

BRIAN A. PETERSON

Park Management and Conservation
Applied Park Science Lab
Kansas State University
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EDUCATION

- 2017-2020 PhD: Parks, Recreation, and Tourism Management (May 2020)
Clemson University
Dissertation: *Advancing spatiotemporal research of visitor travel patterns within parks and protected areas*
Emphasis: Human dimensions of natural resources GIS analyses
- 2016-2017 PhD: Parks, Recreation, and Tourism
University of Utah
Emphasis: Human dimensions of natural resources GIS analyses
*Transferred to Clemson University to follow advisor
- 2014-2016 MS: Parks, Recreation, and Tourism
University of Utah
Thesis: *Mapping the relationships between trail conditions and experiential elements of long-distance hiking*
Emphasis: GIS analyses of social-ecological relationships
- 2000-2004 BA: Biology
University of San Diego
Minor: Chemistry
Emphasis: Pre-Med

PROFESSIONAL EXPERIENCE

- 2021-present Assistant professor
Kansas State University
- 2020-2021 Postdoctoral scholar
Kansas State University
- 2017-2020 Graduate Research Assistant in Parks, Recreation, and Tourism Management
Clemson University
- 2015-2017 Graduate Research Assistant in Parks, Recreation, and Tourism
University of Utah

Salt Lake City, UT

2011-2014 Project Supervisor of Conservation Projects
California Conservation Corps
 San Diego, CA

2011-2012 Math and Science Tutor
Specialized Learning
 San Diego, CA

2011 Math and Science Tutor
Broomfield High School
 Broomfield, CO

2009-2010 High School Science and Math Teacher
Balboa City School
 San Diego, CA

2009-2010 Conductor of Science Enrichment Programs
Mad Science
 San Diego, CA

2006-2009 Head of Science Department
Fusion Academy
 Solana Beach, CA

2004-2009 High School Science and Math Teacher
Fusion Academy
 Solana Beach, CA

RESEARCH EXPERIENCE

16. *Research to inform visitor use management and planning at National Capital Region Park* (Fefer, J.) National Park Service. Social science research to understand visitor use management in an urban region. **Peterson:** research design, data collection, and analysis.

15. *Assessing trail and river use at Mammoth Cave National Park* (Brownlee, M., Sharp, R.). National Park Service. Social science research to understand visitor use management. **Peterson:** data collection, 2020.

14. *Examining the social carrying capacity for mariculture development on the South Carolina coast* (Norman, W., Duffy, L., Hallo, J., Jodice, L.). South Carolina Sea Grant Consortium, and Clemson University. Research to investigate social constraints, barriers, and hurdles to oyster mariculture in South Carolina. **Peterson:** GIS analyst, data collection, 2019

13. *Examining commercially-guided, boat-based polar bear viewing* (Hallo, J., Dvorak, B.). Arctic National Wildlife Refuge. Social science research to support the implementation of a visitor use management strategy for commercially-guided, boat-based polar bear viewing in the Arctic National Wildlife Refuge. **Peterson:** Data analyst

12. *Beyond the hospital: Outcomes of visiting a cancer survivors park for cancer and non-cancer related users.* (Hallo, J.). Cancer Survivors Park Greenville, South Carolina. Research to inform managers about users, user perceptions, benefits, personal expectations, and outcomes of visiting the park. **Peterson:** Data analyst, 2019

11. *Adaptation, mitigation, and biophysical feedbacks in the changing Bonneville Salt Flats* (Bowen, B., Brownlee, M., Brazelton, B., & Harman, C.). The National Science Foundation, University of Utah, Clemson University, and the Bureau of Land Management. Research to evaluate the social and biophysical reciprocity in the changing Bonneville Salt Flats. **Peterson:** GIS analyst, 2018

10. *Evaluation of the relationship between current conditions, travel patterns, visitor thresholds, and ferry services at Cumberland Island National Seashore* (Brownlee, M. & Sharp, R.). Clemson University, Kansas State University, and the U.S. National Park Service. Research to inform visitor use management and concessionaire planning at Cumberland Island National Seashore. **Peterson:** Data collection, 2018

