

## JORDAN W. SMITH

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### BIO

Jordan W. Smith is the Director of the Institute of Outdoor Recreation and Tourism at Utah State University. He earned his Ph.D. in Parks, Recreation and Tourism Management with minors in both Geospatial Information Systems and Sociology from NC State University. Jordan completed both his master's and undergraduate degrees from Utah State University. Jordan's outreach programs assist municipalities and counties as well as state and federal land management agencies as they attempt to balance the economic, social, and environmental tradeoffs of outdoor recreation and tourism development.

Currently, Jordan is currently working with municipal, county, state, and federal stakeholders across Utah to develop the state's Outdoor Recreation Strategic Plan. The plan will guide the actions of the [Utah Outdoor Adventure Commission](#), which has been tasked with making recommendations for how the state legislature should allocate approximately [\\$38 million in ongoing appropriations for outdoor recreation infrastructure development](#). Jordan has also helped establish the [Gateway and Natural Amenity Region Initiative](#), a one-of-a-kind Extension program that provides data, information, and tools to help the small, ill-prepared, underfunded, and understaffed gateway communities that serve as destinations for the millions of Americans and international visitors who recreate on public lands in the broader Intermountain West. Jordan also oversees several other notable outreach programs, including both the [Colorado Plateau and Basin and Range Dark Sky Cooperatives](#) and the [Red Emerald Resilience industry training program](#).

In addition to his outreach work, Jordan leads a research program focused on developing a better understanding of how environmental changes, driven by shifts in regional and global climatic conditions, influence the behaviors of outdoor recreationists and the management of outdoor recreation resources. His goal is to provide land managers, elected officials, private industry, and the public with a scientifically grounded understanding of how to best manage the rapidly changing nature of both outdoor recreation participation and outdoor recreation resources. Off-campus, Jordan is a competitive age group triathlete.

### EDUCATION

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

### PROFESSIONAL APPOINTMENTS

|             |  |                       |
|-------------|--|-----------------------|
| 2016 –      | Director<br>Institute of Outdoor Recreation and Tourism      | Utah State University |
| 2020 –      | Associate Professor<br>Department of Environment and Society | Utah State University |
| 2016 – 2020 | Assistant Professor<br>Department of Environment and Society | Utah State University |

|             |  |                           |
|-------------|--|---------------------------|
| 2013 – 2015 | Assistant Professor of Natural Resource Social Science and GIS<br>Department of Parks, Recreation and Tourism Management | NC State University       |
| 2012 – 2013 | Research Assistant Professor of Human Dimensions<br>Department of Parks, Recreation and Tourism Management               | NC State University       |
| 2011 – 2012 | Visiting Assistant Professor of Human Dimensions<br>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 |

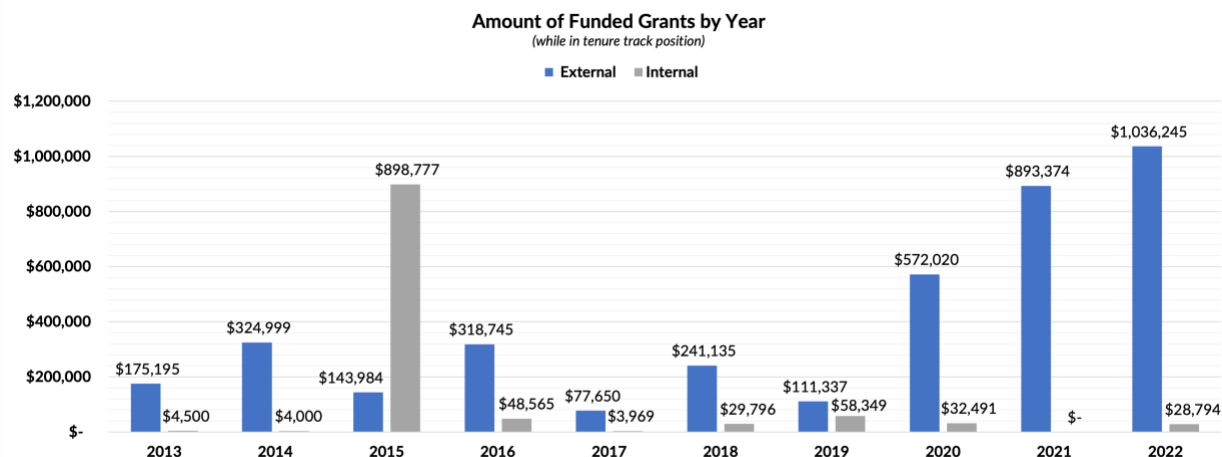
**CERTIFICATES**

**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.

## EXTENSION AND RESEARCH FUNDING

| EXTERNAL:                  | INTERNAL:                  |
|----------------------------|----------------------------|
| AS PI: \$ 3,190,553        | AS PI: \$ 181,670          |
| AS CO-PI: \$ 716,630       | AS CO-PI: \$ 899,277       |
| <b>TOTAL: \$ 3,907,183</b> | <b>TOTAL: \$ 1,080,447</b> |



### EXTERNAL GRANTS, CONTRACTS, AND COOPERATIVE AGREEMENTS RECEIVED:

1. **^Smith, J. W.**, Freimund, W., Monz, C., Powell, J., & Trauntvein, N. (2022-2023). Amount: \$383,500. *Analysis and planning support to guide the development of Utah's Outdoor Recreation Strategic Plan*. Utah Outdoor Adventure Commission, Utah Division of Outdoor Recreation, Utah Department of Natural Resources.
2. **^Smith, J. W.**, & Lamborn, C. C. (2022-2023). Amount: \$110,200. *Bridger-Teton National Forest national visitor use monitoring study: Round five*. USDA Forest Service.
3. **^Smith, J. W.**, & Lamborn, C. C. (2022-2023). Amount: \$76,000. *Fishlake National Forest national visitor use monitoring study: Round five*. USDA Forest Service.
4. **^Smith, J. W.**, & Lamborn, C. C. (2022-2023). Amount: \$79,800. *Payette National Forest national visitor use monitoring study: Round five*. USDA Forest Service.
5. **^Smith, J. W.**, & Lamborn, C. C. (2022-2023). Amount: \$90,000. *Examining visitor experiences related to cave and karst resources at Carlsbad Caverns National Park and Timpanogos Cave National Monument*. National Park Service.
6. **^Smith, J. W.** (2022-2023). Amount: \$86,271. *Planning and analysis support to guide the development of Halls Crossing and Bullfrog Marina*. Utah Division of Outdoor Recreation.
7. **^Smith, J. W.**, Lamborn, C. C. (2022). Amount: \$66,500. *Central Wasatch visitor use Study: Phase 2 (social assessment)*. Central Wasatch Commission.
8. **^Smith, J. W.**, Miller, A. B., & Yang, E. (2022). Amount: \$21,421. *An assessment of the location of the Bears Ears visitor center*. Utah Outdoor Partners.
9. **^Smith, J. W.**, Monz, C., & Freimund, W. (2022). Amount: \$122,552. *Visitor use monitoring support for Capitol Reef National Park, Rocky Mountain National Park, and Mount Rushmore National Memorial*. National Park Service via OTAK, Inc.
10. **^Smith, J. W.**, & Freimund, W. (2021-2025). Amount: \$23,359. *Green and Colorado Rivers recreation resource management plan: Data collection*. Utah Division of Forestry, Fire, and State Lands via SWCA Environmental Consultants.

CV3

^Post-tenure

†Graduate student advisee

\*Corresponding author

11. ^**Smith, J. W.** (2021 – 2024). Amount: \$60,000. *Colorado Plateau and Basin and Range Dark Skies Cooperatives program support*. National Park Service, Natural Sounds and Night Skies Division.
12. ^**Smith, J. W.**, Rumore, D., & Powell, J. (2021-2023). Amount: \$99,968. *Utah Office of Tourism Economic Development Administration training program*. Utah Office of Tourism.
13. ^Freimund, W., Miller, A. B., & **Smith, J. W.** (2021-2023). Amount: \$105,564. *Managing outdoor recreation in Grand County, Utah: Conflict, dispersal, and displacement across state, county, and federal lands*. Moab Area Travel Council and Utah Agricultural Experiment Station Public Lands Initiative Grants Program.
14. ^**Smith, J. W.**, Miller, A. B., Lamborn, C. C.<sup>†</sup>, Monz, C., & Rivers, E. (2021-2022). Amount: \$197,367. *Central Wasatch visitor use Study: Phase 2 (ecological and physical assessments)*. Central Wasatch Commission.
15. ^**Smith, J. W.**, & Miller, A. B. (2021 – 2022). Amount: \$88,709. *Recreation perception surveys to establish water quality objectives for Utah Lake*. Utah Division of Water Quality.
16. ^**Smith, J. W.** (2021-2022). Amount: \$81,320. *Ashley National Forest national visitor use monitoring study: Round five*. USDA Forest Service.
17. ^**Smith, J. W.** (2021-2022). Amount: \$150,100. *Uinta-Wasatch-Cache National Forest national visitor use monitoring study: Round five*. USDA Forest Service.
18. ^**Smith, J. W.**, Miller, A. B., Lamborn, C. C., Monz, C., & Rumore, D. (2021). Amount: \$37,325. *Central Wasatch visitor use study: Phase I*. Central Wasatch Commission.
19. ^**Smith, J. W.**, Van Berkel, D., Rumore, D., Powell, J., & Randall, N. (2021). Amount: \$49,954. *SCC-CIVIC-PG Track B: A tourism decision support system for Western gateway and natural amenity region communities*. National Science Foundation.
20. ^**Smith, J. W.**, & Lamborn, C. C.<sup>†</sup> (2020-2022). Amount: \$112,152. *2021 statewide Utah angler survey*. Utah Division of Wildlife Resources, Utah Department of Natural Resources.
21. ^**Smith, J. W.**, & Lamborn, C. C.<sup>†</sup> (2020-2022). Amount: \$24,963. *Mapping the immediate and prolonged impacts of, and adaptations to, fire in the Kenai River fishery*. Joint Fire Science Program Graduate Student Innovation Award.
22. ^**Smith, J. W.**, & Miller, A. B. (2020-2022). Amount: \$110,953. *The economic impact and visitor experiences of Utah's night skies*. Utah Agricultural Experiment Station Public Lands Initiative Grants Program and U.S. National Park Service.
23. ^Freimund, W., & **Smith, J. W.** (2020-2022). Amount: \$96,783. *Visitor survey to inform park planning at Bryce Canyon National Park*. National Park Service via OTAK, Inc.
24. ^**Smith, J. W.** (2020-2021). Amount: \$2,041. *COVID-19 market forecasting*. National Park Service via CHM Government Services.
25. ^**Smith, J. W.** (2020-2021). Amount: \$9,500. *GNAR Initiative – Gateway community challenges and project scoping effort*. Rivers, Trails, and Conservation Assistance Program, National Park Service.
26. ^**Smith, J. W.** (2020-2021). Amount: \$113,373. *Manti-La Sal National Forest national visitor use monitoring study: Round five*. USDA Forest Service.
27. ^**Smith, J. W.** (2020). Amount: \$74,480. *Caribou-Targhee National Forest national visitor use monitoring study: Round five*. USDA Forest Service.
28. ^**Smith, J. W.** (2020). Amount: \$1,000. *GNAR Initiative – Amenity migration webinar series*. Utah Outdoor Partners.

29. ^**Smith, J. W.** (2020). Amount: \$2,500. *Social impacts of expanded ski resort operations on Forest Service lands.* Valley Advocates for Responsible Development.
30. ^**Smith, J. W.**, Powell, J., & Rumore, D. (2020). Amount: \$15,000. *The gateway and natural amenity region network.* The North Face Explore Fund.
31. ^**Smith, J. W.** (2020). Amount: \$9,275. *The influence of the designation of Bears Ears National Monument on visitation to San Juan County, Utah.* Utah Outdoor Partners.
32. ^**Smith, J. W.** (2019-2020). Amount: \$111,337. *Sawtooth National Forest national visitor use monitoring study: Round five.* USDA Forest Service.
33. **Smith, J. W.**, & Messmer, T. (2018-2020). Amount: \$35,000. *Utah land management evaluation and assessment network.* Utah Watershed Initiative, Utah Department of Natural Resources.
34. **Smith, J. W.** (2018-2019). Amount: \$56,987. *Boise National Forest national visitor use monitoring study: Round four.* USDA Forest Service.
35. **Smith, J. W.** (2018-2019). Amount: \$79,763. *Dixie National Forest national visitor use monitoring study: Round four.* USDA Forest Service.
36. Belmont, P., **Smith, J. W.**, Flint, C., Adler, P., & Givens, J. (2018-2019). Amount: \$40,000. *Impacts of climate change to lands managed by the Bureau of Land Management in the western United States.* The Wilderness Society.
37. Dupéy, L. N.<sup>†</sup> & **Smith, J. W.** (2018-2019). Amount: \$2,000. *Close but no cigar: How near-miss wildfire events influence the risk perceptions and mitigation behaviors of residents who experienced a recent, nearby wildfire.* University of Colorado at Boulder Natural Hazards Center 2018 Quick Response Grant Program.
38. **Smith, J. W.**, Dorning, M. A., Van Berkel, D., & Beck, S. M. (2018). Amount: \$14,885. *Identifying the benefits of cultural resources and iconic views through social media.* The City of Boulder Open Space and Mountain Parks Department.
39. **Smith, J. W.** (2018). Amount: \$12,500. *An assessment of current outdoor recreation use in the Sheeprock Mountains.* Yamaha Outdoor Access Initiative.
40. **Smith, J. W.** (2017-2018). Amount: \$77,650. *Fishlake National Forest national visitor use monitoring study: Round four.* USDA Forest Service.
41. **Smith, J. W.** (2016-2018). Amount: \$71,757. *Joint National Park Service / Institute of Outdoor Recreation and Tourism Washington DC graduate student fellowship.* National Park Service.
42. **Smith, J. W.**, & Burr, S. W. (2016-2017). Amount: \$144,780. *Uinta-Wasatch-Cache National Forest national visitor use monitoring study: Round four.* USDA Forest Service.
43. **Smith, J. W.** (2016-2017). Amount: \$81,320. *Ashley National Forest national visitor use monitoring study: Round four.* USDA Forest Service.
44. **Smith, J. W.** (2016-2017). Amount: \$20,888. *The economic impact of snowmobiling in Utah.* Utah Snowmobile Association.
45. **Smith, J. W.**, & Smart, L. S.<sup>†</sup> (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.
46. 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.

