

MATTHEW T.J. BROWNLEE

Assistant Professor of Natural Resources Recreation Planning and Management
Parks, Recreation, and Tourism at the University of Utah
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Education

Clemson University

Ph.D. in Parks, Recreation and Tourism Management, May 2012
Emphasis: Parks and Conservation Area Management
Cognate: Methods and measurement in applied social research
Dissertation: *Nature-based recreationists' perceptions of climate change and attitudes towards climate change mitigation in natural environments*

Aurora University

M.S. in Recreation Administration; Therapeutic Recreation, June 2004
Emphasis: Administration of Outdoor and Therapeutic Recreation
Masters' Project: *Co-creating emotionally safe environments during wilderness and adventure programming experiences*

University of Kentucky- LCC

Additional studies in Psychology and Statistics, Fall 2003

Northland College

B.S. in Outdoor Education, August 1999
Senior Project: *Wilderness and adventure programming for families involved in clinical counseling*

National Outdoor Leadership School

Semester experience: Mountaineering, Desert Travel, Sailing, and Cultural Studies
Kenya, East Africa, Winter – Spring 1997

Research Focus

Dr. Brownlee's inter-disciplinary research links outdoor recreation, human health, and resource management. His applied research provides information to help park and protected area professionals manage visitor experiences while evaluating the reciprocal linkages in complex social-ecological systems (SES). Within parks and the SES context, Dr. Brownlee examines numerous phenomena, including a) people's interactions and attachments to climate-sensitive and climate-impacted environments, b) health-oriented outcomes of park experiences, and c) SES dynamics. He often uses methods that transcend traditional concentration areas and degrees, including advanced quantitative modeling, experience sampling, social network analysis, fuzzy logic cognitive mapping, GPS tracking, GIS applications, and participant employed photography. Dr. Brownlee maintains particular expertise in Structural Equation Modeling and advanced quantitative methods used in applied research. His research generally incorporates student learning and addresses a pertinent management need in addition to unanswered academic questions.

Journal Articles (Peer-Reviewed)

*indicates publication with current or past graduate student

- *Gatti, E., Brownlee, M., & Bricker, K. (in press). Human dimensions of winter use in Yellowstone National Park: A research gap analysis. *Park Science*.
- Brownlee, M., Rose, J., & Bricker, K. (2016). Illegal marijuana production on U.S. federal lands: Managers' perceptions of a common pool resource issue. *Society and Natural Resources*, 29(2), 185-202.
- *Zajchowski, C., Brownlee, M., & Furman, N. (2016). Rx: Heuristic processing in outdoor adventure education. *Journal of Outdoor Recreation, Education, and Leadership*, 8(2), 118-134.
- Dustin, D., Bricker, K., Brownlee, M., & Schwab, K. (2016). Lessons from the Legends: A content analysis of the American Academy for Park and Recreation Administration's Legends videos. *Journal of Park and Recreation Administration*, 34(2), 106-115.
- *Sgalitzer, H., Brownlee, M., Zajchowski, C., Bricker, K., & Powell, R. (2016). Modeling travelers' philanthropy: Understanding tourists' motivations to donate at Sweetwater Chimpanzee Sanctuary. *Journal of Ecotourism*, 15(1), 1-20.
- *Brownlee, M. & Verbos, R. (2015). Measuring outdoor recreationists' beliefs in climate change: Testing the Occurrence and Anthropogenic Causation scales. *Journal of Outdoor Recreation and Tourism*, 11, 1-12.
- *Altschuler, B., & Brownlee, M. (2015). Local stakeholders' perceptions of climate change on the Island of Providencia, Colombia. *Local Environment*, 21(5), 615-635.
- *Verbos, R., Brownlee, M., & Skibins, J. (2015). Understanding visitors' commitment to grizzly bear conservation at Denali National Park and Preserve. *Alaska Park Science*, 14(1), 60-69.
- Brownlee, M., Hallo, J., Jodice, L., Moore, D., Powell, R., & Wright (2015). Place attachment and marine recreationists' attitudes towards offshore wind energy development. *Journal of Leisure Research*, 47(2), 263-284.
- Beeco, J.A., Hallo, J., & Brownlee, M. (2014). GPS visitor tracking and recreation suitability mapping: Tools for understanding and management visitor use. *Landscape and Urban Planning*, 127, 136-145.
- Brownlee, M., Hallo, J., Moore, D., Powell, R., & Wright, B. (2014). Lake recreationists' attitudes towards water conservation: The influence of place attachment, awareness of drought impacts, and beliefs in climate change. *Society and Natural Resources*, 27 (9), 964-982.
- Brownlee, M., Hallo, J., Wright, B., Moore, D., & Powell, R. (2013). Visiting a climate influenced National Park: The stability of climate change perceptions. *Environmental Management*, 52(5), 1132-1148.

