

**BRIAN A. PETERSON**  
Kansas State University  
Assistant Professor  
brianpeterson@ksu.edu

## EDUCATION

- 2016-2020      PhD: Parks, Recreation, and Tourism Management  
                         *Clemson University*  
                         Dissertation: *Advancing spatiotemporal research of visitor travel patterns within parks and protected areas*
- 2014-2016      MS: Parks, Recreation, and Tourism  
                         *University of Utah*  
                         Thesis: *Mapping the relationships between trail conditions and experiential elements of long-distance hiking*
- 2000-2004      BA: Biology  
                         *University of San Diego*  
                         Minor: Chemistry  
                         Emphasis: Pre-Med

## PEER-REVIEWED JOURNAL ARTICLES

\* = Represents graduate student advisee or post-doc advisee

- Doebelin, D., Sharp, R. L., Brownlee, M. T., Fefer, J., & **Peterson, B. A.** (2025). Do park experiences matter? The experienced condition and moderating variables as a potential predictor of visitor thresholds for outdoor recreation settings. *Journal of Park and Recreation Administration* (in review).
- Peterson, B. A.** & Perry, E. E. (2025). From classroom to canopy: Co-creating a forest recreation community engaged learning model to cultivate student leadership and connect research and education. *SCHOLE: A Journal of Leisure Studies and Recreation Education* (in review).
- Coffey, L. \*, **Peterson, B. A.**, Gurung, B. \*, Hutchinson, J. M. S., Olstad, T. A., Betchkal, D. H., Anderson, S. J., Joyce, D., & Beeco, J. A. (2025). Understanding overflight travel patterns above parks and protected areas: A state of knowledge review. *Journal of Park and Recreation Administration* (in review).
- Ferguson, L. A., **Peterson, B. A.**, Crump, M., Taff, B. D., Newman, P., Betchkal, D. H., Hutchinson, J. M. S., & Beeco, J. A. (2025) Exploring thresholds for low-flying propeller aircraft noise: Integrating aircraft tracking with social science insights. *Tourism Geographies* (in review).
- Ward, J. Sharp, R. L., Fefer, J., & **Peterson, B. A.** (2025). Is this the right trail? Pairing trail cameras and visitor surveys to examine social trail use in a frontcountry setting. *Journal of Park and Recreation Administration* (in review).
- Bremser, K. \*, **Peterson, B. A.**, Jackson, S. K., Sharp, R. L., Shively, R. D., Sánchez, J. J., & Gurung, B\* (2025). Exploratory mixed methodology to understand visitor

