment Workshop on Soundscape Studies, State College, Pennsylvania.
4. **Smith, J. W.** (2013, September). *Incorporating contingent decision-making behavior in agent-based models of environmental change*. Paper presented for the Center for Earth Observation's Geospatial Analytics and Modeling discussion forum, Raleigh, North Carolina.
5. **Smith, J. W.** (2013, July). *Social dimensions of soundscape science research*. Paper presented for the NSF: Research Coordination Network funded Global Sustainable Soundscapes Network Workshop, Oracle, Arizona.
6. **Smith, J. W.** (2012, October). *On-site sampling for visitor behavior studies: Fundamentals and distinctions between off-site sampling approaches*. Virtual presentation for the University of Minnesota's Fall 2012 *Visitor Behavior Analysis* course, Minneapolis, Minnesota.
7. **Smith, J. W.** (2012, April). *Adaptive engagement in forest planning contingent upon hypothetical climate change impacts*. Paper presented for Purdue University's Department of Forestry and Natural Resources Graduate Student Seminar Series, West Lafayette, Indiana.

INVITED PANELIST

1. **Smith, J. W.** (2014, April). *Legitimacy of elected versus appointed officials and institutions*. Themed roundtable discussion at the 62nd Annual Nebraska Symposium on Motivation – *Cooperation and compliance with authority: The role of institutional trust*, Lincoln, Nebraska.

WORKSHOPS:

INVITED WORKSHOP PARTICIPANT

1. 2015, October 8-9. *Research Network for Water Solutions interdisciplinary leadership summit*. NC State University, Wilmington, NC.
2. 2015, June 1-5. *Expert workshop: North American fish and climate change*. USGS Northern Rocky Mountain Science Center, Bozeman, MT.
3. 2014, July 16-19. *Global Sustainable Soundscapes Network workshop*. National Science Foundation, Ogunquit, ME.
4. 2014, April 7-8. *Sound/science/environment: A critical workshop*. Penn State University, State College, PA.
5. 2014, April 26-27. *Workshop on institutional trust and confidence*. National Science Foundation, Lincoln, NE.
6. 2013, July 13-17. *Global Sustainable Soundscapes Network workshop*. National Science Foundation, Oracle, AZ.
7. 2012, October 13-20. *Dissertations Initiative for the Advancement of Climate Change Research Symposium (DISCCRS)*. National Science Foundation, Colorado Springs, CO.

AWARDS AND HONORS:

- 2012 Dissertations Initiative for the Advancement of Climate Change Research (DISCCRS) VII Symposium Scholar. National Science Foundation.

- 2010 – 2011 Cooperative Ecosystem Studies Units (CESU) Network National Office Fellowship recipient. Department of the Interior.
- 2008 – 2011 Hofmann Fellowship recipient. NC State College of Natural Resources.
- 2009 Annual Congress Travel Assistance Scholarship recipient. National Recreation and Park Association.
- 2008 – 2009 Doctoral Student of the Year. NC State University, Department of Parks, Recreation and Tourism.
- 2008 ISSRM Travel Scholarship recipient. Utah State University.
- 2007 Lucille and Derby Dustin Future Scholar Award recipient. National Recreation and Park Association.
- 2007 – 2008 NEPA Certificate Scholarship recipient. Shipley Group.

TEACHING AND MENTORING

TEACHING EXPERIENCE:

COURSES TAUGHT

1. *Environment and Society Departmental Seminar* (Utah State, ENVS 4980/6800/7800) – The departmental seminar serves as an open and constructive venue where students in the Department of Environment and Society will have an opportunity to learn about each other’s research and their interest in uncovering new information about how humans affect and respond to environmental change. The seminar also provides an opportunity for students within the department to explore common themes and topics that affect how they conduct and disseminate their research. 15 students. Spring 2016.
2. *Social Network Analysis for Natural Resource Management* (NC State, GIS 595/PRT 795) – This course provides an overview of research on how social networks affect individual, agency and organizational behavior within the context of natural resource management. Case studies and findings offered by previous research are augmented with detailed and collaborative lab-based assignments that give students a clear understanding of how to collect and analyze both eco-centric and whole-network data. Specifically, this involves: i) describing and calculating node-level and network level metrics; ii) identifying clusters, factions and cores; iii) analyzing two-mode relational data; iv) estimating peer influence; and iv) utilizing QAP regression to formally test hypotheses. All analysis is done in R but does not require previous experience with the software. Heavy emphasis is placed throughout the course on quantifying and measuring the temporal and geospatial implications of individual, agency and organizational behavior in natural resource management systems. 20 students. Fall 2014, 2015.
3. *Introduction to Geovisualization Technologies* (NC State, GIS 505) – This course provides an overview of emerging methods and tools for the visual exploration, analysis, synthesis and presentation of data that contains geographic information. Specific methods include the collection and representation of three-dimensional, remotely sensed and gigapixel imagery. An introduction to the display of digital imagery and visualizations through interactive GIS and immersive virtual environment technology is also covered. This hands-on course provides an opportunity to interact with current technologies within the Center for Geospatial Analytics’ Geovisualization Laboratory. 20 students. Spring 2014, 2015.
4. *Principles of Geospatial Information Systems* (NC State, GIS 530) – This course focuses on geospatial information systems from a mathematical and information science perspective. We discuss theoretical frameworks for conceptualizing geographic data, including levels of measurement, data control and the vector data and raster data paradigms. Then we discuss the geometric underpinnings of geospatial systems: representing data with geographic elements, spatial referencing systems and projections. Next, we explore map-related topology and computational geometry concepts. Finally, we survey the algorithms for core spatial manipulations, such as interpolation and polygon operations. 30 students. Spring 2014.
5. *Research Methods for Natural Resource Social Science* (Purdue, FNR 580) – Covers basic elements of research design for social scientists, with an emphasis on issues pertinent to natural resource management. Topics covered include the role of theories and paradigms in designing sound research, writing research questions and hypotheses and the importance of validity and reliability in research design. Qualitative, quantitative and mixed methods designs are presented and discussed. 15 students. Spring 2012, Fall 2012.
6. *Human Dimensions of Natural Resources* (Purdue, FNR 375) – An introduction to the human dimensions of forestry, wildlife and recreation; students learn how values, attitudes, community and behavior relate to natural resource management and decision-making. Various natural resource management stakeholders such as private landowners, natural resource agencies, the judiciary and

environmental and natural resource interest groups are discussed. Case studies specific to Indiana and the Midwest are utilized. 90 students. Spring 2012.

7. *Natural Resource Issues, Policy and Administration* (Purdue, FNR 365) – A broad overview of current natural resource and environmental policy issues at the global, national, regional and local levels. The origins of major natural resource and environmental issues, and the key individuals and organizations that shaped them, are covered. The achievements and deficiencies of these policies, as well as potential proposals for alternative solutions are examined. A combination of lectures, discussions, in-class activities, guest speakers and independent research are utilized. 90 students. Fall 2011, 2012.
8. *Outdoor Recreation Management* (NC State, PRT 350) – Designed to provide students with an understanding of natural resource based recreation management concepts. Methods of outdoor recreation planning and management are explored with special emphasis on the public sector. Current issues related to providing outdoor recreation opportunities are identified, presented and discussed. 50 students. Spring 2010.
9. *Sustainable Human and Environmental Systems* (NC State) – Graduate assistant and co-leader on American Universities International Programs’ (AUIP) 3.5 weeklong summer study abroad course to New Zealand. 24 students. Summer 2009.
10. *Outdoor Recreation Consortium* (NC State, PRT 351/610A) – Field course taught in Great Smoky Mountain National Park. Spring 2009.

COURSES DEVELOPED

1. *Data Management and Analytical Approaches for Sustainable Tourism* (NC State, PRT 595) – Provides students the ability to solve real world tourism problems through the use of advanced analytical methods. The course consists of three segments: data management, analytical approaches and an independent project.

WORKSHOPS:

INVITED WORKSHOPS

1. **Smith, J. W.** (2015, February 9-13). *Immersive Virtual Environment Technology for Teaching and Research*. A 10 session series for the University of South Australia. 20 hours total. ~12 participants per session.