- Brownlee, M., & Hallo, J. (2013). Motivations to visit designated wilderness at Cumberland Island National Seashore. *The International Journal of Wilderness*, 19(1), 34-40.
- Brownlee, M., Hallo, J., & Krohn, B. (2013). Botanical garden visitors' perceptions of local climate impacts: Awareness, concern, and behavioral responses. *Managing Leisure*, 18(2), 97-117.
- Brownlee, M., Powell, B., & Hallo, J. (2013). Understanding foundational processes that influence beliefs in climate change: Opportunities for environmental education research. *Environmental Education Research*, 19(1), 1-22.
- McKay, A., Brownlee, M., & Hallo, J. (2012). Changes in visitors' focus on the environment at Congaree National Park. *Journal of Leisure Research*, 44(2), 179-200.
- Powell, R., Brownlee, M., Kellert, S., & Ham, S. (2012). From awe to satisfaction: Immediate affective responses to the Antarctic tourism experience. *Polar Record*, 48(2), 145-156.
- Brownlee, M., & Hallo, J. (2012). Climate change segmentation groups at Kenai Fjords National Park: Insight into visitors' perceptions. *Alaska Park Science*, 10(2), 18-21.
- Brownlee, M., & Leong, K. (2011). Climate change, management decisions, and the visitor experience: The role of social science research. *Park Science*, 28(2), 21-25.
- * Verbos, R., Altschuler, B., & Brownlee, M. (in review). Weather studies in outdoor recreation and nature-based tourism: A research synthesis and gap analysis. *Leisure Sciences*.
- *Zajchowski, C., Verbos, R., Brownlee, M., & Skibins, J. (in review). "I'd like to be just a bit closer": Wildlife viewing proximity preferences at Denali National Park & Preserve. *Human Dimensions of Wildlife*.
- *Verbos, R., & Brownlee, M. (in review). A weather-dependency framework for outdoor recreation activities. *Journal of Outdoor Recreation and Tourism*.

Journal Articles (Editor-Reviewed)

*indicates publication with current or past graduate student

- *Zajchowski, C., & Brownlee, M. (2016). Decreasing degrees of freedom: Ethical recreation in a changing climate. *River Management Society Journal*, 28 (4), 10-11.
- Brownlee, M., Bricker, K., & Dustin, D. (2016). Introduction to the Healthy Parks, Healthy People Special Issue – Part II. *Journal of Park and Recreation Administration*, 34(2), 1-4.
- Bricker, K., Brownlee, M., & Dustin, D. (2016). Introduction to the Healthy Parks, Healthy People Special Issue – Part I. *Journal of Park and Recreation Administration*, 34(1), 1-3.
- Bricker, K., Brownlee, M., & Rose, J. (2014). Cultivating a potential ecological, social, and economic disaster - Marijuana on public lands. *Parks and Recreation*, January edition.

Brownlee, M., & Yerkes, R. (2003). Co-Creating emotionally safe environments at camp: Training staff to facilitate adventure activities. *Camping*, 76(6), 38-42.

Books

Dustin, D., Bricker, K., Negley, S., Brownlee, M., Schwab, K., & Lundberg, N. (Eds.) (2015). *This Land is Your Land: Toward a Better Understanding Nature's Resiliency-Building and Restorative Power for Armed Forces Personnel, Veterans, and their Families*. Urbana, IL: Sagamore Publishing.

Book Chapters (Peer-Reviewed)

Brownlee, M. (2015). Parks and protected areas: A platform for adventure activities. Pages 53-68: Chapter 3. In *Adventure Programming and Travel for the 21st Century*, Bricker, K. & R. Black (Eds.). State College, PA: Venture Publishing.