9. *Research to inform visitor use management at Theodore Roosevelt National Park* (Sharp, R., Brownlee, M., & Bricker, K.). Kansas State University, University of Utah, Clemson University, and the U.S. National Park Service. Research to inform visitor use management at Theodore Roosevelt National Park. **Peterson:** Data collection, 2017-2019

8. *Evaluation of human use and health outcomes on the Jordan River Trail before and after infrastructure improvement* (Brownlee, M.). University of Utah, Intermountain Healthcare, and the Jordan River Foundation. Research to evaluate frequency, duration, type, and distribution of use on key sections of the Jordan River Trail before and after infrastructure improvement. **Peterson:** Primary research assistant, 2016-2018

7. *Temporal and spatial distributions of visitor use and associated impacts on natural and social conditions at Buffalo National River* (Brownlee, M. & Sharp, R.). University of Utah, Kansas State, and the U.S. National Park Service. Research to gather baseline information to help support visitor use management planning at Buffalo National River. **Peterson:** Primary research assistant, 2016-2017

6. *Farmington City Trails* (Peterson, 2016). University of Utah. Research to determine official trails and map trails for the city of Farmington, UT, which culminated with 62 trail maps that included urban and wilderness trails to be included in a Farmington City trail guidebook. **Peterson:** Primary investigator, 2016

5. *Understanding visitor use at Cumberland Island National Seashore* (Brownlee, M. & Sharp, R.). University of Utah, Kansas State, and the U.S. National Park Service. A specific understanding of visitor use patterns in the primary visitation areas (e.g. the south end of the island) was needed to inform future planning efforts. Research to conduct the tracking of visitor use (e.g. GPS) in areas of high visitation to determine visitor travel patterns. **Peterson:** Primary research assistant, 2016

4. *Mapping the relationships between trail conditions and experiential elements of long-distance hiking* (Peterson, B., Brownlee, M., & Marion, J.). University of Utah and Virginia Tech University. Research to identify how trail conditions influence particular elements of the long-distance hiker's experience, and to index and spatially map these relationships. **Peterson:** Primary investigator, 2015-2016

3. *Research to Evaluate and Manage Visitor Impacts to the Appalachian Trail* (Marion, J.). Virginia Tech. This research provided measurements of the nature and severity of visitor impacts and the sustainability of the trail, overnight shelter and campsites, and day-use recreation sites at sampled segments of the A.T. Principal products include a quantitative characterization and documentation of baseline conditions, relational analyses and evaluations of attributes related to the sustainability of the trail's alignments and camping locations, and science-based guidance for improving the selection and professional management of the trail's alignments and campsites. **Peterson:** Data collection, 2015

2. *Evaluating and mapping student preferences for trail features and potential uses in the Red Butte Creek riparian corridor* (Brownlee, M.). University of Utah and Friends of Red Butte Creek. Research to identify, evaluate, and map University of Utah student preferences for a) general trail features, b) potential trail routes, c) indicators of quality, d) trail access, and e) potential uses of the Red Butte Creek riparian corridor located southwest of Bonneville Shoreline Trail and northeast of Foothill Drive. This purpose aligns with the research objective to spatially map social preference data in order to outline, compare, and propose the three most socially desirable trail routes in the Red Butte Creek riparian corridor. **Peterson:** GIS analyst and data collection, 2015-2016

1. *A Comprehensive Survey of OHV Riders in Utah: Benefits Based Analysis and Economic Impact* (Brownlee, M.). 2014. University of Utah and the Utah Department of Natural Resources (Division of State Parks and Recreation; OHV Program). Research to evaluate riders' desired benefits, perceived availability of amenities, and monetary expenditures. **Peterson:** Data collection, 2014

PEER-REVIEWED ARTICLES

Peterson, B. A., Sharp, R. L., Fefer, J. P., & Brunson, M. A. (2021). Identification of interpretive messaging locations using GIS. *Journal of Interpretation Research* (in review).