ADVISING:

COMMITTEE CHAIR (*CO-CHAIR)

Janet Gorman*	PhD – Environment and Society	2016 –
Lauren Nicole Dupéy	PhD – Environment and Society	2016 –
Karly Bitsura-Meszaros*	PhD – Parks, Recreation and Tourism Management	2015 –
	MS – Natural Resources (Outdoor Recreation Tech. Option)	2013 – 2015
Jason Matney*	PhD – Forestry and Environ. Resources (Minor: GIS)	2015 –
Lindsey S. Smart*	PhD – Forestry and Environ. Resources (Minor: GIS)	2014 –
Georgina M. Sanchez*	PhD – Forestry and Environ. Resources (Minor: GIS)	2014 –
Allie McCreary*	PhD – Parks, Recreation and Tourism Management	2014 –
Tian Guo*	PhD – Parks, Recreation and Tourism Management	2012 –
Rosemary Keane	MS – Natural Resources (Outdoor Recreation Tech. Option)	2014 –

Currently: Research Communications Support Associate with the EPA Environmental Research and Business Support Program

COMMITTEE MEMBER

Gwendwr Meredith	PhD – Human Dimensions of Ecosystem Science and Mgmt.	2014 –
Laura Belica	PhD – Forestry and Environmental Resources (Minor: GIS)	2015 –

Scott M. Beck	PhD – Forestry and Environmental Resources (Minor: GIS)	2014 –
Ginger Deason	PhD – Parks, Recreation and Tourism Management	2013 –
Gareth Jones	PhD – Parks, Recreation and Tourism Management	2013 –
Jing Li	PhD – Parks, Recreation and Tourism Management	2012 –
Robert Radics	PhD – Forest Biomaterials	2012 – 2015
Birendra KC	PhD – Parks, Recreation and Tourism Management	2012 – 2015
Yuchen Mao	PhD – Parks, Recreation and Tourism Management	2011 – 2014
Matt Whitlow	MNR – Natural Resources (Outdoor Recreation Tech. Option)	2013 – 2015
Riana Gayle	MS – Environment and Society	2016 –
Robin Graham	MS – Human Dimensions of Ecosystem Science and Mgmt.	2014 –
Erin Crouse	MS – Natural Resources	2012 –
Tyler Hays	MS – Forest Biomaterials	2014 –
Malorey Henderson	MS – Parks, Recreation and Tourism Management	2015 –

COMPETITIVE GRANT/AWARDS OBTAINED BY ADVISEES

- **Bitsura-Meszaros, K.** 2015 – 2016 NC State Provost Doctoral Recruitment Fellowship. Amount: \$23,000
- **McCreary, A.** 2015 – 2016 North Carolina Recreation and Parks Scholarship Foundation Fletcher Graduate Scholarship. Amount: \$1,500
- Drake, M., Valdez, R., Popp, A., & **Bitsura-Meszaros, K.** NC State University Sustainability Fund Project Award. Amount: \$2,200
- **Sanchez, G. M.** 2015 – 2016 Southeast Climate Science Center Global Change Fellowship. Amount: \$12,000
- **McCreary, A., Bitsura-Meszaros, K., & Gonzalez-Jueck, G.** NC State University Graduate Student Association Block Grant Award. Amount: \$300
- **Keane, R., & McCreary, A.** CUAHSI's 2014 Challenge Grant Award. Amount \$4,000
- **Smart, L. S.** 2014 – 2015 NC State Provost Doctoral Recruitment Fellowship. Amount: \$21,000
- **Keane, R.** 2014 Crater Lake National Park Science and Learning Fellowship. Amount: \$2,500

EXTENSION PRODUCTS AND PROGRAMS

FUNDED EXTENSION PRODUCTS:

WEBSITES

- **northshoreclimate.com** – Website designed and deployed to provide practical and scientifically-grounded information to the residents of Minnesota’s North Shore region regarding how climate change will impact outdoor recreation and tourism throughout the region. Launched February 22, 2016. Usage statistics: 39 sessions; 10 users; 498 pageviews; 12.8 pages/session; 14-minute average session duration.