Book Chapters (Editor-Reviewed)

Rose, J., Brownlee, M., & Bricker, K. (in press). Illegal marijuana production on U.S. federal lands: Managers' perceptions of a common pool resource issue. In Miller, C. *MMM*.

Dustin, D., Bricker, K., Negley, S., Brownlee, M., Schwab, K., & Lundberg, N. (2015). Chapter 21: Where do we go from here? In *This Land is Your Land: Toward a Better Understanding Nature's Resiliency-Building and Restorative Power for Armed Forces Personnel, Veterans, and their Families*. Dustin, D., K. Bricker, S. Negley, M. Brownlee, K. Schwab, & N. Lundberg. Urbana, IL: Sagamore Publishing.

Papers and Abstracts (Peer-Reviewed)

*indicates paper presented with current or past graduate student

Brownlee, M., & Sharp, R. (in review). Session Organizers and Moderators: *Visitor use management: Innovative approaches that inform management solutions*. Submitted to the George Wright Society Conference, Norfolk, VA.

Sharp, R., & Brownlee, M. (in review). Session Organizers and Moderators: *Rethinking visitor capacity in parks and protected areas*. Submitted to the George Wright Society Conference, Norfolk, VA.

*Neild, M., & Brownlee, M. (in review). *Using motion-activated photography to evaluate physical activity in parks*. Submitted to the George Wright Society Conference, Norfolk, VA.

*Zajchowski, C., Rose, J., & Brownlee, M. (in review). *Experience sampling strategies for social science research in parks and protected areas*. Submitted to the George Wright Society Conference, Norfolk, VA.

- *Zajchowski, & Brownlee, M. (in review). *Air quality and manager decision-making in parks and protected areas*. Submitted to the George Wright Society Conference, Norfolk, VA.
- *Kraja, B., & Brownlee, M. (in review). *Recreation Suitability Mapping to address recreational conflict within the wildland-urban interface*. Submitted to the George Wright Society Conference, Norfolk, VA.
- van Riper, C. Stamberger, L., Lum, C., Keller, R., Brownlee, M. (in review). *Integrating multiple values and environmental behavior reported by visitors to Denali National Park and Preserve*. Submitted to the George Wright Society Conference, Norfolk, VA.
- Lum, C., van Riper, C., Stamberger, L., Brownlee, M., Rose, J., & Keller, R. (in review). *Mapping the spatial dynamics of values among visitors to Denali National Park and Preserve*. Submitted to the George Wright Society Conference, Norfolk, VA.
- *Stamberger, L., van Riper, C., Lum, C., Keller, R., Brownlee, M., Rose, J., & Peterson, B. (in review). *Using GPS Visitor Tracking to understand backcountry use in Denali National Park*. Submitted to the George Wright Society Conference, Norfolk, VA.
- *Brownlee, M., & Moser, M. (June 2016). *Visitors' normative standards for glacial recession at Kenai Fjords National Park*. Presented at International Symposium on Society and Resource Management, Houghton, MI.
- *Zajchowski, C., & Brownlee, M. (June 2016). *Skiers and smog: Backcountry skiers' normative standards for air quality in the wildland-urban interface*. Presented at International Symposium on Society and Resource Management, Houghton, MI.
- *Blacketer, M., Zajchowski, C., Brownlee, M., & Rose, J. (June 2016). *Cognitive dissonance and outdoor recreation during air pollution events*. Presented at International Symposium on Society and Resource Management, Houghton, MI.
- *Verbos, R., Brownlee, M., & Smith, J. (June 2016). *Organized session: Weather and outdoor recreation*. Session Co-Organizer and Moderator: International Symposium on Society and Resource Management, Houghton, MI.
- Smith, J., Brownlee, M., & Seekamp, E. (June 2016). *Organized session I: Climate change and outdoor recreation*. Session Co-Organizer and Moderator: International Symposium on Society and Resource Management, Houghton, MI.
- Smith, J., Brownlee, M., & Seekamp, E. (June 2016). *Organized session II: Climate change and outdoor recreation*. Session Co-Organizer and Moderator: International Symposium on Society and Resource Management, Houghton, MI.
- *Zajchowski, C., & Brownlee, M. (May 2016). *Normative standards for alpine recreation during air pollution episodes*. Presented at The National Outdoor Recreation Conference, Boise, ID.