- use and perceptions at a National Grassland. *Journal of Park and Recreation Administration* (in review).
- Peterson B. A.**, Hutchinson J. M. S., Olstad T. A., Gurung, B.\*, Anderson, S. J., Betchkal, D. H., Joyce, D., & Beeco, J. A. (2025) Developing and testing an automated GIS toolbox for tracking low-level overflights above United States' National Park Service units. *International Journal Astronautics and Aeronautical Engineering*, 10:067
- Thomas, A. S., Budzyn, E. E., Perry, E. E., **Peterson, B. A.**, & Sánchez, J. J. (2025). Play and peril: Displacement drivers and types across recreation motivations in crowding and wildfire-prone southern California national forests. *Journal of Outdoor Recreation and Tourism*, 50, 100889.
- Gurung, B.\*, **Peterson, B. A.**, Fleming, S., Drury, S., Thomas, A., Sánchez, J. J., & Perry, E. E. (2025). Identification of High Fire Potential and High-Use Spatial Intersections at a National Forest to Understand Recreation Displacement Related to Wildfire Events. *Annals of the American Association of Geographers*, 1-11.
- Perry, E. E., & **Peterson, B. A.** (2025). Regional Relevance of a Cultural Park: Leverage Points Identified Through Spatial-Social Network Analysis. *Annals of the American Association of Geographers*, 1-13.
- Betchkal, D. H., Beeco, J. A., Anderson, S. J., **Peterson, B. A.**, & Joyce, D. (2023). Using aircraft tracking data to estimate the geographic scope of noise impacts from low-level overflights above parks and protected areas. *Journal of Environmental Management*, 348, 119201.
- Jenkins, J. S., Abatzoglou, J. T., & **Peterson, B. A.** (2023). Spring Snowpack Influences on the Volume and Timing of Spring and Peak-Season Overnight Visitation to Yosemite Wilderness. *Weather, Climate, and Society*, 15(2), 365-379.
- Cochran, A., Sharp, R. L., **Peterson, B. A.**, Fefer, J., & Martin, C. (2022). Utilization of GPS Data Loggers and GIS Analysis for the Evaluation of Interpretive Signage to Influence Visitor Travel Patterns and Enhance Wayfinding in Parks and Protected Areas. *Journal of Interpretation Research*, 10925872221139778.
- Peterson, B. A.**, Shively, R. D., Jackson, S. K., Rogowski, J., Beeco, J. A., & Joyce, D. (2022). Using ADS-B Data to Understand Overflight Altitude Characteristics at Hawai'i Volcanoes National Park. *The Professional Geographer*, 1-13.
- Peterson, B. A.**, Brownlee, M.T., Beeco, J. A., Hallo, J. C., White, D. L., & Joyce, D. (2022). Spatiotemporal analysis to identify air tour travel patterns at Hawai'i Volcanoes National Park. *Journal of Outdoor Recreation and Tourism*, 37, 100476.
- Peterson, B. A.**, Sharp, R. L., Fefer, J. P., & Brunson, M. A. (2021). The Utility of GIS for Identifying Areas of Recreation Conflict for Targeted Interpretive Messaging. *Journal of Interpretation Research*, 10925872211019731.
- Peterson, B. A.**, Fefer, J. P., Sharp, R. L., Brunson, M. M., & 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*, 4(1), 100179.
- Nettles, J. M., Brownlee, M. T., Sharp, R. L., Blacketer, M. P., & **Peterson, B. A.** (2021). Seasonal and Destination-Based Variation in Visitor Travel Routes in a Designated Wilderness. *International Journal of Wilderness*.

- 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.**, 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.

## **PUBLISHED PEER-REVIEWED AGENCY TECHNICAL REPORTS**

\* = Represents graduate student advisee or post-doc

- Peterson, B. A.**, Hutchinson, J. M. S., Gurung, B.\*, & Beeco, J. A. (2025). Exploring Spatial Patterns of Overflights at Saguaro National Park. Science Report NPS/SR—2025/331. National Park Service, Fort Collins, Colorado. <https://doi.org/10.36967/2314311>
- Betchkal, D. H., Olstad, T. A., **Peterson, B. A.**, Hutchinson, J. M. S., & Beeco, J. A. (2025). Exploring Spatial Patterns of Overflights at Mount Rushmore National Memorial, Updated 2023–2024. Science Report NPS/SR—2025/330. National Park Service, Fort Collins, Colorado. <https://doi.org/10.36967/2314177>
- Peterson, B. A.**, Hutchinson, J. M. S., Gurung, B.\*, & Beeco, J. A. (2025). Exploring spatial patterns of overflights at Acadia National Park. Science Report NPS/SR—2025/278. National Park Service, Fort Collins, Colorado. <https://doi.org/10.36967/2310324>