47. Davenport, M. A., Enzler, S., Nieber, J., Wilson, B., Messer, C., Kanazawa, M., Seekamp, E., & **Smith, J. W.** (2014-2016). Amount: \$199,999. *Building climate readiness in nature-based tourism-dependent coastal communities*. Minnesota Sea Grant.
48. 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.
49. **Smith, J. W.**, Slocumb, W. S., & Smith, C. T. (2013-2016). Amount: \$175,195. *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* (Original award: \$20,000 (2013-2014); Modification 1: \$94,997 (2014-2016); Modification 2: \$25,318 (2016); Modification 3: \$34,880 (2017)). National Park Service.
50. 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).
51. 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.**, & Stoner, L. (2022-2024). Amount: \$28,794. *Connecting Utah's youth to the cosmos through the dark sky passport*. Utah State University Extension.
2. **Smith, J. W.** (2020-2021). Amount: \$28,491. *Developing strategic communications to increase non-lead ammunition among hunters in California condor range of Utah*. Utah State University Extension and Utah Division of Wildlife Resources.
3. **Smith, J. W.** (2020). Amount: \$4,000. *Institute of Outdoor Recreation and Tourism Communications Intern*. Utah State University Extension.
4. **Smith, J. W.**, & Monz, C. (2019-2021). Amount: \$58,349. *The CO<sub>2</sub>-e emissions generated by outdoor recreation and tourism: From measurement to messaging*. Utah Agricultural Experiment Station Seed Grant Program.
5. **Smith, J. W.** (2018-2020). Amount: \$29,796. *Determining Utah's most visited places using social media data*. Utah State University Extension.
6. **Smith, J. W.** (2017). Amount: \$3,969. *Institute of Outdoor Recreation and Tourism Communications Intern*. Utah State University Extension.
7. **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.
8. **Smith, J. W.** (2016). Amount: \$9,999. *Hydrologic conditions and demand for river recreation in the North Fork of the Virgin River Wilderness Study Area*. Utah State University Extension.
9. **Smith, J. W.** (2016). Amount: \$3,969. *Institute of Outdoor Recreation and Tourism communications intern*. Utah State University Extension.
10. Emanuel, R., Seekamp, E., Dasmohapatra, S., Moorman, C., & **Smith, J. W.** (2015-2017). 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.

11. **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.
12. **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.
13. 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.

**ADDITIONAL INTERNAL FUNDING RECEIVED:**

1. **Smith, J. W.**, & Monz, C. (2019). Amount: \$14,410. *Mobile ocular tracking to advance recreation ecology in parks and protected areas*. Utah Agricultural Experiment Station Equipment Grants Program.
2. Monz, C., & **Smith, J. W.** (2019). Amount: \$112,000. *S. J. & Jessie E. Quinney College of Natural Resources strategic needs request* [Discovery]. Utah State University Office of the President.

**GRANTS, CONTRACTS, AND COOPERATIVE AGREEMENTS UNDER REVIEW:**

1. Miller, A. B., Freimund, W., & **Smith, J. W.** (2023). Amount: \$49,832. *Evaluating the trail ambassador program in Grand County, Utah*. Grand County, Utah.

## EXTENSION PRODUCTS AND PROGRAMS

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### OUTREACH PRODUCTS:

#### WEBSITES

1. [extension.usu.edu/iort](http://extension.usu.edu/iort) – Website developed to provide interested individuals with data, information, and knowledge that will lead to a better understanding of the trade-offs and consequences associated with providing outdoor recreation opportunities on public lands throughout Utah and the Intermountain West. Launched: May 10, 2016. Usage statistics: 20,305 sessions; 13,588 unique users; 56,674 pageviews.
2. [usu.edu/gnar](http://usu.edu/gnar) – Website developed to showcase research, educational resources, and capacity building tools to assist communities, land managers, and others in gateway and natural amenity regions throughout the West prepare for and responding to planning, development, natural resource management, and public policy challenges. Launched: March 1, 2020. Usage statistics: 18,176 sessions; 10,489 unique users; 44,011 pageviews.
3. [utahsmostvisited.com](http://utahsmostvisited.com) – Website designed to share results from a social media data mining and mapping project aimed at identifying the most visited locations across Utah, within each of five geographic regions, and within each of Utah's 29 counties. The website was deployed in conjunction with a series of workshops held around Utah with land managers, outdoor recreation planners, city and county governments, and businesses dependent on outdoor recreation and tourism. Launched: September 12, 2019. Usage statistics: 589 sessions; 491 unique users; 1,383 pageviews.
4. [northshoreclimate.com](http://northshoreclimate.com) – Website designed 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: 5,458 sessions; 4,235 unique users; 11,543 pageviews.

#### PEER REVIEWED EXTENSION PUBLICATIONS (PUBLISHED)

Utah State University – Extension discouraged the publication of Fact Sheets beginning in late 2017. Information published through the Institute of Outdoor Recreation and Tourism since 2018 has either appeared as a webpage on [www.extension.usu.edu/iort](http://www.extension.usu.edu/iort) or as a non-peer reviewed extension publication (listed below).

1. Gilbert, L., **Smith, J. W.**, & Leung, Y. –F. (2017). *The technical efficiency of state park systems: Results from 31-years of data.* (IORT-PR-2017-01). Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [128 downloads]
2. Gilbert, L., **Smith, J. W.**, & Leung, Y. –F. (2017). *Which state park systems are most cost efficient at providing outdoor recreation opportunities?* (IORT-PR-2017-02). Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [160 downloads]
3. Gilbert, L., **Smith, J. W.**, Van Berkel, D., & van Zanten, B. (2016). *Tapping into social media data to identify the public's most valued landscapes.* (IORT-PR-2016-07). Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [276 downloads]
4. Gilbert, L., **Smith, J. W.**, van Zanten, B., & Van Berkel, D. (2016). *Mapping landscape values using social media.* (IORT-PR-2016-06). Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [105 downloads]
5. Gilbert, L., **Smith, J. W.**, & Davenport, M. A. (2016). *How will climate change affect winter recreation? Recent research from Northern Minnesota.* (IORT-PR-2016-05). Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [392 downloads]



6. Gilbert, L., & **Smith, J. W.** (2016). *How will climate change affect freshwater fishing?* (IORT-PR-2016-02). Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [321 downloads]
7. Gilbert, L., & **Smith, J. W.** (2016). *The impact of climate change on inland recreational fishing: A review of scientific knowledge.* (IORT-PR-2016-01). Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [451 downloads]
8. **Smith, J. W.**, Burr, S. W., Reiter, D. K., & Zeitlin, J. M. (2009). *Recreational off-highway vehicle use on public lands within Utah* (IORT/018). Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [290 downloads]
9. **Smith, J. W.**, Burr, S. W., & Reiter, D. (2008). *Outdoor recreation participation and community recreation needs in Utah* (IORT-PR-2008-02). Logan, UT: Institute of Outdoor Recreation and Tourism, 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-PR-2008-01). Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University.

#### NON-PEER REVIEWED EXTENSION PUBLICATIONS

1. ^**Smith, J. W.**, Lamborn, C. C.<sup>†</sup>, Rempel, W.<sup>†</sup>, & Miller, Z. D. (2023). *2021-2022 statewide Utah angler survey report.* Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [xx downloads]
2. ^**Smith, J. W.**, Spornbauer, B.<sup>†</sup>, & Lamborn, C. C.<sup>†</sup> (2023). *Outdoor recreation use and indicators of the ecological, physical, and social characteristics of recreation settings in the Central Wasatch: Phase 2 trail use report.* Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [xx downloads]
3. ^**Smith, J. W.**, Freimund, W., Lamborn, C. C.<sup>†</sup>, & VanSandt, G.<sup>†</sup> (2022). *Recreation use and experiences on the sovereign lands of the Colorado and Green Rivers in Utah.* Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [15 downloads]
4. ^**Smith, J. W.**, Yang, E.<sup>†</sup>, & Miller, A. B. (2022). *An assessment of the location of the Bears Ears National Monument cultural center.* Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [51 downloads]
5. ^Richards, J. C.<sup>†</sup>, & **Smith, J. W.** (2022). *Getting lead off the landscape: A theory and data-driven approach to increase non-lead ammunition use among hunters in the California Condor range of Utah (USA).* Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [48 downloads]
6. ^Larsen, A. (2022). *2021 Colorado Plateau Dark Sky Cooperative Annual Report.* Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [37 downloads]
7. ^**Smith, J. W.**, Miller, A. B., Lamborn, C. C.<sup>†</sup>, Monz, C., & Rumore, D. (2021). *Outdoor recreation use and indicators of the ecological, physical, and social characteristics of recreation settings in the Central Wasatch: Phase 1 Interim Report.* Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [148 downloads]
8. ^Sodja, L., Powell, J. [organizer], Rumore, D. [organizer], & **Smith, J. W.** [organizer]. (2021). *Boom town: Amenity migration in the rural West and the rise of the “zoom town” series.* Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [666 downloads]

9. ^**Smith, J. W.**, & Miller, A. B. (2020). *The state of outdoor recreation in Utah: 2020 key statistics and recommendations for policy, management, and promotion*. Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [310 downloads]
10. ^Wilkins, E.<sup>†</sup>, & **Smith, J. W.** (2020). *The influence of weather on the spatial behavior of visitors within Utah national parks*. Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [80 downloads]
11. ^Depew, E.<sup>†</sup>, & **Smith, J. W.** (2020). *Long-distance cycling routes: Economic impacts, best practices, and marketing strategies*. Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [136 downloads]
12. ^**Smith, J. W.**, & Guadarrama, U.<sup>†</sup> (2020). *Social impacts of expanded ski resort operations on Forest Service lands*. Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [155 downloads]
13. ^**Smith, J. W.** (2020). *Conservation conversations webinar summary – Conservation and outdoor recreation: Challenges and solutions to keeping our parks and public lands from being loved to death*. Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [87 downloads]
14. ^**Smith, J. W.**, Wilkins, E. J.<sup>†</sup>, & Miller, A. B. (2020). *Bears Ears and outdoor recreation in San Juan County: The impact of Bears Ears National Monument on outdoor recreation and industries related to outdoor recreation in San Juan County, Utah*. Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [254 downloads]
15. ^**Smith, J. W.** (2020). *Utah Land Management Evaluation and Assessment Network: 2020 Needs Assessment Report*. Logan, UT: Utah State University Extension. [370 downloads]
16. ^**Smith, J. W.**, Miller, A. B., & Leung, Y. -F. (2020). *2019 outlook and analysis letter: The vital statistics of America's state park systems*. Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [256 downloads]
17. Dorning, M. A., Van Berkel, D., Beck, S. M., Wilkins, E. J.<sup>†</sup>, Zhang, H.<sup>†</sup>, & **Smith, J. W.** (2019). *Aesthetic characteristics of the Front Range: An analysis of viewsheds provided by Boulder OSMP lands*. Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [144 downloads]
18. Dupéy, L. N.<sup>†</sup>, & **Smith, J. W.** (2019). *Close but no cigar: How a near-miss wildfire event influences the risk perceptions and mitigation behaviors of residents who experienced a recent, nearby wildfire*. Logan, UT: Institute of Outdoor Recreation and Tourism and Forestry Extension, Department of Wildland Resources, Utah State University. [489 downloads]
19. **Smith, J. W.**, & Leung, Y. -F. (2018). *2018 outlook and analysis letter: The vital statistics of America's state park systems*. Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [130 downloads]
20. **Smith, J. W.**, Muhlestein, B.<sup>†</sup>, Chelak, M., Belton, L., & Messmer, T. (2018). *Sheeprock Mountains visitor use report*. Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [123 downloads]
21. Wilkins, E. J.<sup>†</sup>, Zhang, H.<sup>†</sup>, Van Berkel, D., Dorning, M., Beck, S., & **Smith, J. W.** (2018). *Landscape values and aesthetic preferences across the front range: Visitors' perceptions of the values provided by Boulder OSMP lands and their aesthetic preferences for specific landscape features*. Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [106 downloads]

22. Sausser, B.<sup>†</sup>, & **Smith, J. W.** (2018). *Elevating outdoor recreation together: Opportunities for synergy between the National Park Service and state offices of outdoor recreation*. Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [425 downloads]
23. **Smith, J. W.**, & Lamborn, C. C.<sup>†</sup> (2017). *The economic impact of snowmobiling in Utah*. Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [191 downloads]
24. McCreary, A.<sup>†</sup>, Seekamp, E., Davenport, M. A., & **Smith, J. W.** (2017). *Understanding visitor behaviors and responses to climate change projections*. Raleigh, NC: NC State Extension, NC State University. [Download data not available]
25. **Smith, J. W.**, & Leung, Y. –F. (2017). *2017 outlook letter: A report prepared for the National Association of State Park Directors*. Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [251 downloads]
26. **Smith, J. W.**, & Leung, Y. –F. (2016). *2016 outlook and analysis letter: A report prepared for the National Association of State Park Directors*. Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University. [103 downloads]

#### NON-PEER REVIEWED EXTENSION PUBLICATIONS (POSTER PRESENTATIONS AT WORKSHOPS)

1. Smart, L. S., Meentemeyer, R. K., & **Smith, J. W.** (2017, November). *A decade of land change on the APP*. Poster presented at the Building Adaptive Capacity to Flooding and Saltwater Intrusion on the Albemarle-Pamlico Peninsula Community Workshop. Columbia, North Carolina.
2. Smart, L. S. Taillie, P. J., **Smith, J. W.**, & Meentemeyer, R. K. (2017, October). *Mapping coastal vegetation change*. Poster presented at the Salinization in Eastern North Carolina: Monitoring, Management, and Mitigation Workshop. Manteo, North Carolina.