- *Peterson, B., & Brownlee, M. (May 2016). *Mapping the relationships between trail conditions and the long-distance biking experience on the northern section of the Appalachian Trail*. Presented at The National Outdoor Recreation Conference, Boise, ID.
- *Marshall, S., & Brownlee, M. (May 2016). *The influence of place attachment and motivations for use on campers' evaluations of site conditions*. Presented at the National Outdoor Recreation Conference, Boise, ID.
- Brownlee, M., & Bricker, K. (June 2015). *Winter use at Yellowstone National Park: A research gap analysis*. Presented at the International Symposium on Society and Resource Management, Charleston, SC.
- *Verbos, R., Altschuler, B., & Brownlee, M. (June 2105). *Weather dependency and outdoor recreation: A research gap analysis*. Presented at the International Symposium on Society and Resource Management, Charleston, SC.
- *Zajchowski, C., Kraja, B., Brownlee, M., Verbos, R., & Skibins, J. (June 2015). *Proximal wildlife viewing at Denali: An analysis of visitor preference and management practices*. Presented at the International Symposium on Society and Resource Management, Charleston, SC.
- *Zajchowski, C., Kraja, B., Brownlee, M., Bricker, K., & Altschuler, B. (June 2105). *Mutually informing typologies: An analysis of backcountry skiers' perceptions of development*. Presented at the International Symposium on Society and Resource Management, Charleston, SC.
- *White, K., & Brownlee, M. (June 2015). *Informing sign placement using GPS visitor tracking in high-use recreation areas*. Presented at the International Symposium on Society and Resource Management, Charleston, SC.
- Brownlee, M. & Bricker, K. (April 2015). *Seasonality and visitors' sense of place at Yellowstone National Park*. Presented at the National Outdoor Recreation Conference. Annapolis, Maryland.
- Brownlee, M. & Bricker, K. (April 2015). *Operationalizing park health resources: An interactive workshop*. Workshop co-facilitator at the National Outdoor Recreation Conference. Annapolis, Maryland.
- Bricker, K., Brownlee, M., Kerstetter, D., Burns, R., & Nayaupane, G. (April 2015). *Finding common ground: Synergies in ecotourism and outdoor recreation research*. Roundtable discussion at the National Outdoor Recreation Conference. Annapolis, Maryland.
- *Zajchowski, C., & Brownlee, M. (April 2015). *Heuristics in the wild: The role of ecological rationality in heuristic efficacy within outdoor pursuits*. Presented at the National Outdoor Recreation Conference. Annapolis, Maryland.
- *Zajchowski, C., Brownlee, M., Bricker, K., & Altschuler, B. (April 2015). *The relationship between backcountry skiers' environmental values and perceptions about development*. Presented at the National Outdoor Recreation Conference. Annapolis, Maryland.