- Peterson, B. A., Fefer, J. P., Sharp, R. L., Brunson, M. A., & Skibins, J. C. (2021). To connect or not to connect: Visitor preferences for Wi-Fi and cellular network service at a national park. *Social Sciences & Humanities Open* (in review).
- Nettles, J., Brownlee, M. T., Sharp, R., Blacketer, M. P., & Peterson, B. A. (2021). Seasonal and destination-based variation in visitor travel routes in a designated wilderness. *International Journal of Wilderness* (in review).
- Wilson, T. K., Hallo, J. C., Dvorak, R. G., Peterson, B. A., Duffy, L. N., Friemund, W. A., & Fefer, J. P. (2021). Occurrences and experiential outcomes of last chance tourism in Arctic, Alaska. *Current Issues in Tourism* (in review).
- Peterson, B. A., Brownlee, M. T., Hallo, J. C., Beeco, J. A., White, D. L., Zajchowski, C. A., & Bowen, B. B. (2020). Grid Analysis of Visitor Travel Patterns in a Dispersed Outdoor Recreation Setting. *Journal of Park and Recreation Administration*.
- Peterson, B. A. (2020). Wilderness trails: Influences of perceptions. *International Journal of Wilderness*, 26(1).
- Peterson, B. A., Brownlee, M. T., Hallo, J. C., Beeco, J. A., White, D. L., Sharp, R. L., & Cribbs, T. W. (2020). Spatiotemporal variables to understand visitor travel patterns: A management-centric approach. *Journal of Outdoor Recreation and Tourism*, 31, 100316.
- Peterson, B. A., Perry, E. E., Brownlee, M. T., & Sharp, R. (2020). The transient nature of concentrated use at a national park: A spatiotemporal investigation into visitor behavior. *Journal of Outdoor Recreation and Tourism*, 31, 100310.
- Jacobs, L. A., Blacketer, M. P., Peterson, B. A., Levithan, E., Russell, Z. A., & Brunson, M. (2020). Responding to COVID-19 and future times of uncertainty: Challenges and opportunities associated with visitor use, management, and research in parks and protected areas. In *Parks Stewardship Forum* (Vol. 36, No. 3).
- Zajchowski, C. A., Brownlee, M. T., Blacketer, M. P., Peterson, B. A., Craft, K., & Bowen, B. B. (2020). Rapid Resource Change and Visitor-Use Management: Social–ecological Connections at the Bonneville Salt Flats. *Environmental Management*, 1-15.
- Miller, L. B., Hallo, J. C., Dvorak, R. G., Fefer, J. P., Peterson, B. A., & Brownlee, M. T. (2020). On the edge of the world: examining pro-environmental outcomes of last chance tourism in Kaktovik, Alaska. *Journal of Sustainable Tourism*, 1-20.
- Riungu, G. K., Peterson, B. A., Beeco, J. A., & Brown, G. (2018). Understanding visitors' spatial behavior: a review of spatial applications in parks. *Tourism Geographies*, 20(5), 833-857.

Peterson, B. A., Brownlee, M. T., & Marion, J. L. (2018). Mapping the relationships between trail conditions and experiential elements of long-distance hiking. *Landscape and Urban Planning, 180*, 60-75.

BOOKS AND CHAPTERS

D'Antonio, Peterson, etc. Levels and patterns of use. In Brownlee, M.T., Freimund, W., Hallo, J., Miller, Z.D., & Sharp, R. (editors). *Visitor Use Management in Parks and Protected Areas: Traditions, approaches, and possibilities*. Urbana, IL: Sagamore-Venture Publishing (in review). **Peterson:** co-author of book section.

Mikulecky, P., Rose Gilman, M., & Peterson, B. (2008). *AP biology for dummies*. Hoboken, NJ: Wiley Publishing, Inc. **Peterson:** co-author of all book sections.

Mikulecky, P., Brutlag, K., Rose Gilman, M., & Peterson, B. (2008). *Chemistry workbook for dummies*. Hoboken, NJ: Wiley Publishing, Inc. **Peterson:** co-author of all book sections.