- Peterson, B. A.,** Hutchinson, J. M. S., Gurung, B.\*, Olstad, T.A., & Beeco, J. A. (2025). Exploring spatial patterns of overflights at Glacier National Park. Science Report NPS/SR—2025/259. National Park Service, Fort Collins, Colorado. <https://doi.org/10.36967/2309483>
- Gurung, B.\*, Hutchinson, J. M. S., **Peterson, B. A.,** Beeco, J. A., Anderson, S. J., & Joyce, D. (2025). Exploring spatial patterns of overflights at Haleakalā National Park. Science Report NPS/SR— 2025/224. National Park Service, Fort Collins, Colorado. <https://doi.org/10.36967/2308068>
- Peterson, B. A.,** Hutchinson, J. M. S., Gurung, B.\*, Betchkal, D. H., & Beeco, J. A. (2025). Exploring spatial patterns of overflights at Denali National Park and Preserve. Science Report NPS/SR— 2025/220. National Park Service, Fort Collins, Colorado. <https://doi.org/10.36967/2307459>
- Gurung, B.\*, Hutchinson, J. M. S., **Peterson, B. A.,** Beeco, J. A., Anderson, S. J., & Joyce, D. (2024). Exploring spatial patterns of overflights at Olympic National Park. Science Report NPS/SR— 2024/161. National Park Service, Fort Collins, Colorado. <https://doi.org/10.36967/2304991>
- Olstad, T. A., **Peterson, B. A.,** Hutchinson, J. M. S., Beeco, J. A., & Joyce, D. (2024). Exploring spatial patterns of overflights at Bryce Canyon National Park. Science Report NPS/SR—2024/149. National Park Service, Fort Collins, Colorado. <https://doi.org/10.36967/2304315>
- Peterson, B. A.,** Hutchinson, J. M. S., Gurung, B.\*, Beeco, J. A., & Joyce, D. (2024). Exploring spatial patterns of overflights at Badlands National Park. Science Report NPS/SR—2024/115. National Park Service, Fort Collins, Colorado. <https://doi.org/10.36967/2303602>
- Peterson, B. A.,** Hutchinson, J. M. S., Gurung, B.\*, Beeco, J. A., & Joyce, D. (2024). Exploring spatial patterns of overflights at Hawai'i Volcanoes National Park. Science Report NPS/SR—2024/114. National Park Service, Fort Collins, Colorado. <https://doi.org/10.36967/2303507>
- Peterson, B. A.,** Hutchinson, J. M. S., Gurung, B.\*, Beeco, J. A., Anderson, S. J., & Joyce, D. (2023). Exploring spatial patterns of overflights at Grand Canyon National Park. Natural Resource Report NPS/GRCA/NRR—2023/2544. National Park Service, Fort Collins, Colorado. <https://doi.org/10.36967/2299660>
- Peterson, B. A.,** Hutchinson, J. M. S., Gurung, B.\*, Beeco, J. A., Anderson, S. J., & Joyce, D. (2023). Exploring spatial patterns of overflights at Great Smoky Mountains National Park. Natural Resource Report NPS/GRSM/NRR— 2023/2518. National Park Service, Fort Collins, Colorado. <https://doi.org/10.36967/2299255>
- Gurung, B.\*, **Peterson, B. A.,** Beeco, J.A., Anderson, S. J., & Joyce, D. (2023). Exploring spatial patterns of overflights at Lake Mead National Recreation Area. Natural Resource Report NPS/LAKE/NRR—2023/2489. National Park Service, Fort Collins, Colorado. <https://doi.org/10.36967/2294919>
- Peterson B.A.,** Beeco J.A., Anderson S.J., & Joyce D. (2022). Exploring spatial patterns of overflights at Mount Rushmore National Memorial. Natural Resource Report. NPS/MORU/NRR—2022/2410. National Park Service. Fort Collins, Colorado. <https://doi.org/10.36967/nrr-2293663>