#### NON-PEER REVIEWED EXTENSION PUBLICATIONS (FACT SHEETS PREPARED FOR CLIENTS)

1. <sup>^</sup>**Smith, J. W.**, & Zhang, H., (2020). Access and visitation statistics for Utah State Fairpark project. Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University.
2. <sup>^</sup>**Smith, J. W.**, & Zhang, H., (2020). Access and visitation statistics for Vineyard Beach project. Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University.
3. Davenport, M. A., Seekamp, E., & **Smith, J. W.** (2017). North Shore community climate readiness project: Visitor sensitivity. St. Paul, MN: University of Minnesota.

#### NON-PEER REVIEWED OUTREACH MATERIALS (NEWSLETTER ARTICLES)

1. <sup>^</sup>**Smith, J. W.**, & Messmer, T. (January 2020). Finding common ground for all Utah Land Managers. *The Communicator: A Quarterly Publication of Utah's Community-based Conservation Program*.
2. **Smith, J. W.** (October 2018). The more you know – the more you grow: Utah Lands Management and Assessment Network. *The Communicator: A Quarterly Publication of Utah's Community-based Conservation Program*.

#### WEBINARS (INVITED PRESENTER)

1. **Smith, J. W.**, Brownlee, M. T., & Zajchowski, C. (2019, December 18). *The effects of climate change on outdoor recreation in the United States*. Webinar organized for the Society of Outdoor Recreation Professionals. [Live participants: Unknown; Vimeo views: 33]

2. Peterson, D., & **Smith, J. W.** (2018, March 26). [Shifting trends in outdoor recreation activity across California](#). In L. Y. Buluc (Coordinator), *Sustainable recreation – A system-level review of the opportunities & challenges*. Webinar organized by the USDA Forest Service Region 5 Climate Change Integration Team. Live participants: ~46.
3. **Smith, J. W.** (2017, March 22). How the spatial and temporal availability of freshwater affects outdoor recreation in the high deserts of the Intermountain West, USA. In L. Ziemann (Coordinator), *Effects of drought on recreation and wilderness*. Webinar organized by the USDA Forest Service Office of Sustainability and Climate. Live participants: ~250.

#### WEBINARS AND ONLINE PANEL DISCUSSIONS (COORDINATED)

1. ^Gateway and Natural Amenity Region Initiative. (2021, December 7). *Peer-to-peer learning with the GNAR network: Housing, transportation, and land use challenge and strategies in GNAR communities?* [Listening session]. Gateway and Natural Amenity Region Initiative, Institute of Outdoor Recreation and Tourism, Utah State University.
2. ^Gateway and Natural Amenity Region Initiative. (2021, July 1). *Peer-to-peer learning with the GNAR network: Where do we go from here?* [[How to shred GNAR\(ly\) problems series](#); Listening session]. Gateway and Natural Amenity Region Initiative, Institute of Outdoor Recreation and Tourism, Utah State University. Registrants: 36.
3. ^Ruther, G. (2021, June 15). *Vail InDEED: An innovative approach to increase the home supply for year round local residents*. [[How to shred GNAR\(ly\) problems series](#)]. Gateway and Natural Amenity Region Initiative, Institute of Outdoor Recreation and Tourism, Utah State University. Registrants: 100; YouTube views: 176.
4. ^Eddington, T. (2021, June 1). *Tools to increase housing affordability: Lessons learned from Park City and beyond*. [[How to shred GNAR\(ly\) problems series](#)]. Gateway and Natural Amenity Region Initiative, Institute of Outdoor Recreation and Tourism, Utah State University. Registrants: 148; YouTube views: 105.
5. ^Spuhler, J., Mcleod, B., & Katcher, J. (2021, May 20). *Educated guests make good neighbors: How to educate short-term rental guests*. [[How to shred GNAR\(ly\) problems series](#)]. Gateway and Natural Amenity Region Initiative, Institute of Outdoor Recreation and Tourism, Utah State University. Registrants: 81; YouTube views: 61.
6. ^Watson, C., Spuhler, J., Mcleod, B., & Katcher, J. (2021, May 4). *Short term rental trends in the Intermountain West and how to craft an ordinance to handle them*. [[How to shred GNAR\(ly\) problems series](#)]. Gateway and Natural Amenity Region Initiative, Institute of Outdoor Recreation and Tourism, Utah State University. Registrants: 153; YouTube views: 178.
7. ^Sullivan, W. (2021, April 22). *Housing assessments 101: The what, why and how*. [[How to shred GNAR\(ly\) problems series](#)]. Gateway and Natural Amenity Region Initiative, Institute of Outdoor Recreation and Tourism, Utah State University. Registrants: 128; YouTube views: 171.
8. ^Monz, C., D'Antonio, A., & Sisneros-Kidd, A. (2020, December 9). *Conservation and outdoor recreation: Challenges and solutions to keeping our parks and public lands from being loved to death (Part II)* [[Conservation Conversations series](#)]. Institute of Outdoor Recreation and Tourism, Utah State University. [Live participants: 205; YouTube views: 221]
9. ^Gateway and Natural Amenity Region Initiative. (2020, December 3). *What comes next? Community peer exchange & listening session* [Amenity migration series; Listening session]. Gateway and Natural Amenity Region Initiative, Institute of Outdoor Recreation and Tourism, Utah State University. [Live participants: 42; Not recorded]

10. ^Glick, D., & Carpenter, R. (2020, November 19). *A tale of two towns: The successful communities approach in action in Gardiner & Deer Lodge, MT* [Amenity migration series]. Gateway and Natural Amenity Region Initiative, Institute of Outdoor Recreation and Tourism, Utah State University. [Live participants: 79; YouTube views: 132]
11. ^Figgins, K., Brown, R., Niehaus, E., Muldoon, P., & Qualls, A. (2020, November 12). *Perspectives on amenity migration* [Amenity migration series; Community Q&A]. Gateway and Natural Amenity Region Initiative, Institute of Outdoor Recreation and Tourism, Utah State University. [Live participants: 112; YouTube views: 152]
12. ^Albrecht, D., Lawson, M., Nelson, P., & Cromartie, J. (2020, October 29). *Current outlooks on amenity migration in the Intermountain West* [Amenity migration series; Research Q&A]. Gateway and Natural Amenity Region Initiative, Institute of Outdoor Recreation and Tourism, Utah State University. [Live participants: 217; YouTube views: 180]
13. ^Mow, J., Martin, M., Ledford, L., & Monz, C. (2020, December 9). *Conservation and outdoor recreation: Challenges and solutions to keeping our parks and public lands from being loved to death (Part I)* [Conservation Conversations series]. Institute of Outdoor Recreation and Tourism, Utah State University. [Live participants: 397; YouTube views: 286]
14. ^Rumore, D. (2020, October 15). *Growth and development challenges in GNAR communities* [Amenity migration series; Research Q&A]. Gateway and Natural Amenity Region Initiative, Institute of Outdoor Recreation and Tourism, Utah State University. [Live participants: 143; YouTube views: 353]
15. ^Mueller, T. (2020, September 30). *The latest research from the Rural West Covid Project* [Research Q&A]. Gateway and Natural Amenity Region Initiative, Institute of Outdoor Recreation and Tourism, Utah State University. [Live participants: Unknown; YouTube views: 43]
16. ^Gateway and Natural Amenity Region Initiative. (2020, September 15). *What have we learned? Communities reflect back on 6-months of COVID-19*. [Listening session]. Gateway and Natural Amenity Region Initiative, Institute of Outdoor Recreation and Tourism, Utah State University. [Live participants: Unknown; Not recorded]
17. ^Smith, J. W. (2020, September 3). *Utah Land Management Evaluation and Assessment Network needs assessment presentation and discussion*. Utah Land Management Evaluation and Assessment Network. [Live participants: Unknown; Not recorded]
18. ^Price, J., Shaw, J., Miller, Z., & Freimund, W. (2020, August 19). *Outdoor recreation participation in Utah during the COVID-19 pandemic*. Gateway and Natural Amenity Region Initiative, Institute of Outdoor Recreation and Tourism, Utah State University. [Live participants: Unknown; YouTube views: 89]
19. ^Flint, C. (2020, July 23). *Wellbeing in Utah's GNAR communities* [Research Q&A]. Gateway and Natural Amenity Region Initiative, Institute of Outdoor Recreation and Tourism, Utah State University. [Live participants: Unknown; YouTube views: 38]
20. ^Rumore, D. (2020, June 23). *GNAR Network Peer-to-peer coaching session*. Gateway and Natural Amenity Region Initiative, Institute of Outdoor Recreation and Tourism, Utah State University. [Live participants: Unknown; Not recorded]
21. ^Haynes, S., & Middlebrook, D. (2020, June 10). *Community innovations in policy and practice* [Community Q&A]. Gateway and Natural Amenity Region Initiative, Institute of Outdoor

- Recreation and Tourism, Utah State University.  
[Live participants: Unknown; YouTube views: 44]
22. ^Gateway and Natural Amenity Region Initiative. (2020, May 28). *Policies and practices for reopening GNAR communities* [Listening session]. Gateway and Natural Amenity Region Initiative, Institute of Outdoor Recreation and Tourism, Utah State University.  
[Live participants: Unknown]
  23. ^Gateway and Natural Amenity Region Initiative. (2020, April 30). *Challenges and opportunities for GNAR communities during COVID-19* [Listening session]. Gateway and Natural Amenity Region Initiative, Institute of Outdoor Recreation and Tourism, Utah State University.  
[Live participants: Unknown; Not recorded]
  24. **Smith, J. W.**, Brownlee, M. T., & Zajchowski, C. (2019, December 18). [The effects of climate change on outdoor recreation in the United States](#). Webinar organized for the Society of Outdoor Recreation Professionals.  
[Live participants: Unknown; Vimeo views: 33]
  25. Trauntvein, N. (2019, October 16). [Engaging volunteers as partners: Lessons learned working with the Appalachian Trail Conservancy, National Ski Patrol, and community recreation volunteers](#). Webinar organized for the Society of Outdoor Recreation Professionals.  
[Live participants: Unknown; Vimeo views: 19]
  26. Courtney, A., & Canterbury, M. (2019, August 21). [Public health partnerships in Minnesota: Navigating the land of 10,000 opportunities](#). Webinar organized for the Society of Outdoor Recreation Professionals.  
[Live participants: 40; Vimeo views: 16]
  27. Wentworth, J. (2019, May 22). [Sustainable recreation partnerships with federal agencies: Lessons from California's Eastern Sierra](#). Webinar organized for the Society of Outdoor Recreation Professionals.  
[Live participants: 54; Vimeo views: 10]
  28. Eastep, B., & Watson, K. (2019, April 24). Partnering with universities for youth engagement, career connections, and because it can lead to great things! Webinar organized for the Society of Outdoor Recreation Professionals.  
[Live participants: 18; Not recorded]
  29. Perry, E., & Sene-Harper, A. (2019, March 20). [Partnering to enhance diversity in outdoor recreation participation](#). Webinar organized for the Society of Outdoor Recreation Professionals.  
[Live participants: 79; Vimeo views: 34]
  30. Adams, T., & McKee, T. (2019, February 20). [Partnering with state offices of outdoor recreation](#). Webinar organized for the Society of Outdoor Recreation Professionals.  
[Live participants: 76; Vimeo views: 11]
  31. Leung, Y.-F., Hvenegaard, G., Mucha, D., & Damnjanović, I. (2018, December 19). [International perspectives on visitor use management from new IUCN best practices guidelines](#). Webinar organized for the Society of Outdoor Recreation Professionals.  
[Live participants: Unknown; Vimeo views: 8]
  32. D'Antonio, A., & Sisneros-Kidd, A. (2018, October 24). [Spatial approaches to monitoring and managing visitor use](#). Webinar organized for the Society of Outdoor Recreation Professionals.  
[Live participants: Unknown; Vimeo views: 9]
  33. Maples, J. N., & Bradley, M. J. (2018, September 26). [Understanding economic impact studies: Lessons on data and the outdoor revolution](#). Webinar organized for the Society of Outdoor Recreation Professionals.  
[Live participants: Unknown; Vimeo views: 12]

34. VanderWoude, D., Seidel, H., Leslie, C., & Kellogg, A. (2018, August 29). [Visitor use monitoring program development and implementation](#). Webinar organized for the Society of Outdoor Recreation Professionals. [Live participants: Unknown; Vimeo views: 6]

## **MEDIA COVERAGE**

### **COMMENTARY**

#### *Media outlet*

#### *Salt Lake Tribune*

1. ^**Smith, J. W.** (2020, April 6). [Utah's outdoor spaces can help us reconnect. At a distance](#). *Salt Lake Tribune*.
2. **Smith, J. W.**, Monz, C., Miller, Z., & Brunson, M. (2019, October 4). [Science should shape off-highway vehicle policy in national parks](#). *Salt Lake Tribune*.