SERVICE

JOURNAL ARTICLE REVIEWS (77 SINCE 2010 = 11.0 PER YEAR)

Journal (Manuscripts, not counting revisions)
African Journal of Environmental Science and Technology (1)
American Journal of Preventive Medicine (1)
Annals of the American Association of Geographers (1)
Climatic Change (2)
Community Development (1)
Ecological Applications (1)
Ecological Indicators (10)
Environment & Behavior (1)
Environmental Communication (2)
Environmental Management (1)
Forests (1)
Geoforum (1)
Geoinformatica (1)
Human Dimensions of Wildlife (2)
Human Ecology (3)
International Forestry Review (1)
Journal of Applied Meteorology and Climatology (1)
Journal of Coastal Research (2)
Journal of Environmental Management (1)
Journal of Environmental Planning and Management (1)
Journal of Hydrometeorology (1)
Journal of Leisure Research (1)
Journal of Nature Conservation (1)
Journal of Outdoor Recreation and Tourism (2)
Journal of the American Water Resources Association (1)
Journal of Unconventional Parks, Tourism, and Recreation Research (1)
Landscape and Urban Planning (6)
Landscape Research (1)
Leisure/Loisir (1)
Leisure Sciences (10)
Social Indicators Research (2)
Social Sciences (1)
Society & Natural Resources (8)
Urban Studies (1)
Weather and Forecasting (1)
Weather, Climate and Society (3)
World Leisure Journal (1)

JOURNAL ASSOCIATE EDITOR OR EDITORIAL BOARD MEMBER

Journals (Manuscripts)
Leisure Sciences (1)
Sage Open (1)

JOURNAL GUEST EDITOR FOR SPECIAL ISSUE

Journal (Special issue title; Articles)
Journal of Park and Recreation Administration (Climate change and outdoor recreation: Shifting supply and demand; TBD)

BOOK PROPOSAL REVIEWS

Publisher (Reviews)

Elsevier (1)

Taylor & Francis/CRC Press (1)

Wiley-Blackwell (1)

CONFERENCE SUBMISSION REVIEWS

Conference (Years serving as reviewer)

ACM SIGSPATIAL International Workshop on Analytics for Big Geospatial Data (1)

International Congress for Conservation Biology (1)

Northeastern Recreation Research Symposium (2)

Southeastern Recreation Research Symposium (1)

GRANT PROPOSAL REVIEWS

Agency, Competition (Years serving as reviewer)

Maine Sea Grant, Biennial Research Call (1)

Maryland Sea Grant, Biennial Research Call (1)

COLLEGE, DEPARTMENTAL AND CENTER COMMITTEES

- 2015: NC State College of Natural Resources, Research Committee (Departmental representative)
- 2014: NC State Department of Parks, Recreation and Tourism Management, Assoc./Full Prof. in Geospatial Analytics and Human Dimensions of Natural Resources (Member)
- 2014: NC State College of Natural Resources, Director of Communications Search Committee (Member)
- 2014: NC State Center for Geospatial Analytics, Web Presence Development Committee (Member)
- 2013: NC State Department of Parks, Recreation and Tourism Management, Asst. Prof. in Sport and Sustainable Community Development Search Committee (Member)
- 2009: NC State Department of Parks, Recreation and Tourism Management, Asst./Assoc. Prof. in Tourism Search Committee (Graduate student representative)

COLLEGE COMMITTEES

- 2013 – 2014: NC State CNR Strategic Planning Interdisciplinary Research Themes Committee (member)

INTER-DEPARTMENTAL AND AFFILIATE FACULTY STATUS:

- 2013 – 2015: NC State Center for Geospatial Analytics Faculty Fellow
- 2013 – 2015: Southeast Climate Science Center Faculty Affiliate
- 2013 – 2015: College of Natural Resources' Natural Resource Masters Graduate Faculty

PROFESSIONAL AFFILIATIONS:

- Association of American Geographers
- International Association for Society and Natural Resources

PROFESSIONAL COMMITTEES:

- [Global Sustainable Soundscape Network Steering Committee member](#)
- [Human Dimensions of Global Environmental Change AAG Specialty Group Co-Director](#)