## AGENCY TECHNICAL REPORTS

- Peterson, B. A.** (2021). *Understanding overflights at Haleakalā National Park*. Technical report submitted to the U.S. National Park Service. In fulfillment of Cooperative Agreement No. P21AS00320.
- Peterson, B. A.** (2021). *Understanding overflights at Hawai'i Volcanoes National Park*. Technical report submitted to the U.S. National Park Service. In fulfillment of Cooperative Agreement No. P21AS00320.
- Peterson, B. A., & Brownlee, M. T.** (2018). *Evaluation of human use on the Jordan River Trail between Indiana and California Avenue*. Technical report submitted to the Jordan River Foundation and the National Park Service Rivers, Trails, and Conservation Assistance Program in fulfillment of Project No. 51005355.
- Peterson, B. A., Brownlee, M. T., Sharp, R. L., & Cribbs, T.** (2018). *Visitor Use and Associated Thresholds at Buffalo National River*. Technical report submitted to the U.S. National Park Service. In fulfillment of Cooperative Agreement No. P16AC00194.
- Peterson, B. A., Brownlee, M. T., & Sharp, R. L.** (2017). *Understanding Visitor Use at Cumberland Island National Seashore: GPS Visitor Tracking*. Technical report submitted to the U.S. National Park Service. In fulfillment of Cooperative Agreement No. P16AC00449.
- Gatti, E., Brownlee, M. T., & **Peterson, B. A.** (2016). *Evaluating and Mapping Student Preferences for Trail Features along Red Butte Creek*. Technical report submitted to the Friends of Red Butte Creek.

## 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 (2020). **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.

## PEER-REVIEWED BOOK REVIEWS PUBLICATION

- Peterson, B. A.** (2023). Authentic Being and Self-Compassion: A review of *An Autoethnography of Fitting In: On Spinsterhood, Fatness, and Backpacker Tourism*. *Journal of AutoEthnography* 4(4): 597-600.

## AWARDED RESEARCH GRANTS

- Jackson, S. K., **Peterson, B. A.**, Bergtold, J., Hill-Sullins, N., & Cable, T. (2025). *Developing the 2027-2037 Kansas Statewide Comprehensive Outdoor Recreation*

- Plan (SCORP): A Strategic Plan for Access, Sustainability, and Growth*. This project will distribute two surveys statewide in Kansas focused on understanding state park use and professional insight into current facility conditions, staffing, funding, programming, and priorities. Project budgeted at \$120,000 and awarded by Kansas Department of Wildlife and Parks; 2-year contract.
- Besenyi, G., Jackson, S. K., & **Peterson, B. A.** (2025). *Nature-based physical activity programming with military personnel and their families*. The aim of this project is to examine the feasibility and acceptability of nature-based physical activity programming with military personnel and their families. Budgeted at \$9,992 and awarded by Kansas State University; 1-year contract.
- Jackson, S. K., **Peterson, B. A.**, & Coffey, L. (2025). *The Cascading Impact of Leave No Trace: Using Intentional Personnel Training to Empower Responsible Recreation in Yellowstone National Park*. This project will examine the impact of Leave No Trace educational messaging with seasonal concessionaire employees at Yellowstone National Park. Project budgeted at \$5,000 and awarded by the National Park Service; 1-year contract.
- Domenghini, J., **Peterson, B. A.**, Jackson, S. K., Domenghini, C., & Canfield, J. (2025). *Tree Plantings for Canopy Health and Community Engagement*. This project will implement science-based community forestry efforts by focusing on tree planting, tree care, and tree education and outreach within federally recognized Climate and Economic Justice areas of Manhattan, Kansas. Project budgeted at \$100,00 and awarded by Kansas State University; 2-year contract.
- Ferguson, L., **Peterson, B. A.**, & Jackson, S. K. (2025). *The role of Leave No Trace Soundscape Guidelines in enhancing visitor experience and environmental responsibility*. This project will test the efficacy of Leave No Trace Soundscape Guidelines at Saguaro National Park. Project budgeted at \$19,993 and awarded by Leave No Trace Center for Outdoor Ethics; 1-year contract.
- Peterson, B. A.** (2024). *Backcountry aircraft tracking and noise impacts at Cimarron National Grassland*. Research to advance ADS-B logger design and to understand aircraft noise impacts at Cimarron National Grassland. Project internally budgeted at \$4,500 and awarded through K-State's University Small Research Grant (USRG) opportunity; 1-year contract.
- Peterson, B. A.**, Perry, E. E., Thomas, A., & Sánchez, J. (2022). *Understanding the drivers and effects of recreation displacement in Southern California national forests*. Research to provide United States Forest Service managers with knowledge about drivers of recreation displacement, how they can more sustainably manage recreation, and provide equitable access for recreation opportunities. Project internally budgeted at \$507,459 with \$332,329.00 awarded to KSU; 4-year contract.
- Peterson, B. A.** & Hutchinson, J. M. S. (2021). *Aircraft tracking over National Park Service units*. Research to advance the National Park Service and Federal Aviation Administration ability to effectively track commercial air tours over National Park Service units, to improve the data processing and reporting flow to park units, and to examine flight compliance. \$199,382.00 awarded; 4-year contract.