### **PODCASTS**

1. ^Traugher, W. (Producer). (2020, August 10). What are they up to & why are they up to it [Audio podcast]. Retrieved from <https://podcasts.apple.com/us/podcast/instead/id1502872813>

## **MEDIA COVERAGE OF EXTENSION, RESEARCH AND TEACHING PRODUCTS AND PROGRAMS**

1. ^DeGraw, S. (2022, November 22). [Utah's tourism industry strives to reduce its environmental impact on communities](#). *St George News*.
2. ^Gilbert, L. (2022, October 11). [USU researchers use local perspective to build Utah's outdoor recreation strategic plan](#). *Utah State University Today*.
3. ^Smith, T. R. (2022, October 5). [Outdoor Adventure Commission hosts Wasatch Front recreation workshop](#). *TownLift*.
4. ^Hansman, H. (2022, June 28). [How growing Western rec towns might hold onto their futures](#). *High Country News*.
5. ^Choate-Nielsen, A. (2022, Summer). [A delicate balance: The search for sustainable tourism and resource preservation in the American West](#). *University of Utah Magazine*.
6. ^Williams, T. (2022, June 13). [Outdoor recreation in Utah with Jordan Smith on Wednesday's Access Utah](#). *Utah Public Radio*.
7. ^Scott, C. (2022, March 31). [Undisciplined: What will happen to Utah's 'greatest snow' when there's no more snow?](#) *Utah Public Radio*.
8. ^Thomson, L. (2022, February 28). [Study details vulnerability of outdoor recreation to climate change](#). *AZOcleantech.com*.
9. ^YCC Team. (2022, January 27). [Utah ski resorts see declining snow quality and shorter seasons](#). *Yale Climate Connections*.
10. ^Johanson, M. (2022, January 22). [The small cities and towns booming from remote work](#). *BBC.com*.
11. ^Champagne, B. (2021, December 22). [Personal photos can benefit Utah's popular tourist sites](#). *FOX13*.
12. ^Feuz, E. (2021, December 21). [National Parks can use social media to aid in park surveys](#). *Utah Public Radio*.
13. ^Winslow, B. (2021, December 14). [Report warns of long-term drought, air quality issues](#). *FOX13*.

14. ^Hutson, S. (2021, December 14). [Utah State University report dives into the state of Utah’s land, water and air](#). *KUER.org*
15. ^Williams, C. (2021, December 14). [Gov. Cox says ‘evidence’ should guide policy as Utah’s growth challenges the environment](#). *KSL.com*
16. ^Williams, C. (2021, December 14). [Drought, wildfires, pollution: How should Utah tackle its biggest problems? Using ‘evidence,’ Gov. Cox says](#). *Deseret News*.
17. ^Stoner, L. (2021, December 8). [A picture worth a thousand words: Identifying landscape preferences using social media algorithms](#). *Utah State University Today*.
18. ^Gilbert, L. (2021, December 7). [Saving California condors by understanding Utah hunters](#). *Utah State Magazine*.
19. ^Hagadone, Z., & Kiebert-Carey, L. (2021, October 28). [Where are all the workers? Part V](#). *sandpointreader.com*
20. ^Long, C. (2021, October 21). [Hunters helping condors offers coupons and prizes to hunters using non-lead ammunition](#). *Utah Public Radio*.
21. ^McCall, P. (2021, October 18). [USU researchers explore impacts of climate change on Utah’s ski resorts](#). *KUER.org*.
22. ^Starbuck, L., Glick, N., Orozco-Rodriguez, J., Johnson, B., & The Associated Press. (2021, October 15). [KUNR Today: Climate change could mean shorter ski seasons, Nevada rural hospital ICUs at capacity](#). *KUNR.org*.
23. ^Bink, A. (2021, October 12). [Climate change impacting Utah ski resorts, research finds how they’re adapting](#). *ABC4.com*
24. ^Smith, E. (2021, October 6). [Study: Climate change poses an existential threat to outdoor recreation](#). *Outside Business Journal*.
25. ^Glick, N. (2021, October 1). [Study: Climate change could reduce outdoor recreation on public lands](#). *KUNR.org*.
26. ^Roth, S. (2021, September 23). [Newsletter: Love the national parks? Get ready for them to heat up](#). *Los Angeles Times*.
27. ^Weisbrod, K. (2021, September 18). [Warming Trends: Shakespeare, dogs and climate change on British TV; Less crowded hiking trails; and toilet paper flunks out](#). *Inside Climate News*.
28. ^Gilbert, L. (2021, September 15). [Rising temperatures reshape when and how much people get outdoors on public lands](#). *Utah State University Today*. [reposted at *phys.org*]
29. ^Olander, D. (2020, December 24). [‘Triple whammy from COVID’: How pandemic put vacation spots through the grinder](#). *KSL.com*.
30. ^Larsen, L. (2020, December 7). [Fees drive away low-income families from outdoor places like Bridal Veil Falls, researchers say](#). *Salt Lake Tribune*.
31. ^Friedrichs, J. (2020, October 26). [‘Zoom town’ trend finding a home in Grand Marais, the North Shore of Lake Superior](#). *WTIP – North Shore Community Radio*.
32. ^Smith, L. (2020, October 17). [‘Zoom towns’ are exploding in the West](#). *Fast Company*.
33. ^Roth, S. (2020, September 19). [The story behind that Patagonia tag, and how the Trump era changed outdoor recreation](#). *L.A. Times*.



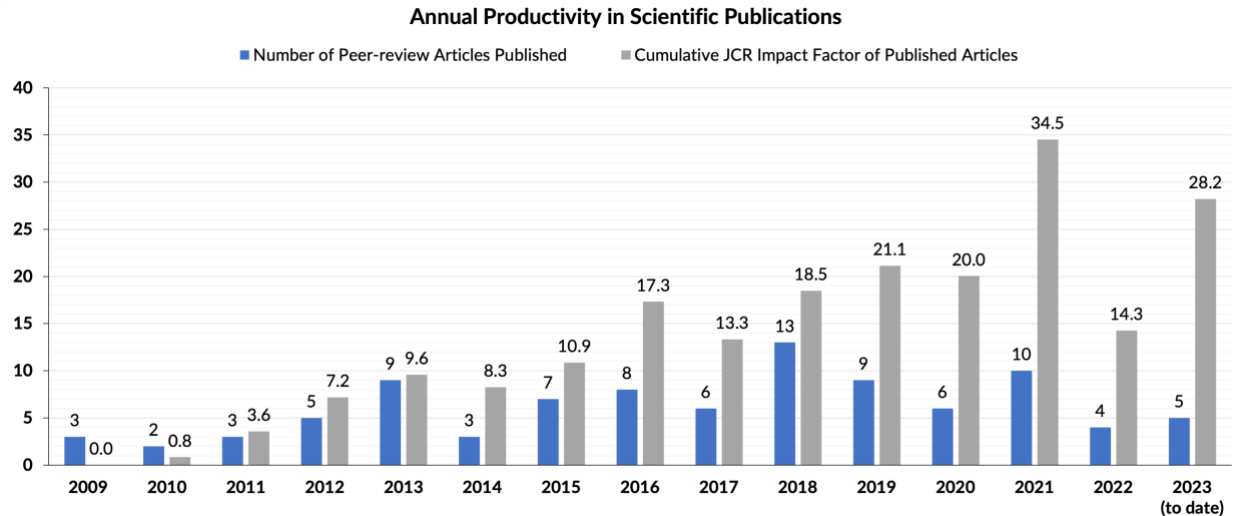
34. ^Hansman, H. (2020, August 29). The recreation economy isn't as resilient as we thought: Riding out the boom-and-bust tourism economy. *Outside Online*.
35. ^Maffly, B. (2020, March 27). National monuments like Grand Staircase boost rural economies, study shows, and shrinking them could cost hundreds of jobs. *Salt Lake Tribune*.
36. ^Chrobak, U. (2020, March 20). National monuments help local economies. *Popular Science*.
37. Miller, Z., & Hillyard, T. (2019, September 10). Ready to rumble: Recreationists rate acceptability of noise in natural areas. *Utah State Today*.
38. Chrobak, U. (2019, June 6). State parks could be 10 times more expensive to operate by 2050. *Popular Science*.
39. Yirka, B. (2019, June 4). State park attendance trends suggest parks will be overburdened by mid-century. *Phys.org*.
40. Renda, M. (2019, June 4). Nation's system of state parks stressed by rising temperatures, more visitors. *Missoula Current*.
41. Forgie, A. (2019, June 4). Costs to maintain state parks could skyrocket by billions. *KUTV.com*.
42. Kahn, B. (2019, June 3). Maintaining state parks in a warming world could cost billions. *Gizmodo – Earther*.
43. **Smith, J. W.**, & Hillyard, T. (2019, May 8). Coldwater fishing in a warming climate. *Utah State Today*.
44. Hager, R. (2018, December 6). New study on recreation in the Sheeprock Mountains shows unusual use. *Utah Public Radio*.
45. Leavitt, S. (2018, December 3). Wild about Utah: Enjoying Utah's Backcountry with Snowmobiles. *Utah Public Radio*.
46. Laplante, M. (2018, November 30). UnDisciplined: The nanotechnologist and the environmental social scientist. *Utah Public Radio*.
47. **Smith, J. W.** (2018, November 28). A finger on the pulse of U.S. state parks. *Utah State Today*.
48. Sanford, J. (2018, August 9). States: Want an outdoor rec economy? Pay up. *Outside Online*.
49. Gayle, R. (2018, July 17). Loving our lands: Who foots the bill for increasing maintenance backlog? *Utah Public Radio*.
50. Gayle, R. (2018, June 26). Spatial development and design drive water use, according to new study. *Utah Public Radio*.
51. Sanford, J. (2018, March 15). 13 huge wins for outdoor recreation. *Outdoor Industry Association News*.
52. Richards, C. (2018, March 9). Some Utah national parks get fewer visitors when it gets too hot, USU study says. *KSL.com*.
53. Opsahl, K. (2018, March 8). USU study: Some Utah national parks see higher visitors despite increased heat. *Herald Journal*.
54. Hillyard, T. (2018, March 1). When hot is too hot. *Utah State Today*.
55. Associated Press. (2017, December 25). Report: Snowmobilers decline despite rising Utah population. *KSL.com*.

56. Larsen, L. (2017, December 22). [Snowmobiling on the decline in Utah, but still moves millions through Weber Co.](#) *Standard-Examiner*.
57. [Report: Snowmobilers decline despite rising Utah population](#) (2017, December 20). *U.S. News and World Report*.
58. Opsahl, K. (2017, December 19). [USU report: Utah snowmobilers decline despite increasing population.](#) *Idaho Press-Tribune*.
59. Lamborn, C. C., & Smith, J. W. (2017, October 18). [Asking for a fee – even a small one – changes the way people use the outdoors.](#) *London School of Economics USAPP – American Politics and Policy Blog*.
60. [Researchers get SALT-y over climate change](#) (2017, October 10). *NC State University College of Natural Resources News*.
61. Larsen, L. (2017, July 16). [Study shows public land user fees leave low-income citizens feeling priced out.](#) *Standard-Examiner*.
62. Gilbert, L. (2017, July 10). [Small fees for access to public lands changes how some use the outdoors.](#) *Utah State Today*.
63. Henline, M. (2017, January 25). [USU researchers study carbon sequestration incentive for land owners.](#) *Cache Valley Daily*.
64. Muffoletto, M. (2017, January 19). [Forests can temper effects of urban growth say USU researchers.](#) *Utah State Today*.
65. Maffly, B. (2016, December 24). [As snowmobiles lose popularity in Utah, retrofitted UTVs and motorcycles gain more traction.](#) *Salt Lake Tribune*.
66. Maffly, B. (2016, November 23). [Worth their weight in likes: Instagram posts can show the value of Utah landscapes, researchers say.](#) *Salt Lake Tribune*.
67. Avakian, T. (2016, November 4). [How your vacation photo posts help scientists.](#) *Travel + Leisure*.
68. Opsahl, K. (2016, November 4). [USU prof. examines social media photos to help land managers.](#) *Herald Journal*.
69. Gilbert, L. (2016, November 3). [Your vacay photo social media posts help science says USU researcher.](#) *Utah State Today*.
70. Allred, C. (2016, June 7). [Survey shows locals love American Fork Canyon just the way it is.](#) *Daily Herald*.