- *Verbos, R., & Brownlee, M. (April 2015). *Detecting information or infrastructure deficits for Off-Highway Vehicle (OHV) recreationists: Operationalizing the natural resource matrix*. Presented at the National Outdoor Recreation Conference. Annapolis, Maryland.
- *Verbos, R., & Brownlee, M. (April 2015). *How does weather influence outdoor recreationists? An exploration of weather dependency*. Presented at the National Outdoor Recreation Conference. Annapolis, Maryland.
- Brownlee, M., & Bricker, K. (March 2015). *A research gap analysis of the human dimensions of winter use at Yellowstone National Park*. Presented at Science for Parks, Parks for Science Summit. Berkley, California.
- Bricker, K., & Brownlee, M. (March 2015). *Winter in Yellowstone National Park: An exploration of visitor activity and place meaning*. Presented at Science for Parks, Parks for Science Summit. Berkley, California.
- Brownlee, M., Dustin, D., Fish, T., Hallo, J., Park, L. Reigner, N., & Watson, A. (March 2015). *Debating the ethical, political, economic, methodological, and practical issues when using technology for visitor research within parks and protected areas*. Panel designer and moderator: The George Wright Society Conference. Oakland, California.
- Brownlee, M. (March 2015). Interdisciplinary healthy parks, healthy people metrics and research: An overview of the advantages and challenges. Panel presentation in *Nature's Transformational Power: Health Metrics and Measures Linked to Healthy Parks, Healthy People* session, Taff, D., D. Allen. Presented at The George Wright Society Conference. Oakland, California.
- Hallo, J., & Brownlee, M. (March 2015). *Modeling relationships among transportation, visitor use, and management at Pinnacles National Park*. Presented at The George Wright Society Conference. Oakland, California.
- *Moser, M., Brownlee, M., Bricker, K., & Gatti, E. (March 2015). *Human dimensions of winter use in Yellowstone National Park: A gap analysis*. Presented at The George Wright Society Conference. Oakland, California.
- *Moser, M., Verbos, R., Brownlee, M., & Skibins, J. (March 2015). *Visitors' commitment to grizzly bear conservation at Denali National Park*. Presented at The George Wright Society Conference. Oakland, California.
- *Skibins, J., Brownlee, M., & Verbos, R. (March 2015). *Are grizzly bears more than just scenery? Strategies to improve visitor-based conservation actions*. Presented at The George Wright Society Conference. Oakland, California.
- *White, K., & Brownlee, M. (March 2015). *Determining the temporal distribution of rock climbers using GPS Visitor Tracking*. Presented at The George Wright Society Conference. Oakland, California.
- *White, K., & Brownlee, M. (March 2015). *Using GPS Visitor Tracking to inform sign placement in high use outdoor recreation areas*. Presented at The George Wright Society Conference. Oakland, California.

- *Verbos, R., & Brownlee, M. (October 2014). *Barriers and bottlenecks: Do OHV recreationists' perceptions of supply meet actual supply? A management approach to understanding OHV recreationists' supply and demand.* Presented at The International Union of Forest Research Organizations Conference. Salt Lake City, Utah.
- Brownlee, M., & Bricker, K. (June 2014). *Seasonality and visitors' sense of place at Yellowstone National Park.* Presented at the International Symposium for Society and Resource Management, Hannover, Germany.
- *Altschuler, B., & Brownlee, M. (June 2014). *Expanding traditional crowding research methods and theory to address non-western collectivist cultures.* Presented at the International Symposium for Society and Resource Management, Hannover, Germany.
- *Verbos, R., Brownlee, M., & Skibins, J. (June 2014). *Commitment to grizzly bear conservation: Segmenting and understanding visitors at Denali National Park.* Presented at the International Symposium for Society and Resource Management, Hannover, Germany.
- *Verbos, R., & Brownlee, M. (June 2014). *The relationship between weather stimuli and recreational motivations.* Presented at the International Symposium for Society and Resource Management, Hannover, Germany.
- *White, K., & Brownlee, M. (June 2014). *A time use analysis of rock climbers in Indian Creek, Utah using GPS visitor tracking.* Presented at the International Symposium for Society and Resource Management, Hannover, Germany.
- Rose, J., Brownlee, M., & Bricker, K. (April 2014). *Illegal marijuana cultivation on public lands: Ecological, economic, social, and transnational conflicts.* Presented at the Annual Meeting of the Association of American Geographers, Tampa, Florida.
- *Sgalitzer, H., & Brownlee, M. (April 2014). *Travelers' philanthropy: Understanding tourists' motivations to financially donate at Sweetwater Chimpanzee Sanctuary.* Presented at the Ecotourism and Sustainable Tourism Conference, Bonito, Brazil.
- Brownlee, M., Rose, J., & Bricker, K. (September 2013). *Illegal marijuana production on public lands: Rapid impacts to social-ecological systems.* Presented at the 12th Biennial Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ.
- *Brownlee, M., Gochenaur, R., & Gatti, E. (September 2013). *Climate change perceptions: How to measure visitors' beliefs in occurrence and anthropogenic causation.* Presented at the 12th Biennial Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ.
- Brownlee, M., & Hallo, J. (June 2013). *Marine recreationists' place attachment and their opposition and support for off shore wind energy.* Presented at the International Symposium for Society and Resource Management, Estes Park, CO.