**Peterson, B. A., & Meerts-Brandsma, L. (2016).** *Recycling audit of the Annex building: a proposed grant submitted by the parks, recreation, and tourism sustainability committee.* The purpose of the project was to conduct a recycling audit of Annex C at the University of Utah. \$1,000 awarded; 1-year contract.

## **REJECTED GRANT PROPOSALS**

- Peterson, B. A., Jackson, S. K., Ferguson, L. A., & Cable, T. T. (2024).** *Promoting Leave No Trace Education at Trail Running Festivals.* Leave No Trace; \$19,925.
- Peterson, B. A., Jackson, S. K., Besenyi, G., Baptist, J., Ferraro, A., & DeGroat, A. (2024).** *Military Families Outdoor Program.* National Park Service; \$805,251.
- Besenyi, G., Lu, M. X., & Peterson, B. A. (2024).** *Advancing technology-based metrics and tools that identify and promote environmental justice in urban parks and greenspace to address health disparities.* National Institute of Health; \$2,480,369.
- Hill, N., Bergtold, J., Sullins, D., Joslin, A., Caldas, M., & Peterson, B. A. (2024).** *An integrated valuation to strategically strengthen CRP policy and delivery to support wildlife, agricultural, and community resilience in the Southern Great Plains.* United States Department of Agriculture; \$2,192,813.
- Peterson, B. A., Ahlers, A. A., & Boyer, C. R. (2024).** *Seasonal Natural and Cultural Resource Management Program Support on United States Air Force Installations.* Department of the Army; \$1,347,194.
- Peterson, B. A. & Wei, M. (2024).** *Development of a Deep Learning Model for Comprehensive and Real-Time Analysis of Acoustic Data.* Kansas State University; \$182,103.00
- Peterson, B. A., Wei, M., & Hutchinson, J. M. (2023).** *Application of a Deep Learning Approach to Automate Analysis of Acoustic Monitoring Data for Sound Source Identification at National Parks.* National Park Service; \$358,863
- Fernandez, M., Peterson, B. A., & Harris, B. (2021).** *Latinx Youth in a Bordertown: The Politics of Social Inclusion.* William T. Grant Foundation; \$135,000
- Peterson, B. A., Fefer, J., Randolph, L.G., & Sharp, R. (2021).** *Using Social Science to Inform Human Dimensions of Natural Resource Management and Policy at the Sacramento-San Joaquin Delta.* California Sea Grant; \$133,220
- Sharp, R. & Peterson, B. A. (2020).** *Research to Understand Visitor Travel Patterns at a Remote Backcountry Setting: The Tuweep Area of Grand Canyon National Park.* National Park Service; \$87,455
- Fefer, J., Sharp, R., Peterson, B.A. (2020).** *Understanding base-line ecological conditions, impacts of visitor use, and developing visitor use monitoring protocols for The Flint Hills Preserve.* The Nature Conservancy; \$105,336
- Peterson, B. A., Brosi, S., Zajchowski, C., Hill, E., Fefer, J., Sharp, R., & Wimpey, J. (2020).** *Monitoring Recreation Use and Ecological Impacts at Cliff Resources in Harpers Ferry National Historical Park.* National Park Service; \$98,201

## **CONFERENCE PRESENTATIONS**

**Bremser, K., Peterson, B. A., Ferguson, L. A., Jackson, S. K., Coffey, L., Hood, L. & Rucker, J. (2025).** *An experimental approach to increase visitors' awareness of*