## SCHOLARSHIP

### CITATION INDICES:

CITATIONS: **2,650** | H-INDEX: **29** | I10-INDEX: **56**



### PUBLICATIONS:

#### PEER REVIEWED ARTICLES (PUBLISHED AND IN PRESS)

[JCR IMPACT FACTOR]

1. ^Lamborn, C. C.<sup>†</sup>, & **Smith, J. W.\*** (2023). Social and ecological impacts of fire to coastal fisheries: A study of the Kenai River Fishery (Alaska, USA). *Marine and Coastal Fisheries*. [2.206]
2. ^Depew, E.<sup>†</sup>, & **Smith, J. W.\*** (2023). Best practices for developing and marketing long-distance cycling routes. *Journal of Park and Recreation Administration*. [n/a]
3. ^Lamborn, C. C.<sup>†</sup>, Givens, J., Lant, C., Roper, B., Monz, C., & **Smith, J. W.** (2023). The social-ecological system of the Kenai River Fishery (Alaska, USA). *Journal of Environmental Management*, 331, 117314. [8.910]
4. ^Spornbauer, B. S.<sup>†</sup>, Monz, C., D'Antonio, A. & **Smith, J. W.\*** (2023). Factors influencing informal trail conditions: Implications for management and research in urban-proximate parks and protected areas. *Landscape and Urban Planning*, 231, 104661. [6.142]
5. ^Yang, E.<sup>†</sup>, & **Smith, J. W.** (2023). The spatial and temporal resilience of the outdoor recreation and tourism industries in the United States throughout the COVID-19 pandemic. *Tourism Management*, 104661. [10.967]
6. ^Zhang, H.<sup>†</sup>, & **Smith, J. W.\*** (2022). A process for identifying challenges and opportunities for outdoor recreation and tourism development using participatory workshops and big data. *Frontiers in Sustainable Tourism*, 1, 935369. [n/a]
7. ^Miller, A. B., Winter, P. L., Sánchez, J. J., Peterson, D. L., & **Smith, J. W.** (2022). Climate change and recreation in the western United States: Effects and opportunities for adaptation. *Journal of Forestry*, 120(4), 453-472. [2.047]
8. ^Spornbauer, B.<sup>†</sup>, Monz, C., & **Smith, J. W.\*** (2022). The effects and trade-offs of alternative transportation systems in U.S. national parks: An integrative review. *Journal of Environmental Management*, 315, 115138. [6.789]

9. ^Wilkins, E. J.<sup>†</sup>, Van Berkel, D., Zhang, H.<sup>†</sup>, Dorning, M. A., Beck, S. M., & **Smith, J. W.** (2022). Promises and pitfalls of using computer vision to make inferences about landscape preferences: Evidence from an urban-proximate park system. *Landscape and Urban Planning*, 219, 104315. [5.441]
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#### PEER REVIEWED ARTICLES (UNDER REVIEW)

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#### ANNUAL, PROJECT, AND TECHNICAL REPORTS

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3. Leung, Y. -F., Walden-Schreiner, C., Miller, A., & **Smith, J. W.** (2018). [Statistical report of state park operations: 2016-2017 – Annual Information Exchange for the Period of July 1, 2016 through June 30, 2017](#). Raleigh, NC: Department of Parks, Recreation and Tourism Management, NC State University.
4. **Smith, J. W.** (2017). *USU Extension grant – final report: Hydrologic conditions and demand for river recreation in the North Fork of the Virgin River Wilderness Study Area*. Logan, UT: Institute of Outdoor Recreation and Tourism, Utah State University.

5. Matney, J. A., Slocumb, W. S., **Smith, J. W.**, Hipp, A. J., Smith, C. T., & Vatsavai, R. (2017). *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.
6. Leung, Y. –F., Miller, A., Walden-Schreiner, C., & **Smith, J. W.** (2017). *Statistical report of state park operations: 2015-2016 – Annual Information Exchange for the Period of July 1, 2015 through June 30, 2016*. Raleigh, NC: Department of Parks, Recreation and Tourism Management, NC State University.
7. Leung, Y. –F., **Smith, J. W.**, & Miller, A. (2016). *Statistical report of state park operations: 2014-2015 – Annual Information Exchange for the Period of July 1, 2014 through June 30, 2015*. Raleigh, NC: Department of Parks, Recreation and Tourism Management, NC State University.
8. 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.
9. **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.
10. **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.
11. **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.
12. 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.
13. **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.
14. **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.

#### **PUBLICLY AVAILABLE PROJECT DATA**

1. ^**Smith, J. W.** & Wilkins, E. J. (2021). *Bears Ears National Monument and outdoor recreation in San Juan County, Utah*. Ann Arbor, MI: Inter-University Consortium for Political and Social Research. [194 views; 194; 14 downloads]
2. ^**Smith, J. W.**, & Zhang, H. (2021). *Measuring and mapping visitation to public lands in Utah with social media*. Ann Arbor, MI: Inter-University Consortium for Political and Social Research. [313 views; 23 downloads]
3. ^Brice, E., Miller, B. A., Zhang, H., Goldstein, K., Zimmer, S., Grosklos, G., Belmont, P., Flint, C. G., Givens, J., Brunson, M., Adler, P., & **Smith, J. W.** (2020). *Impacts of climate change on the management of multiple uses of BLM land in the IMW*. Hydroshare. [723 views; 21 downloads]

4. ^Wilkins, E. J., & **Smith, J. W.** (2020). *Weather & summer spatial behavior of U. S. National Park Visitors (Flickr data 2006 – 2018)*. Ann Arbor, MI: Inter-University Consortium for Political and Social Research. [1,418 views; 50 downloads]
5. ^Sanchez, G. M., Terando, A., **Smith, J. W.**, Garcia, A. M., Wagner, C. R., & Meentemeyer, R. K. (2020). *Land-use and water demand projections (2012 to 2065) under different scenarios of environmental change for North Carolina, South Carolina, and coastal Georgia*. U. S. Geological Survey. [View and download data not available]
6. Keane, R.<sup>†</sup>, & **Smith, J. W.** (2019). *Social media use and preferences of visitors to Crater Lake National Park: Data from a 2014 on-site survey*. Logan, UT: Utah State University. [98 views; 83 downloads]
7. **Smith, J. W.**, & Leung, Y. -F. (2019). *Select metrics describing the operations of America's state park systems*. Logan, UT: Utah State University. [131 views; 72 downloads]

#### 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.

[560 downloads]

#### 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.

[Download data not available]

#### PRESENTATIONS:

##### PEER REVIEWED CONFERENCE PROCEEDINGS

1. ^Zhang, H., & **Smith, J. W.** (2020, June). *Validating the use of social media data to measure visitation to public lands in Utah*. In, *Travel and Tourism Research Association: Advancing Tourism Research Globally*. Victoria, British Columbia: Travel and Tourism Research Association.
2. **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.
3. **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.
4. **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.
5. 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.

6. **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 10<sup>th</sup> Biennial Conference on Communication and the Environment* (pp. 62-73). Portland, ME: University of Maine, Department of Communications & Journalism.
7. **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.
8. **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.

#### COORDINATED SESSIONS AT NATIONAL AND INTERNATIONAL SYMPOSIA

1. Wilkins, E. J.<sup>†</sup>, & **Smith, J. W.** (2018, June). *Social media and natural resource management*. Organized session for the International Symposium on Society and Resource Management, Snowbird, Utah.
2. Zhang, H.<sup>†</sup>, & **Smith, J. W.** (2018, June). *Modeling dynamic spatial and temporal patterns in outdoor recreation behavior*. Organized session for the International Symposium on Society and Resource Management, Snowbird, Utah.
3. **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.
4. 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.
5. **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. <sup>^</sup>**Smith, J. W.**, Miller, Z. D., Miller, A. B., Wilkins, E. J.<sup>†</sup>, Lamborn, C. C., Beeco, A., & Anderson, S. (2023, June). *Characteristics, spending profiles, and preferences of night sky recreationists in Utah*. Paper presented at the International Association for Society and Natural Resources conference, Portland, Maine.
2. <sup>^</sup>Wilkins, E. J.<sup>†</sup>, Chikamoto, Y., Miller, A. B., & **Smith, J. W.** (2022, September). *Climate change and visitation to public lands in the Southwest*. Paper presented at the 16<sup>th</sup> Biennial Conference of Science and Management for the Colorado Plateau and Southwest Region, Flagstaff, Arizona.
3. <sup>^</sup>Lamborn, C.<sup>†</sup>, & **Smith, J. W.** (2022, May). *Mapping social-ecological impacts of fires in salmon fisheries*. Paper presented at the Pathways 2021: Human Dimensions of Wildlife Conference, Virtual and Bremerton, Washington.
4. <sup>^</sup>Powell, J., **Smith, J. W.**, & Rumore, D. (2021, May). *GNAR(ly) challenges, rad solutions: The GNAR Initiative – A gateway community resource*. Paper presented at the Annual Conference of the National Association of Community Development Extension Professionals (NACDEP), Virtual.

5. ^Zhang, H.<sup>†</sup>, & **Smith, J. W.** (2020, June). *Validating the use of social media data to measure visitation to public lands in Utah*. Paper presented at the Travel and Tourism Research Association's 50<sup>th</sup> Annual International Conference, Victoria, British Columbia.
6. ^Wilkins, E. J.<sup>†</sup>, & **Smith, J. W.** (2020, April). *Temperatures, extreme heat events, and the spatial behavior of national park visitors*. Paper presented at the Association of American Geographers' Annual Meeting, Denver, Colorado. \*Conference cancelled due to the COVID-19 pandemic.
7. **Smith, J. W.**, & Sausser, B.<sup>†</sup> (2019, October). *The formation of state offices of outdoor recreation and an analysis of their ability to partner with federal land management agencies*. Paper presented at the 2019 Sustainable Tourism and Outdoor Recreation Conference, Astoria, Oregon.
8. Dupéy, L. N.<sup>†</sup>, & **Smith, J. W.** (2019, June). *Close but no cigar: How a near-miss wildfire event influences the risk perceptions and mitigation behaviors of residents who experienced a recent, nearby wildfire*. Paper presented at the International Symposium on Society and Resource Management, Oshkosh, Wisconsin.
9. Van Berkel, D., Tieskens, K., **Smith, J. W.**, Neale, A., & Mehaffey, M. (2019, May). *Leveraging social media to map America's recreational areas*. Paper presented at the National Outdoor Recreation Conference, Rapid City, South Dakota.
10. Wilkins, E. J.<sup>†</sup>, **Smith, J. W.**, Wood, S. A., & Milnor, A. (2019, May). *Estimating park visitation using social media data*. Paper presented at the National Outdoor Recreation Conference, Rapid City, South Dakota.
11. Lamborn, C. C.<sup>†</sup>, & **Smith, J. W.** (2019, May). *Impacts of drought and the outbreak of proliferative kidney disease on recreational angling in the Yellowstone river watershed*. Paper presented at the National Outdoor Recreation Conference, Rapid City, South Dakota.
12. Sanchez, G. M.<sup>†</sup>, **Smith, J. W.**, Sun, G., Cohen, E., & Meentemeyer, R. K. (2019, April). *Forecasting water supply stress through integrated models of water demand and environmental change*. Paper presented at the US Regional Association of the International Association for Landscape Ecology, Fort Collins, Colorado.
13. Sausser, B.<sup>†</sup>, **Smith, J. W.**, Sherwood, K., Milnor, A., & Ratcliffe, B. (2019, April). *Elevating outdoor recreation together: State offices and potential partnerships in outdoor recreation, conservation, and economic development*. Paper presented at the National Environment and Recreation Research Symposium, Annapolis, Maryland.
14. **Smith, J. W.**, & Zhang, H.<sup>†</sup> (2018, October). *Monitoring visitation dynamics to national forests in the Intermountain West with social media data*. Paper presented at the Society of American Foresters' National Convention, Portland, Oregon.
15. Lamborn, C. C.<sup>†</sup>, & **Smith, J. W.** (2018, June). *Exploring the impacts of drought and the outbreak of proliferative kidney disease on recreational angling in the Yellowstone River Watershed*. Paper presented at the International Symposium on Society and Resource Management, Snowbird, Utah.
16. Sausser, B.<sup>†</sup>, **Smith, J. W.**, Sherwood, K., Milnor, A., & Ratcliffe, B. (2018, June). *Collaborative state and federal partnerships in outdoor recreation: A nationwide comparison of state outdoor recreation initiatives*. Paper presented at the International Symposium on Society and Resource Management, Snowbird, Utah.
17. Gayle, R.<sup>†</sup>, Baggio, J., & **Smith, J. W.** (2018, June). *Sociodemographic and climatic factors shaping the development of drought policies in major U.S. cities*. Paper presented at the International Symposium on Society and Resource Management, Snowbird, Utah.

18. Wilkins, E. J.<sup>†</sup>, & **Smith, J. W.** (2018, June). *Using Twitter to understand the travel behaviors of skiers and snowboarders in Utah's central Wasatch mountains*. Paper presented at the International Symposium on Society and Resource Management, Snowbird, Utah.
19. Zhang, H.<sup>†</sup>, & **Smith, J. W.** (2018, June). *The temporally-dynamic influences of weather and air quality on winter use of Utah's Big and Little Cottonwood Canyons*. Paper presented at the International Symposium on Society and Resource Management, Snowbird, Utah.
20. Sausser, B.<sup>†</sup>, **Smith, J. W.**, Ratcliffe, B., & Sherwood, K. (2018, April). *A comparison of state-level outdoor recreation initiatives*. Poster presented at the 2018 National Outdoor Recreation Conference, Burlington, Vermont.
21. Sanchez, G. M.<sup>†</sup>, **Smith, J. W.**, Terando, A., & Meentemeyer, R. K. (2018, April). *Forecasting urbanization and future water demands of a rapidly growing megaregion*. Paper presented at the US Regional Association of the International Association for Landscape Ecology, Chicago, Illinois.
22. Smart, L. S., **Smith, J. W.**, & Meentemeyer, R. K. (2018, February). *Factors driving landowners' climate change adaptation strategies in coastal North Carolina*. Paper presented at the 2018 Social Coast Conference, Charleston, South Carolina.
23. Smart, L. S.<sup>†</sup>, Taillie, P. J., **Smith, J. W.**, & Meentemeyer, R. K. (2017, December). *Quantifying the spatio-temporal impacts of sea level rise on carbon storage using repeat LiDAR surveys and multispectral satellite imagery*. Paper presented at the American Geophysical Union Fall Meeting, New Orleans, Louisiana.
24. **Smith, J. W.**, & Lamborn, C. C.<sup>†</sup> (2017, September). *Climate change and fishing in the Intermountain West*. Paper presented at the Pathways: Integrating Human Dimensions into Fisheries and Wildlife Management Conference, Estes Park, Colorado.
25. **Smith, J. W.**, & Gilbert, L. (2017, August). *Engagement with outdoor recreation and tourism social media: A self-evaluation of the Institute of Outdoor Recreation and Tourism at Utah State University*. Poster presented at the National Extension Tourism 2017 Conference, Princeton, New Jersey.
26. **Smith, J. W.** (2017, August). *Developing and evaluating a web-based climatological tool for tourism providers*. Paper presented at the National Extension Tourism 2017 Conference, Princeton, New Jersey.
27. McCreary, A.<sup>†</sup>, Fatorić, S., Seekamp, E., **Smith, J. W.**, Kanazawa, M., & Davenport, M. A. (2017, June). *Predicting visitors' willingness-to-pay for climate change adaptation planning in a nature-based tourism destination*. Paper presented at the International Symposium on Society and Resource Management, Umea, Sweden.
28. Leung, Y. -F., Miller, A., Walden-Schreiner, C., **Smith, J. W.**, & Ledford, L. (2017, June). *Long-term monitoring of state park operations in the U.S.* Poster presented at the International Symposium on Society and Resource Management, Umea, Sweden.
29. **Smith, J. W.** (2017, June). *The direct and indirect impacts of climate change on outdoor recreation: Empirical examples from the high deserts of the Intermountain West, USA*. Paper presented at the International Symposium on Society and Resource Management, Umea, Sweden.
30. Jones, G. J., Edwards, M. B., Bunds, K. S., Bocarro, J. N., & **Smith, J. W.** (2017, June). *Challenges to facilitating shared leadership in community sport organizations*. Paper presented at the 2017 North American Society for Sport Management Conference, Denver, Colorado.