- *Altschuler, B., Brownlee, M., & Reed, M. (June 2013). *Understanding local stakeholder perceptions of climate change and their use in addressing social and environmental impacts on the island of Providencia, Colombia*. Presented at the International Symposium for Society and Resource Management, Estes Park, CO.
- *Gochenaur, R., & Brownlee, M. (June 2013). *Measuring nature-based recreationists' beliefs in climate change: Occurrence and anthropogenic causation*. Presented at the International Symposium for Society and Resource Management, Estes Park, CO.
- *Roa, C., & Brownlee, M. (June 2013). *A Proposed Framework for Evaluating Biological and Social Outcomes of Citizen Science Programs*. Presented at the International Symposium for Society and Resource Management, Estes Park, CO.
- Rose, J., Brownlee, M., & Bricker, K. (June 2013). *Cannabis production and cultivation on public lands: An analysis of land managers' perspectives*. Presented at the International Symposium for Society and Resource Management, Estes Park, CO.
- *Sgalitzer, H., & Brownlee, M. (June 2013). *Funding sustainability: Understanding travelers' motivations to donate to conservation*. Presented at the International Symposium for Society and Resource Management, Estes Park, CO.
- Brownlee, M. & Hallo, J. (March 2013). *Using time-lapsed photography for monitoring backcountry crowding conditions at Pinnacles National Park*. Presented at the George Wright Society Conference, Denver, CO.
- *Gochenaur, R., & Brownlee, M. (March 2013). *What does "global climate change" mean to you? Visitors' responses across three diverse protected areas*. Presented at the George Wright Society Conference, Denver, CO.
- Hughes, M., Brownlee, M., & Hallo, J. (March 2013). *Perceptions of crowding at Cumberland Island National Seashore*. Presented at the George Wright Society Conference, Denver, CO.
- Wilson, D., Hallo, J., & Brownlee, M. (March 2013). *Application of the VERP Planning Framework at Pinnacles National Monument: Development of Indicators and Standards*. Presented at the George Wright Society Conference, Denver, CO.
- *Reed, M., Craver, A., Bricker, K., & Brownlee, M. (March 2013). *Understanding subsistence use and identity formation in communities surrounding Denali National Park and Preserve*. Presented at the George Wright Society Conference, Denver, CO.
- Sharp, R., Larson, L., Brownlee, M., & Conway, A. (June 2012). *Visitors' attitudes towards invasive species management on public lands: A pilot study at Great Sand Dunes National Park*. Presented at the North American Congress for Conservation Biology. Oakland, CA.
- Sharp, R., Brownlee, M., & Larson, L. (April 2012). *Visitors' climate change beliefs and perceptions of climate-sensitive resources at Great Sand Dunes National Park*. Presented at The Northeastern Recreation Research Conference. Sagamore, NY.