- the natural soundscape and well-being at a Great Plains protected area.*  
Presented at Noise-Con.
- Bremser, K., Coffey, L., **Peterson, B. A.**, Jackson, S. K., Ferguson, L. A., Sánchez, J. J., Bergtold, J., & Rucker, J. (2025). *Impact of noise on avian diversity and human sound perception at Cimarron National Grassland during a recreational event.* Presented at Kansas Natural Resources Conference.
- Hutchinson, J. M. S., **Peterson, B. A.**, Gurung, B., Beeco, J. A., Anderson, S., Betchkal, D., & Joyce, D. (2023). *Developing a GIS toolbox for automating processing and analysis of low-level aircraft overflights at U.S. National Parks.* Presented at the American Association of Geographers Great Plains/Rocky Mountain annual meeting.
- Gurung, B., **Peterson, B. A.**, Beeco, J. A., Anderson, S., Hutchinson, J. M. S., Betchkal, D., Joyce, D., & Deeds, W. (2023). *Using ADS-B data to track low-level overflights at protected areas.* Presented at the International Association for Society and Natural Resources Conference.
- Betchkal, D., Beeco, J. A., Anderson, S., Deeds, W., Joyce, D., Gurung, B., **Peterson, B. A.**, & Hutchinson, J. M. S. (2023). *Using aircraft tracking data to estimate the noise impacts of low-level overflights above parks and protected areas.* Presented at the International Association for Society and Natural Resources Conference.
- Thomas, A., Gurung, B., **Peterson, B. A.**, Sánchez, J., & Perry, E. E. (2023). *Examining visitor non-compliance across a variety of national forest closures.* Presented at the International Association for Society and Natural Resources Conference.
- Gurung, B., Fleming, S., **Peterson, B. A.**, Drury, S., Thomas, A., Perry, E. E., & Sánchez, J. (2023). *Identifying spatiotemporal intersections of high fire potential and high visitation rates to understand visitor displacement characteristics.* Presented at the International Association for Society and Natural Resources Conference.
- Perry, E. & **Peterson, B. A.** (2023). *Regional relevance of a cultural site: Leverage points identified through spatial-social network analysis.* Presented at the National Environment and Recreation Research Symposium.
- Gurung, B., **Peterson, B. A.**, Beeco, J. A., Hutchinson, J. M. S., Anderson, S., Deeds, W., Joyce, D., & Betchkal, D. (2022). *Using ADS-B data to track low-level overflights at protected areas.* Presented at the National Outdoor Recreation Conference.
- Henry, C., Fefer, J., **Peterson, B. A.**, Scrugss, C., Zajchowski, C., & Rogowski, J. (2022). *Using mobile device data to document use in two urban-proximate national parks.* Presented at The National Environment and Recreation Research Association annual conference.
- Perry, E. & **Peterson, B. A.** (2021). *Identifying opportunities for small cultural parks to build regional relevance: A social and spatial network analysis approach to measures of leverage.* Presented at the American Association of Geographers annual meeting.
- Peterson, B. A.** & Brownlee, M., (2019). *Understanding visitors' spatial behavior: a review of spatial applications in parks and protected areas.* Presented at the American Association of Geographers annual meeting.