31. **Smith, J. W.**, & Gilbert, L. (2017, May). *Social media for communicating outdoor recreation research*. Poster presented at the 2017 National Outdoor Recreation Conference, Scottsdale, Arizona.
32. **Smith, J. W.**, & Nofield, S. (2017, May). *Measuring benefits from community-led conservation projects*. Paper presented at the 2017 National Outdoor Recreation Conference, Scottsdale, Arizona.
33. Dorning, M. A., Koch, J., Beck, S., Sanchez, G. M.<sup>†</sup>, Shashidharan, A., Smart, L. S.<sup>†</sup>, **Smith, J. W.**, Van Berkel, D., Zhang, Q., & Meentemeyer, R. K. (2017, April). *A combined ABM-CA approach for analyzing effects of peer-influence and landowner decision-making processes on urbanization patterns*. Paper presented at the US Regional Association of the International Association for Landscape Ecology, Baltimore, Maryland.
34. Koch, J., Dorning, M. A., Beck, S., Van Berkel, D., Sanchez, G.<sup>†</sup>, Shashidharan, A., Smart, L.<sup>†</sup>, **Smith, J. W.**, Zhang, Q., & Meentemeyer, R. K. (2017, April). *A combined ABM-CA approach for analyzing effects of peer-influence and landowner decision-making processes on patterns of urban development*. Poster presented at the National Science Foundation Agent-Based Modeling Workshop, San Diego, California.
35. Sanchez, G. M.<sup>†</sup>, **Smith, J. W.**, Terando, A., Sun, G., & Meentemeyer, R. K. (2017, April). *Development-induced water demand: Effects of urban form and socio-ecological drivers*. Paper presented at the US Regional Association of the International Association for Landscape Ecology, Baltimore, Maryland.
36. Smart, L. S.<sup>†</sup>, Taillie, P. J., Mitasova, H., Swenson, J. J., Poulter, B., **Smith, J. W.**, & Meentemeyer, R. K. (2017, April). *Detecting coastal vegetation response to sea level rise from multi-temporal LiDAR and optical data integration*. Paper presented at the US Regional Association of the International Association for Landscape Ecology, Baltimore, Maryland.
37. **Smith, J. W.** (2017, April). *The influence of observed hydrologic and meteorological conditions on the temporal dynamics of visitation to the North Fork of the Virgin River, Utah, USA*. Paper presented at the Association of American Geographers' Annual Meeting, Boston, Massachusetts.
38. Guo, T.<sup>†</sup>, Leahy, J. E., & **Smith, J. W.** (2017, April). *Using social network analysis to inform management: A review of research and an illustrative example*. Poster presented at the George Wright Society Conference on Parks, Protected Areas, and Cultural Sites, Norfolk, Virginia.
39. Guo, T.<sup>†</sup>, **Smith, J. W.**, Moore, R. L., & Schultz, C. L. (2017, April). *Does the timing of educational messaging influence compliance with low-impact hiking recommendations?* Paper presented at the George Wright Society Conference on Parks, Protected Areas, and Cultural Sites, Norfolk, Virginia.
40. McCreary, A.<sup>†</sup>, Seekamp, E., **Smith, J. W.**, & Davenport, M. A. (2017, April). *Using social media data to identify valued recreation resources and inform climate change adaptation planning*. Paper presented at the George Wright Society Conference on Parks, Protected Areas, and Cultural Sites, Norfolk, Virginia.
41. **Smith, J. W.**, & Leung, Y. -F. (2016, November). *Temporal trends in the operating inefficiencies of U.S. state park systems*. Poster presented at the Society of American Foresters' National Convention, Madison, Wisconsin.
42. Dupéy, L. N.<sup>†</sup>, & **Smith, J. W.** (2016, November). *Perceptions of fire risk across North America: A review*. Poster presented at the Society of American Foresters' National Convention, Madison, Wisconsin.



43. Koch, J. A., Dorning, M. A.<sup>†</sup>, Beck, S., Sanchez, G. M.<sup>†</sup>, Shashidharan, A., Smart, L. S.<sup>†</sup>, **Smith, J. W.**, Van Berkel, D., Zhang, Q., & Meentemeyer, R. K. (2016, October). *Land use and urbanization*. Paper presented at the 3<sup>rd</sup> Global Land Project Open Science Meeting, Beijing, China.
44. Baran, P. K., 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.
45. Koch, J. A., Dorning, M. A., Beck, S., Sanchez, G. M.<sup>†</sup>, Shashidharan, A., Smart, L. S.<sup>†</sup>, **Smith, J. W.**, Van Berkel, D., Zhang, Q., & Meentemeyer, R. K. (2016, July). *The importance of human decision making in agent-based models of natural resource use*. Paper presented at the International Congress on Environmental Modelling and Software, Toulouse, France.
46. 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 47<sup>th</sup> International Conference, Vail, Colorado.
47. 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.
48. 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.
49. McCreary, A.<sup>†</sup>, **Smith, J. W.**, Seekamp, E., & Davenport, M. A. (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.
50. Seekamp, E., **Smith, J. W.**, & Davenport, M. A. (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.
51. Bitsura-Meszaros, K.<sup>†</sup>, **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.
52. Guo, T.<sup>†</sup>, **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.
53. Guo, T.<sup>†</sup>, **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.
54. Dupéy, L. N.<sup>†</sup>, **Smith, J. W.**, Dorning, M. A., Shoemaker, D., Méley, A., & Meentemeyer, R. K. (2016, June). *Payments for carbon storage to alleviate development pressure in a rapidly urbanizing region*. Paper presented at the International Symposium on Society and Resource Management, Houghton, Michigan.

55. **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.
56. Koch, J. A., Dorning, M. A., Beck, S., Sanchez, G. M.<sup>†</sup>, Shashidharan, A., Smart, L. S.<sup>†</sup>, **Smith, J. W.**, Van Berkel, D., Zhang, Q., & Meentemeyer, R. K. (2016, May). *A combined ABM-CA approach for analyzing effects of peer-influence and landowner decision-making processes on patterns of urban development*. Paper presented at the International Society for Ecological Modelling Global Conference 2016, Baltimore, Maryland.
57. **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.
58. Smart, L. S.<sup>†</sup>, 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.
59. Smart, L. S.<sup>†</sup>, **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.
60. **Smith, J. W.**, Smart, L. S.<sup>†</sup>, & 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.
61. Sanchez, G. M.<sup>†</sup>, 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 5<sup>th</sup> National Forum on Socioeconomic Research in Coastal Systems), New Orleans, Louisiana.
62. McCreary, A.<sup>†</sup>, Seekamp, E., **Smith, J. W.**, & Davenport, M. A. (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.
63. 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.
64. Smart, L. S.<sup>†</sup>, & **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.
65. Fatorić, 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.
66. 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.
67. Belica, L., Caldwell, P. V., Mitsova, 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.

68. McCreary, A.<sup>†</sup>, **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.
69. Bitsura-Mezzaros, K.<sup>†</sup>, **Smith, J. W.**, & McCreary, A.<sup>†</sup> (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.
70. **Smith, J. W.**, Smart, L. S.<sup>†</sup>, Sanchez, G. M.<sup>†</sup>, & 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.
71. Smart, L. S.<sup>†</sup>, & **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.
72. Keane, R.<sup>†</sup>, & **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.
73. McCreary, A.<sup>†</sup>, 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.
74. 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.
75. 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.
76. Smart, L. S.<sup>†</sup>, **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.
77. 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.
78. Bitsura-Mezzaros, K.<sup>†</sup>, **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.
79. **Smith, J. W.**, Meentemeyer, R. K., Sanchez, G. M.<sup>†</sup>, & Smart, L. S.<sup>†</sup> (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.
80. Bitsura-Meszaros, K.<sup>†</sup>, **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.
  81. Keane, R.<sup>†</sup>, & **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.
  82. **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.
  83. Bitsura-Meszaros, K.<sup>†</sup>, **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 95<sup>th</sup> American Meteorological Society Annual Meeting, Phoenix, Arizona.
  84. 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.
  85. **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.
  86. 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 45<sup>th</sup> International Conference, Brugge, Belgium.
  87. **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.
  88. **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.
  89. Baran, P. K., 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.
  90. 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.
  91. **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.

92. **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.
93. 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.
94. **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 26<sup>th</sup> International Congress for Conservation Biology, Baltimore, Maryland.
95. **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.
96. **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.
97. **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 4<sup>th</sup> National Forum on Socioeconomic Research in Coastal Systems), New Orleans, Louisiana.
98. **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 75<sup>th</sup> Annual Meeting of the Rural Sociological Society, Chicago, Illinois.
99. 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.
100. **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.
101. **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.
102. **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.
103. 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.
104. **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.
105. **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.

106. **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 73<sup>rd</sup> Annual Meeting of the Rural Sociological Society, Atlanta, Georgia.
107. **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.
108. **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.
109. **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 3<sup>rd</sup> National Forum on Socioeconomic Research in Coastal Systems), New Orleans, Louisiana.
110. 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.
111. **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.
112. **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.
113. **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.
114. **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.
115. **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. <sup>^</sup>**Smith, J. W.**, Powell, J., Trout, C., & Yang, E. (2022, September). *Strategic planning at a higher level for outdoor recreation and economic development*. Workshop at the Utah Outdoor Recreation Summit, Kamas, Utah.
2. <sup>^</sup>Richards, J. C., & **Smith, J. W.** (2022, March). *Developing strategic communications to increase non-lead ammunition use among hunters in the California condor range of Utah*. Presentation at the Utah State University Extension Annual Conference, Lehi, Utah.
3. <sup>^</sup>Varela, V., Grewe, P., Rasmussen, J., & **Smith, J. W.** [moderator] (2021, September). *Too much love: Challenges of increased tourism*. Panel discussion at the Western Governors' Association's Working Lands, Working Communities Initiative Workshop. [YouTube views: 157]

4. ^Owens, D., Meppen, D., **Smith, J. W.**, & Harrison, J. [panelist] (2021, September). *The economic importance of outdoor recreation in Utah: Bigger than you think*. Panel discussion at the Utah Outdoor Recreation Summit, Logan, Utah.
5. ^**Smith, J. W.**, Powell, J., & Sodja, L. (2021, September). *Outdoor recreation communities & the GNAR Initiative*. Presentation at the Utah Outdoor Recreation Summit, Logan, Utah.
6. ^Davison, C., & **Smith, J. W.** [panelist] (2021, June). *Destination and product development*. Panel discussion for the Destination Marketing Association of the West's Leadership Summit for CEOs, Virtual.
7. ^Chelak, M., **Smith, J. W.**, Monz, C., & Messmer, T. (2020, March). *Off-highway vehicle recreation use effects on greater sage-grouse habitat fragmentation in the Sheeprack Mountains: A case study*. Presentation at the Utah Chapter of the Wildlife Society Meeting, Moab, Utah.
8. Messmer, T., & **Smith, J. W.** (2019, February). *Utah lands management project*. Presentation at the Utah Cooperative Wildlife Management Units Association Winter Meeting, Salt Lake City, Utah.
9. **Smith, J. W.** (2019, February). *Recreational ATVs in Sage-grouse Country*. Paper presented at the Utah All Lands-All Hands Summit, Salt Lake City, Utah.
10. **Smith, J. W.** (2019, February). *Utah lands management evaluation and assessment network*. Paper presented at the Utah All Lands-All Hands Summit, Salt Lake City, Utah.
11. Chelak, M., Muhlestein, B.<sup>†</sup>, **Smith, J. W.**, & Messmer, T. (2018, October). *Greater Sage-grouse (Centrocercus urophasianus) habitat selection in response to off-highway vehicle recreation in the Sheeprack Mountains, Utah, USA*. Poster presented at the Restoring the West Conference, Logan, Utah.
12. Lamborn, C. C.<sup>†</sup>, & **Smith, J. W.** (2018, March). *Exploring the impacts of drought and the outbreak of proliferative kidney disease on recreational angling in the Yellowstone River watershed*. Poster presented at the 2018 Spring Runoff Conference, Logan, Utah.
13. McCreary, A.<sup>†</sup>, Seekamp, E., Larson, L., **Smith, J. W.**, & Davenport, M. A. (2018, March). *A tale of two seasons and other predictors of climate-related coping behaviors by outdoor recreationists*. Paper presented at the Southeastern Recreation Research Symposium, Asheville, North Carolina.
14. Sanchez, G. M.<sup>†</sup>, **Smith, J. W.**, Terando, A., Sun, G., & Meentemeyer, R. K. (2018, March). *Forecasting urbanization and future water demands of a rapidly growing megaregion*. Poster presented at the 13<sup>th</sup> Annual NC State University Graduate Student Research Symposium, Raleigh, North Carolina.
15. Sanchez, G. M.<sup>†</sup>, **Smith, J. W.**, Terando, A., Sun, G., & Meentemeyer, R. K. (2018, February). *Development-induced water demand: Effects of urban form and socio-ecological drivers*. Paper presented at the 6<sup>th</sup> University of Florida Water Institute Symposium, Gainesville, Florida.
16. Henderson, M., Seekamp, E., & **Smith, J. W.** (2017, March). *Voices from the edge: Place connections and perceptions of vulnerable cultural resources at Cape Lookout National Seashore*. Paper presented at the Southeastern Recreation Research Symposium, Asheville, North Carolina.
17. Koch, J., Dorning, M. A., Beck, S., Sanchez, G.<sup>†</sup>, Shadshidharan, A., Smart, L.<sup>†</sup>, **Smith, J. W.**, Van Berkel, D., Zhang, Q., & Meentemeyer, R. K. (2016, October). *A combined ABM-CA approach for analyzing effects of peer-influence and landowner decision-making processes on patterns of urban development*. Paper presented at the 2016 Southwest Division of the Association of American Geographers Annual Meeting, Denton, Texas.