CONFERENCE PRESENTATIONS

19. Peterson, B., & Brownlee, M., (April, 2019). *Understanding visitors' spatial behavior: a review of spatial applications in parks and protected areas*. Presented at the American Association of Geographers annual meeting.
18. King, R., Leroux, E., Matthew, B., Peterson, B., & Hallo, J., (March, 2019). *Beyond the hospital: outcomes of visiting a cancer survivors park for cancer and non-cancer related users*. Presented at the Southeastern Recreation Research Conference.
17. Perry, E., Peterson, B., Cribbs, T., Sharp, R., & Brownlee, M., (March, 2019). *Visitors' preferences for crowding conditions in wilderness and non-wilderness stretches of the Buffalo National River*. Presented at the Southeastern Recreation Research Conference.
16. Wilson, T., Hallo, J., Dvorak, R., Fefer, J., Peterson, B., & Miller, L., (March, 2019). *Occurrences and experiential outcomes of last chance tourism in arctic Alaska*. Presented at the Southeastern Recreation Research Conference.
15. Miller, L., Hallo, J., Dvorak, R., Fefer, J., Wilson, T., & Peterson, B., (March, 2019). *On the edge of the world: Examining pro-environmental outcomes of a last chance tourism experience in Kaktovik, Alaska*. Presented at the Southeastern Recreation Research Conference.

14. Peterson, B., & Brownlee, M., (March, 2019). *Tools for determining Outdoor Recreationists' spatial behavior in a variety of settings*. Presented at The Academy of Leisure Sciences' Annual Conference on Research and Teaching.
13. Blacketer, M., Zajchowski, C., Peterson, B., & Brownlee, M., (June 2018). *Recreation solubility: The dynamic relationship between salt crust moisture, spatial travel patterns, and visitor experience indicators at the Bonneville Salt Flats*. Presented at the International Symposium for Society & Resource Management, Snowbird, UT.
12. Peterson, B., Brownlee, M., & Sharp, R. L. (2017). *Using GPS Visitor Tracking to evaluate visitor travel patterns at Cumberland Island National Seashore*. Presented at National Outdoor Recreation Conference. Accepted for May, 2017.
11. Neild, M., Peterson, B., & Brownlee, M. (2017). *Using motion-activated photography to evaluate physical activity in parks*. Presented at National Outdoor Recreation Conference. Accepted for May, 2017.
10. Peterson, B., Brownlee, M., & Sharp, R.L. (2017). *The application of GPS visitor tracking to determine seasonal ranger presence at Cumberland Island National Seashore*. Presented at George Wright Society Conference. Accepted for April, 2017.
9. Peterson, B., Brownlee, M., & Marion, J. (2017). *Mapping the relationships between trail conditions and experiential elements of long-distance hiking*. Presented at George Wright Society Conference. Accepted for April, 2017.
8. Neild, M., Peterson, B., & Brownlee, M. (2017). *Using motion-activated photography to evaluate physical activity in parks*. Presented at George Wright Society Conference. Accepted for April, 2017.
7. Cribbs, T., Sharp, R.L., Brownlee, M., & Peterson, B. (2017). *Temporal and spatial distribution of visitor use and associated impacts at Buffalo National River*. Presented at George Wright Society Conference. Accepted for April 2017.
6. Jones, C., & Peterson, B. (2017). *University of Utah George Wright Society student chapter poster presentation*. Presented at University of Utah's Global Change and Sustainability Center Research Symposium. Accepted for February, 2017.
5. Peterson, B., Brownlee, M., & Sharp, R. (February, 2017). *Using GPS Visitor Tracking to evaluate visitor travel patterns at Cumberland Island National Seashore*. Presented at University of Utah's Global Change and Sustainability Center research symposium.

4. Peterson, B. (May, 2016) *Farmington City Trails*. Presented at University of Utah's GIS Day Poster Competition.
3. Peterson, B., Brownlee, M., & Marion, J. (May, 2016). *Spatially mapping the relationship between trail conditions and the long-distance hiking experience on the northern section of the Appalachian Trail*. Presented at the River Management Symposium and National Outdoor Recreation Conference. Boise, Idaho.
2. Gatti, E., Peterson, B., & Brownlee, M. (February, 2016). *Evaluating and mapping student preferences for trail features and potential uses in the Red Butte Creek riparian corridor*. Presented at University of Utah's Global Change and Sustainability Center Research Symposium.
1. Peterson, B., & Brownlee, M., (September, 2015). *The relationships between trail conditions and experiential elements of the long-distance hiking experience on the northern section of the Appalachian Trail*. Presented to scientific community evaluating and managing the sustainability of the Appalachian Trail. Virginia Tech University.

BOARD POSITIONS

Board member, *George Wright Society Board*. 2020-present.

Graduate Student Representative to the Board of Directors, *George Wright Society Board*. 2017-2020.