- King, R., Leroux, E., Matthew, B., **Peterson, B. A.**, & Hallo, J., (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.
- Perry, E., **Peterson, B. A.**, Cribbs, T., Sharp, R., & Brownlee, M., (2019). *Visitors' preferences for crowding conditions in wilderness and non-wilderness stretches of the Buffalo National River*. Presented at the Southeastern Recreation Research Conference.
- Wilson, T., Hallo, J., Dvorak, R., Fefer, J., **Peterson, B. A.**, & Miller, L., (2019). *Occurrences and experiential outcomes of last chance tourism in arctic Alaska*. Presented at the Southeastern Recreation Research Conference.
- Miller, L., Hallo, J., Dvorak, R., Fefer, J., Wilson, T., & **Peterson, B. A.**, (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.
- Peterson, B. A.**, & Brownlee, M., (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.
- Blacketer, M., Zajchowski, C., **Peterson, B. A.**, & Brownlee, M., (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.
- Peterson, B. A.**, 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.
- Neild, M., **Peterson, B. A.**, & Brownlee, M. (2017). *Using motion-activated photography to evaluate physical activity in parks*. Presented at National Outdoor Recreation Conference.
- Peterson, B. A.**, 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.
- Peterson, B. A.**, Brownlee, M., & Marion, J. (2017). *Mapping the relationships between trail conditions and experiential elements of long-distance hiking*. Presented at George Wright Society Conference.
- Neild, M., **Peterson, B. A.**, & Brownlee, M. (2017). *Using motion-activated photography to evaluate physical activity in parks*. Presented at George Wright Society Conference.
- Cribbs, T., Sharp, R.L., Brownlee, M., & **Peterson, B. A.** (2017). *Temporal and spatial distribution of visitor use and associated impacts at Buffalo National River*. Presented at George Wright Society Conference.
- Jones, C., & **Peterson, B. A.** (2017). *University of Utah George Wright Society student chapter poster presentation*. Presented at University of Utah's Global Change and Sustainability Center Research Symposium.
- Peterson, B. A.**, Brownlee, M., & Sharp, R. (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.
- Peterson, B. A.** (2016) *Farmington City Trails*. Presented at University of Utah's GIS Day Poster Competition.
- Peterson, B. A.,** Brownlee, M., & Marion, J. (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.
- Gatti, E., **Peterson, B. A.,** & Brownlee, M. (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.
- Peterson, B. A.,** & Brownlee, M., (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.

## DEVELOPED SOFTWARE

- Hutchinson, J. M. S. & **Peterson B. A.** (2023). ADS-B Overflight Analysis Toolbox (Version 1.0.1) [Computer software]. <https://doi.org/10.5281/zenodo.8011754>

## DELIVERED WORKSHOPS

- Peterson, B. A.** (2020). GIS Workshop at Kansas State University. This workshop provided students with an advanced skillset to conduct GIS analyses within the scope of visitor use management.

## EDITORIAL BOARDS

- Journal of Park and Recreation Administration: Associate Editor (2023 – present)

## PROFESSIONAL PRESENTATIONS OF RESEARCH FINDINGS TO MANAGERS OF PARKS AND PROTECTED AREAS

- Exploring Spatial Patterns of Overflights at Olympic National Park* (2023). Presented to the U.S. National Park Service.
- Exploring Spatial Patterns of Overflights at Badlands National Park* (2023). Presented to the U.S. National Park Service.
- Exploring Spatial Patterns of Overflights at Grand Canyon National Park* (2023). Presented to the U.S. National Park Service.
- Exploring Spatial Patterns of Overflights at Great Smoky Mountains National Park* (2023). Presented to the U.S. National Park Service.
- Exploring Spatial Patterns of Overflights at Lake Mead National Recreation Area* (2022). Presented to the U.S. National Park Service.

*Understanding overflights at Mount Rushmore National Memorial* (2021). Presented to the U.S. National Park Service.

*Spatiotemporal analysis to identify air tour travel patterns at Hawai'i Volcanoes National Park* (2020). Presented to the U.S. National Park Service.

*Examining the social carrying capacity for mariculture development on the South Carolina coast* (2019). Presented to South Carolina coastal stakeholders.

*Temporal and spatial distributions of visitor use and associated impacts on natural and social conditions at Buffalo National River* (2018). Presented to the U.S. National Park Service.

*Understanding visitor use at Cumberland Island National Seashore* (2016). Presented to the U.S. National Park Service.

## **COURSES TAUGHT**

*PMC 475 – Natural History for Park Professionals*. Kansas State University, Fall, 2024-2025.

*PMC 620 – Park Planning and Design*. Kansas State University. Spring, 2024-2025.

*HORT 880 – Overflight Acoustic Monitoring*. Kansas State University. Fall, 2023.