18. Dupéy, L. N.<sup>†</sup>, & **Smith, J. W.** (2016, October). *Perceptions of fire risk across the western United States: A review*. Poster presented at the Restoring the West Conference, Logan, Utah.
19. Keane, R.<sup>†</sup>, & **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.
20. Wilson, B., Holmberg, K., Nieber, J., Davenport, M. A., **Smith, J. W.**, Seekamp, E., McCreary, A.<sup>†</sup>, & 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.
21. 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.
22. Sanchez, G. M.<sup>†</sup>, Smart, L. S.<sup>†</sup>, **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.
23. Keane, R.<sup>†</sup>, & **Smith, J. W.** (2015, March). *Online information sources and social media usage by visitors to Crater Lake National Park*. Poster presented at the 10<sup>th</sup> Annual NC State University Graduate Student Research Symposium, Raleigh, North Carolina.
24. 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.
25. Bitsura-Meszaros, K.<sup>†</sup>, **Smith, J. W.**, McCreary, A.<sup>†</sup>, 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.
26. 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.
27. McCreary, A.<sup>†</sup>, Keane, R.<sup>†</sup>, 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.
28. McCreary, A.<sup>†</sup>, 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.
29. 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.
30. 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.



31. Conlon, K., Mayer, J., Adams, B., Walden-Schreiner, C., Crouse, E., Guo, T.<sup>†</sup>, 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.
32. 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 9<sup>th</sup> Annual NC State University Graduate Student Research Symposium, Raleigh, North Carolina.
33. **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.
34. **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.
35. 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.
36. **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.
37. 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.
38. **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 2<sup>nd</sup> annual Communication, Rhetoric, and Digital Media Research Symposium, Raleigh, North Carolina.
39. **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.
40. **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.
41. **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 5<sup>th</sup> Annual NC State University Graduate Student Research Symposium, Raleigh, North Carolina.
42. **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.
43. **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.

44. **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.
45. **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.
46. **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.
47. 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.
48. 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.
49. **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. ^Spornbauer, B., Monz, C., & **Smith, J. W.** (2022, June). *Alternative transportation systems as a management tool in national parks: Understanding effects and trade-offs*. National Park Service Managed Access Workgroup [virtual presentation].
2. ^**Smith, J. W.** (2021, October). *Trends in the use and funding of Maryland State Parks*. Maryland State Park Investment Commission, Baltimore, MD [virtual presentation].
3. ^**Smith, J. W.** (2020, August). *The state of outdoor recreation in Utah with a focus on Cache Valley*. Presentation to the Rotary Club of Logan, Logan, UT [virtual presentation].
4. ^**Smith, J. W.** (2020, January). *The state of outdoor recreation in Utah*. Presentation for Outdoor Recreation Strategic Plan meeting convened by Utah Speaker of the House of Representatives, Brad Wilson, Salt Lake City, Utah.
5. Sanchez, G. M.<sup>†</sup>, **Smith, J. W.**, Terando, A., Garcia, A., Wagner, C., & Meentemeyer, R. K. (2018, April). *Forecasting urbanization and future water demands of a rapidly growing megaregion*. Paper presented for the Department of Forestry and Environmental Resources (NC State University) seminar series, Raleigh, North Carolina.
6. Lamborn, C. C.<sup>†</sup>, & **Smith, J. W.** (2018, March). *Exploring drought-induced trends in the Intermountain West's freshwater fisheries*. Paper presented for the Utah Division of Wildlife Resources' brown bag luncheon series, Salt Lake City, Utah.
7. **Smith, J. W.**, Wilkins, E. J.<sup>†</sup>, & Zhang, H.<sup>†</sup> (2018, February). *Shifting trends in outdoor recreation activity across Utah*. Paper presented for the Utah Division of Wildlife Resources' brown bag luncheon series, Salt Lake City, Utah.
8. **Smith, J. W.** (2017, May). *Effects of drought on recreation in Region 3*. Paper presented at the Adapting to Drought in the Southwestern Region Workshop hosted by the USDA Forest Service's Office of Sustainability and Climate Change, Albuquerque, New Mexico.

9. **Smith, J. W.** (2017, April). *The impacts of drought on recreational fishing: Recent evidence and adaptation strategies*. Paper presented at the Climate Change and Drought: Adaptation in the Rocky Mountain Region Workshop hosted by the USDA Forest Service's Office of Sustainability and Climate Change, Salida, Colorado.
10. **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.
11. **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.
12. **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.
13. **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.
14. **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.
15. **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.
16. **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.

#### **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. g

**AWARDS AND HONORS:**

- 2017 Proposal Writing Institute participant. Office of Research and Graduate Studies, Utah State University.
- 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 University 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 Management.
- 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.

## MENTORING

### ADVISING:

#### COMMITTEE CHAIR (\*CO-CHAIR)

|                        |     |  |             |
|------------------------|-----|--|-------------|
| ^Chase C. Lamborn      | PhD | – Environment and Society<br><b>Utah State University</b><br><b>Dissertation:</b> A social-ecological approach to understand the structure, function, and challenges faced by fisheries<br><b>Currently:</b> Assistant Director of Visitor Use Monitoring and Management, Institute of Outdoor Recreation and Tourism, Utah State University | 2017 – 2022 |
| ^Hongchao Zhang        | PhD | – Environment and Society<br><b>Utah State University</b><br><b>Dissertation:</b> Measuring, mapping, and managing outdoor recreation on public lands in Utah with social media<br><b>Currently:</b> Assistant Professor, Hunan Normal University  | 2017 – 2021 |
| ^Lauren (Dupéy) Larsen | PhD | – Environment and Society<br><b>Utah State University</b><br><b>Dissertation:</b> Community preparation for, and responses to, wildland fire in the Intermountain West<br><b>Currently:</b> Natural Resources Educator, University of Wisconsin-Madison  | 2016 – 2020 |
| ^Emily J. Wilkins      | PhD | – Environment and Society<br><b>Utah State University</b><br><b>Dissertation:</b> Using social media to assess the impact of weather and climate on visitation to outdoor recreation settings<br><b>Currently:</b> Research Social Scientist, United States Geological Survey  | 2017 – 2020 |
| Georgina M. Sanchez*   | PhD | – Forestry and Environ. Resources (Minor: GIS)<br><b>NC State University</b><br><b>Dissertation:</b> Forecasting water scarcity through integrated models of environmental change<br><b>Currently:</b> Post-doctoral Research Scientist, NC State University   | 2014 – 2018 |
| Lindsey S. Smart*      | PhD | – Forestry and Environ. Resources (Minor: GIS)<br><b>NC State University</b><br><b>Dissertation:</b> Rising seas and the changing coastal landscape: Integrating land change pattern and process to quantify the socio-ecological impacts of sea level rise<br><b>Currently:</b> Post-doctoral Research Scientist, NC State University       | 2014 – 2018 |
| Allie McCreary*        | PhD | – Parks, Recreation and Tourism Management<br><b>NC State University</b><br><b>Dissertation:</b> A place-based framework for assessing climate change impacts to nature-based tourism: Why attributes, activities and meanings matter<br><b>Currently:</b> Assistant Professor, Western Kentucky University                                  | 2014 – 2017 |
| Tian Guo*              | PhD | – Parks, Recreation and Tourism Management<br><b>NC State University</b><br><b>Dissertation:</b> Examining environmentally significant recreation behavior on the Appalachian Trail<br><b>Currently:</b> Assistant Professor, Colorado State University  | 2012 – 2016 |
| ^Glendon VanSandt*     | MS  | – Recreation Resource Management<br><b>Utah State University</b><br><b>Thesis:</b> Indicators and thresholds for cave and karst recreation experiences   | 2022 –      |
| ^Casey Trout*          | MS  | – Environment and Society<br><b>Utah State University</b><br><b>Thesis:</b> State funding models for outdoor recreation management and promotion in the Western United States  | 2022 –      |
| ^Will Rempel           | MS  | – Recreation Resources Management<br><b>Utah State University</b><br><b>Thesis:</b> Recreational fishing participation in Utah: Comparing active and non-active angler constraint perceptions with the use of license purchase data  | 2020 – 2022 |
| ^Bettina Spornbauer*   | MS  | – Recreation Resources Management<br><b>Utah State University</b><br><b>Thesis:</b> Dimensions of visitor movement in parks and protected areas: A holistic look at alternative transportation systems and an exploration of informal trail networks   | 2020 – 2022 |

|                         |             |  |             |
|-------------------------|-------------|--|-------------|
| ^Elizabeth Depew        | MS          | – Recreation Resources Management<br>Utah State University<br>Thesis: Investigating factors that impact income generation and distribution in Western national park gateway communities  | 2020 – 2022 |
| ^Jake Richards          | MS          | – Recreation Resources Management<br>Utah State University<br>Thesis: Stewards and conservationists: Merging moral norms and the theory of planned behavior to understand altruistic conservation behavior among hunters in southwestern Utah  | 2020 – 2022 |
| Adam Hestetune          | MS (Plan B) | – Recreation Resources Management<br>Utah State University<br>Project: Do changing resource conditions displace fishers? A study of contingent travel behaviors and substitution patterns on Minnesota’s North Shore   | 2017 – 2019 |
| Brooke Sausser          | MS          | – Recreation Resources Management<br>Utah State University<br>Thesis: Elevating outdoor recreation together: Opportunities for collaboration between state offices of outdoor recreation and federal land management agencies, the outdoor recreation industry, nongovernmental organizations, and local outdoor recreation providers<br>Currently: Community Planning Manager, Jackson Hole Conservation Alliance | 2017 – 2019 |
| Riana Gayle*            | MS          | – Ecology<br>Utah State University<br>Thesis: Sociodemographic and climatic factors shaping the development of drought policies in major U.S. cities<br>Currently: Data Analyst, Western Rural Development Center  | 2016 – 2018 |
| Karly Bitsura-Meszaros* | MS          | – Natural Resources (Outdoor Rec. Tech. Option)<br>NC State University<br>Thesis: Exploring local knowledge and capacities to address climate risk and adaptation along the North Shore of Minnesota<br>Currently: PhD student, NC State University  | 2013 – 2015 |
| Rosemary Keane          | MS          | – Natural Resources (Outdoor Rec. Tech. Option)<br>NC State University<br>Thesis: Social media and the National Park Service: A case study of visitor preferences at Crater Lake National Park<br>Currently: Outreach and Communication Specialist, USAID Soybean Innovation Lab, University of Illinois at Urbana-Champaign   | 2014 – 2016 |