*PMC 580 – Park Operations and Maintenance Management*. Kansas State University. Fall, 2023.

*FOR 741A – Visitor Use Management Research Methods*. Kansas State University. Summer, 2023.

*PMC 580 - Park Operations and Maintenance Management*. Kansas State University. Fall, 2021.

*FOR 741A - Visitor Use Management GIS*. Kansas State University. Spring, 2021.

*PMC 810 - Quantitative research methods in park management and conservation*. Kansas State University. Fall, 2020. (co-taught with Dr. Jessica Fefer)

*Recreation Resource Planning in Forest Management*. Clemson University. Fall, 2019.

*Data Analysis in Parks, Recreation, and Tourism Management*. Clemson University, Spring, 2019.

*Parks, Recreation, and Tourism Management Recreation Research II (Honors)*. Clemson University, Spring, 2019.

## **GRADUATE STUDENT COMMITTEE CHAIR**

Giri, Pravin. (2025- ). PhD student. Kansas State University.

Bremser, Katharina. (2024- ). PhD student. Kansas State University.

Gurung, Bijan. (2021-2025). Advancing GIS Analysis and Econometric Modeling for Monitoring Natural Resources and Visitors' Preferences in Parks and Forests. *Doctor of Philosophy: Park Management and Conservation*. Kansas State University.

Bremser, Katharina. (2023-2024). An exploratory study to understand visitor typologies and desired resources at Cimarron National Grassland. *M.S.: Park Management and Conservation*. Kansas State University.

### **SERVICE ON PHD COMMITTEES**

Hicks, Russell. Kansas State University; Park Management and Conservation (anticipated graduation 5/2026)

### **POSTDOCTORAL SCHOLARS**

Coffey, Leah (2024- ). Two-year postdoc commitment.

### **SERVICE ON MASTER'S COMMITTEES**

Peat, Evelyn. Kansas State University; Park Management and Conservation (anticipated graduation 12/2025).

Williamson, Benjamin. Kansas State University; Landscape Architecture. *Three municipal park system case studies: Relative comparison of public participation/volunteerism impact on park system vision, budgets, and operations*. 2024.

Ward, Joseph. Kansas State University; Park Management and Conservation. *Investigating visitor behavior in relation to Leave No Trace practices*. 2023.

Cochran, Amy. Kansas State University; Park Management and Conservation. *Evaluation of visitor travel patterns after signage manipulation at the Tallgrass Prairie Preserve*. 2021.

Wilson, Tana. Clemson University; Parks, Recreation, and Tourism Management. *Occurrences and experiential outcomes of last chance tourism in Arctic Alaska*. 2019.

Miller, Lauren. Clemson University; Parks, Recreation, and Tourism Management. *On the edge of the world: examining pro-environmental outcomes of last chance tourism in Kaktovik, Alaska*. 2019.

## STUDENT SCHOLARSHIPS, AWARDS, AND FELLOWSHIPS

Peterson, Brian (2025). United States Forest Service Chief's Honors Award for research conducted at four national forests in Southern California.

Bremser, Katharina (2024-2025). Timothy R. Donoghue Graduate Scholarship

Gurung, Bijan (2024). Natural Resources and Environmental Sciences Fellowship  
Rucker, Justus (2024). McNair Scholars Program

Rucker, Justus (2024). Undergraduate Research Amplification Project

## BOARD POSITIONS

Board Member, *Mount Mitchell Heritage Prairie Park*. 2021-present.

Mount Mitchell is a National Park Service Network to Freedom Site, a Native American sacred site, and a Star Attraction of the Freedom's Frontier National Heritage Area.

- **Highlight:** Led the non-profit towards pursuing the International Dark-Sky Association Designation.

Board Member, *George Wright Society Board*. 2020-2022.

The George Wright Society promotes protected area stewardship by bringing practitioners together to share their expertise.

- **Highlight:** Developed the Socioenvironmental Justice Award.

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

- **Highlight:** Hosted three Student Summit events.