**COMMITTEE MEMBER**

|                            |     |   |                |
|----------------------------|-----|---|----------------|
| ^Melissa Chelak            | PhD | – Ecology<br>Utah State University                                      | 2016 – current |
| ^Krystyna Dillard-Crawford | MNR | – Natural Resources<br>Utah State University                            | 2021 – current |
| Alexi Lamm                 | PhD | – Environment and Society<br>Utah State University                      | 2015 – 2020    |
| Leandro Nascimento         | PhD | – Ecology<br>Utah State University                                      | 2015 – 2020    |
| Laura Belica               | PhD | – Forestry and Environ. Resources (Minor: GIS)<br>NC State University   | 2015 – 2019    |
| Gwendwr Meredith           | PhD | – Human Dimensions of Ecosystem Sci. and Mgmt.<br>Utah State University | 2014 – 2019    |
| Jason Matney               | PhD | – Geospatial Analytics<br>NC State University                           | 2015 – 2019    |
| Ginger Deason              | PhD | – Parks, Recreation and Tourism Management<br>NC State University       | 2013 – 2018    |
| Jing Li                    | PhD | – Parks, Recreation and Tourism Management                              | 2013 – 2017    |

|                   |  |  |             |
|-------------------|--|--|-------------|
|                   | NC State University  |  |             |
| Gareth Jones      | PhD – Parks, Recreation and Tourism Management<br>NC State University      |  | 2013 – 2016 |
| Robert Radics     | PhD – Forest Biomaterials<br>NC State University                           |  | 2012 – 2015 |
| Birendra KC       | PhD – Parks, Recreation and Tourism Management<br>NC State University      |  | 2012 – 2015 |
| Yuchen Mao        | PhD – Parks, Recreation and Tourism Management<br>NC State University      |  | 2011 – 2014 |
| Justin Jacques    | MS – Environmental Planning<br>Utah State University                       |  | 2020 –      |
| Robin Graham      | MS – Human Dimensions of Ecosystem Sci. and Mgmt.<br>Utah State University |  | 2014 – 2021 |
| Noah Creany       | MS – Recreation Resource Management<br>Utah State University               |  | 2017 – 2019 |
| Liz Cook          | MS – Geography<br>Utah State University                                    |  | 2016 – 2018 |
| Malorey Henderson | MS – Parks, Recreation and Tourism Management<br>NC State University       |  | 2015 – 2017 |
| Tyler Hays        | MS – Forest Biomaterials<br>NC State University                            |  | 2014 – 2017 |
| Erin Crouse       | MS – Natural Resources (Outdoor Rec. Tech. Option)<br>NC State University  |  | 2012 – 2016 |
| Matt Whitlow      | MNR – Natural Resources (Outdoor Rec. Tech. Option)<br>NC State University |  | 2013 – 2015 |

#### EXTERNAL EXAMINER

|             |  |  |             |
|-------------|--|--|-------------|
| ^Safa Molan | PhD – Environmental Science<br>University of South Australia |  | 2016 – 2022 |
|-------------|--|--|-------------|

#### POST-DOCTORAL RESEARCH SUPERVISOR

|                   |  |  |                   |
|-------------------|--|--|-------------------|
| ^Eunjung Yang     | Projects: <i>An assessment of the location of the Bears Ears visitor center; Analysis and planning support to guide the development of Utah's Outdoor Recreation Strategic Plan</i><br>Utah State University           |  | 09/2021 – 02/2023 |
| ^Emily J. Wilkins | Projects: <i>The economic impact and visitor experiences of Utah's night skies; The CO<sub>2</sub>-e emissions generated by outdoor recreation and tourism: From measurement to messaging</i><br>Utah State University |  | 09/2020 – 09/2021 |
| Zahra Zamani      | Project: <i>Contingent valuation of multi-functional agricultural landscapes using virtually simulated environments and online marketplaces</i><br>NC State University   |  | 07/2013 – 05/2014 |

#### VISITING SCHOLAR HOST

|                  |   |                   |
|------------------|---|-------------------|
| Natalia Pankeeva | Lecturer, Irkutsk State University<br>Fulbright Visiting Researcher           | 08/2016 – 01/2017 |
| Jiao Li          | Associate Professor, Hunan Normal University<br>Fulbright Visiting Researcher | 08/2018 – 06/2019 |

#### COMPETITIVE GRANTS/AWARDS OBTAINED BY ADVISEES

- **Wilkins, E. J.** 2018 Summer School on Sustainable Climate Risk Management at Penn State University. Award: Lodging, meals, registration, and travel.
- **Wilkins, E. J.** 2017-2018 Utah State University Climate Adaptation Science Fellowship. Award: \$32,000
- **Gayle, R.** 2017 Center for Behavior, Institutions and the Environment Winter School on “How to model human decision-making in socio-ecological agent-based models” participant. Award: Participation
- **Smart, L. S.** 2017 Center for Behavior, Institutions and the Environment Winter School on “How to model human decision-making in socio-ecological agent-based models” participant. Award: Participation
- **Smart, L. S.** SESYNC Short Course on “Introduction to spatial agent-based modeling” participant. Award: Lodging and per diem
- **Smart, L. S.** 2017 NC Sea Grant/NC Space Grant Graduate Research Fellowship. Award: \$10,000
- **McCreary, A.** 2016 – 2017 North Carolina Recreation and Parks Scholarship Foundation Fletcher Graduate Scholarship. Award: \$1,500
- **Bitsura-Meszáros, K.** 2016 – 2017 Southeast Climate Science Center Global Change Fellowship. Award: \$12,000
- **Bitsura-Meszáros, K.** 2015 – 2016 NC State Provost Doctoral Recruitment Fellowship. Award: \$23,000
- **McCreary, A.** 2015 – 2016 North Carolina Recreation and Parks Scholarship Foundation Fletcher Graduate Scholarship. Award: \$1,500
- **Drake, M., Valdez, R., Popp, A., & Bitsura-Meszáros, K.** NC State University Sustainability Fund Project Award. Award: \$2,200
- **Sanchez, G. M.** 2015 – 2016 Southeast Climate Science Center Global Change Fellowship. Award: \$12,000
- **McCreary, A., Bitsura-Meszáros, K., & Gonzalez-Jueck, G.** NC State University Graduate Student Association Block Grant Award. Award: \$300
- **Keane, R., & McCreary, A.** CUAHSI’s 2014 Challenge Grant Award. Award \$4,000
- **Smart, L. S.** 2014 – 2015 NC State Provost Doctoral Recruitment Fellowship. Award: \$21,000
- **Keane, R.** 2014 Crater Lake National Park Science and Learning Fellowship. Award: \$2,500



## TEACHING

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### TEACHING EXPERIENCE:

#### COURSES TAUGHT

1. *Special Projects in Recreation Management* (Utah State, ENVS 4920) – This course serves as the capstone course for the Department of Environment and Society’s Recreation Resource Management degree. Students engage in special projects where they assist public recreation agencies or nonprofit organizations throughout the Intermountain West. The course is intended to give students hands-on experience in outdoor recreation management, planning, and monitoring. Spring 2020 (6 students), Fall 2019 (3 students), Spring 2019 (1 student).
2. *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.
3. *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.
4. *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.
5. *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.
6. *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.

7. *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.
8. *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.
9. *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.
10. *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.
11. *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 using 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.

## SERVICE

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### JOURNAL ARTICLE REVIEWS (139 SINCE 2010 = 9.9 PER YEAR)

*Journal* (Manuscripts, not counting revisions)  
*African Journal of Environmental Science and Technology* (1)  
*AIMS Environmental Science* (1)  
*American Journal of Preventive Medicine* (1)  
*Annals of Leisure Research* (1)  
*Annals of the American Association of Geographers* (2)  
*Climatic Change* (2)  
*Community Development* (1)  
*Ecological Applications* (1)  
*Ecological Indicators* (11)  
*Environment & Behavior* (2)  
*Environmental Communication* (5)  
*Environmental Management* (2)  
*Fire* (1)  
*Forest Science* (2)  
*Forests* (2)  
*Frontiers in Psychology* (1)  
*Geoforum* (1)  
*Geoinformatica* (1)  
*Global Ecology and Conservation* (1)  
*Human Dimensions of Wildlife* (4)  
*Human Ecology* (3)  
*International Forestry Review* (1)  
*International Journal of Public Administration* (1)  
*JCOM* (1)  
*Journal of Applied Meteorology and Climatology* (1)  
*Journal of Coastal Research* (2)  
*Journal of Environmental Management* (4)  
*Journal of Environmental Planning and Management* (1)  
*Journal of Forestry* (2)  
*Journal of Hydrometeorology* (1)  
*Journal of Leisure Research* (2)  
*Journal of Nature Conservation* (1)  
*Journal of Outdoor Recreation and Tourism* (8)  
*Journal of Park and Recreation Administration* (2)  
*Journal of the American Water Resources Association* (1)  
*Journal of Unconventional Parks, Tourism, and Recreation Research* (1)  
*Landscape and Urban Planning* (11)  
*Landscape Research* (1)  
*Leisure/Loisir* (1)  
*Leisure Sciences* (11)  
*People and Nature* (2)  
*PLOS Global Public Health* (1)  
*Rural Sociology* (1)  
*Science of the Total Environment* (1)  
*Social Indicators Research* (2)  
*Social Sciences* (1)  
*Society & Natural Resources* (17)

*Sustainability* (1)  
*Sustainability Science* (1)  
*Sustainable Cities and Society* (1)  
*Urban Planning* (1)  
*Urban Studies* (1)  
*Weather and Forecasting* (1)  
*Weather, Climate and Society* (4)  
*World Development* (1)  
*World Leisure Journal* (1)

#### **JOURNAL ASSOCIATE EDITOR OR EDITORIAL BOARD MEMBER**

*Journal* (Manuscripts)  
*Journal of Park and Recreation Administration* (2)  
*Leisure Sciences* (15)  
*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; 7)

#### **TECHNICAL REPORT CHAPTER REVIEWER**

Publisher (Technical Report Chapters)  
USDA Forest Service (2)

#### **BOOK PROPOSAL REVIEWS**

*Publisher* (Reviews)  
*Elsevier* (1)  
*Taylor & Francis/CRC Press* (1)  
*Wiley-Blackwell* (1)

#### **EXTENSION MATERIALS REVIEWED**

Type of Material (number of reviews, not counting revisions)  
*Fact Sheets* (1)

#### **CONFERENCE PLANNING AND HOSTING**

- ^2021 Basecamp Conference and Workshop, Tucson, Arizona (Organizer)
- 2018 International Symposium on Society and Resource Management, Snowbird, Utah (Co-chair of symposium planning committee)
- 2015 International Symposium on Society and Resource Management, Charleston, South Carolina (Symposium planning committee member)

#### **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)  
*National Extension Tourism Conference* (1)  
*Northeastern Recreation Research Symposium* (2)  
*Southeastern Recreation Research Symposium* (1)

#### **GRANT PROPOSAL REVIEWS**

*Agency, Competition (Years serving as reviewer)*  
*Estonian Research Council (1)*  
*Maine Sea Grant, Biennial Research Call (1)*  
*Maryland Sea Grant, Biennial Research Call (1)*  
*USDA NIFA Multistate Research Funds Program (1)*

**COLLEGE, DEPARTMENTAL AND CENTER COMMITTEES**

- ^2022 – current: Utah State University, Department of Environment and Society, Dr. Anna Miller’s Tenure Advisory Committee (member)
- ^2022 – current: Utah State University, Department of Environment and Society, Assistant Professor of Geospatial Science of Environment and Society Search Committee (chair)
- ^2022 – current: Utah State University, College of Natural Resources, Space Committee (college representative)
- ^2016 – current: Utah State University, College of Natural Resources, Safety Committee (department representative)
- ^2019 – current: Utah State University, Department of Environment and Society, Graduate Selection Committee (member)
- ^2021 – 2022: Utah State University, Department of Environment and Society, Assistant Professor of Recreation Resource Management and the Environment Search Committee (member)
- ^2021 – 2022: Utah State University, Department of Environment and Society, Dr. Mariya Shcheglovitova’s Tenure Advisory Committee (member)
- ^2020 – 2021: Utah State University, Department of Environment and Society, Dr. Zach Miller’s Tenure Advisory Committee (member)
- ^2020 – 2021: Utah State University, Department of Sociology, Social Work, & Anthropology, Dr. Tom Mueller’s Tenure Advisory Committee (member)
- ^2020: Utah State University, Ecology Center Speaker Series Faculty Advisor (department representative)
- ^2019 – 2020: Utah State University, Department of Environment and Society, Assistant Professor of Environmental Management Systems Search Committee (member)
- 2018 – 2019: Utah State University, Department of Environment and Society, Assistant Professor of Wildlife and Society Search Committee (member)
- 2018 – 2019: Utah State University, Department of Environment and Society, Assistant Professor of Recreation Resource Management Search Committee (member)
- 2017 – 2018: Utah State University, Department of Environment and Society, Andrew J. Senti Endowed Assistant Professorship in Ecosystem Services Search Committee (member)
- 2015: NC State University, College of Natural Resources, Research Committee (department representative)
- 2014: NC State University, Department of Parks, Recreation and Tourism Management, Assoc./Full Prof. in Geospatial Analytics and Human Dimensions of Natural Resources Search Committee (member)
- 2014: NC State University, College of Natural Resources, Director of Communications Search Committee (member)
- 2014: NC State University, Center for Geospatial Analytics, Web Presence Development Committee (member)
- 2013: NC State University, Department of Parks, Recreation and Tourism Management, Asst. Prof. in Sport and Sustainable Community Development Search Committee (member)
- 2009: NC State University, Department of Parks, Recreation and Tourism Management, Asst./Assoc. Prof. in Tourism Search Committee (graduate student representative)

**COLLEGE COMMITTEES**

- 2022– current: Utah State University Space Committee (S. J. and Jessie E. Quinney College of Natural Resources representative)
- 2013 – 2014: NC State CNR Strategic Planning Interdisciplinary Research Themes Committee (member)

**INTER-DEPARTMENTAL AND AFFILIATE FACULTY STATUS:**

- 2016 – current: Utah State University Climate Adaptation Science Program Faculty
- 2016 – current: Utah State University Ecology Center Faculty Associate
- 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:**

- International Association for Society and Natural Resources
- Society of Outdoor Recreation Professionals

**PROFESSIONAL BOARDS AND COMMITTEES:**

- 2022 – current: Utah Board of Tourism Development
- 2018 – 2020: Society of Outdoor Recreation Professionals Secretary
- 2017 – 2018: Society of Outdoor Recreation Professionals Board Member
- 2014 – 2015: Global Sustainable Soundscape Network Steering Committee member
- 2014 – 2016: Human Dimensions of Global Environmental Change AAG Specialty Group Co-Director