- Hughes, M., Brownlee, M., & Hallo, J. (February 2012). *Normative standards for crowding between wilderness users and day visitors at Cumberland Island National Seashore*. Presented at The Southeastern Recreation Research Conference. Auburn, AL.
- Brownlee, M., Jodice, L., & Hallo, J. (February 2012). *Coastal recreationists' attitudes towards offshore wind energy development in South Carolina*. Presented at The National Oceanic and Atmospheric Administration Social Coast Forum. Charleston, SC.
- Hughes, M., Brownlee, M., & Hallo, J. (February 2012). *Differences in normative standards for crowding between wilderness users and day visitors at a National Seashore*. Presented at The National Oceanic and Atmospheric Administration Social Coast Forum. Charleston, SC.
- Brownlee, M., Hallo, J., Leong, K., & Powell, B. (March 2011). *Climate change, management decisions, and the visitor experience: The role of social science research*. Presented at The George Wright Society Conference. New Orleans, LA.
- Baldwin, B., Brownlee, M., & Skibins, J. (March 2011). *Understanding motivations for illegal transport and release of wild boar adjacent to the Great Smokey Mountains National Park*. Presented at The George Wright Society Conference. New Orleans, LA.
- Hallo, J., Manning, R., Brownlee, M., & Smith, B. (March 2011). *Visitor attitudes towards alternative transportation at Cumberland Island National Seashore*. Presented at The George Wright Society Conference. New Orleans, LA.
- Brownlee, M., Hallo, J., Smith, B., & Manning, R. (February 2011). *Understanding the dimensions of wilderness use preferences and the implications for wilderness management*. Presented at The Southeastern Recreation Resource Conference. Boone, NC.
- Smith, B., Brownlee, M., & Hallo, J. (February 2011). *Who, what, and how: Shedding light on campers' perceptions and preferences of campground lighting*. Presented at The Southeastern Recreation Resource Conference. Boone, NC.
- Brownlee, M., Hallo, J., & Smith, B. (June 2010). *Awareness of site-specific biophysical change and beliefs in global climate change: Understanding lake recreationists' willingness to conserve water*. Presented at the International Symposium for Society and Resource Management. Corpus Christi, TX.
- Powell, R., Brownlee, M., Kellert, S., & Ham, S. (June 2010). *An investigation of Awe: The Antarctica tourism experience*. International Symposium for Society and Resource Management. Corpus Christi, TX.
- Brownlee, M., Lacher, R., & Hartman, C. (June 2010). *Measuring changes in visitation densities across America's National Parks: An application of the Gini coefficient*. International Symposium for Society and Resource Management. Corpus Christi, TX.
- Lacher, R., & Brownlee, M. (April 2010). *Analyzing inequalities in recreation resource management: An application of the Gini coefficient*. Northeastern Recreation Resource Conference. Sagamore, Lake George, NY.

- Brownlee, M., Hallo, J., & Smith, B. (February 2010). *Lake Recreationists and water conservation: Do beliefs in climate change matter?* Southeastern Recreation Resource Conference. Greenville, SC.
- McKay, A., Brownlee, M., & Hallo, J. (February 2010). *An examination of changes in the on-site experience of appreciative recreationists at Congaree National Park.* Southeastern Recreation Resource Conference. Greenville, SC.
- Smith, B., Brownlee, M., & Hallo, J. (February 2010). *A comparison of indicators in camping satisfaction between tent and RV users.* Southeastern Recreation Resource Conference. Greenville, SC.
- Brownlee, M. & Hallo, J. (March 2009). *Visitors' perceptions of climate change.* George Wright Society Conference. Portland, OR.

Proceedings (Peer-Reviewed)

- Sharp, R., Brownlee, M., & Larson, L. (2012). Visitors' climate change beliefs and perception of climate-sensitive resources at Great Sand Dunes National Park. *Northeastern Recreation Resource Conference Proceedings.*
- Lacher, R., & Brownlee, M. (2010). Analyzing inequalities in recreation resource management: An application of the Gini coefficient. *Northeastern Recreation Resource Conference Proceedings.*

Invited Research Presentations

*indicates presented paper with current or past graduate student

- Brownlee, M. (August 2016). *A comprehensive survey of OHV riders in Utah: A benefits based analysis and economic expenditures.* Research report presented to the Division of State Parks and Recreation's Off-Highway Vehicle Program, Utah Department of Natural Resources.
- *White, K., & Brownlee, M. (July 2015). *Using GPS Visitor Tracking to inform sign placement in high use outdoor recreation areas.* Research report presented to the Bureau of Land Management, Monticello Field Office.
- Brownlee, M. (June 2015). *Ethics of negotiating authorship. Panel moderator and facilitator.* International Symposium for Society and Resource Management, Charleston, SC.
- Brownlee, M. (March 2015). *Preventative healthcare, parks, and recreation.* Panel moderator and facilitator. Utah Recreation and Parks Association Annual Conference, Provo, UT.
- Brownlee, M., & Bricker, K. (March 2015). *Healthy Parks, Healthy People: Maximizing the benefits of Utah's natural and cultural landscapes.* Utah Recreation and Parks Association Annual Conference, Provo, UT.
- Brownlee, M., Rose, J., & Bricker, K. (February, 2015). *Illegal marijuana cultivation on public lands: Management perspectives.* Presented at the 2015 Meeting of the Western Section of the Wildlife Society, Santa Rosa, California.

- Brownlee, M. (October, 2014). *Perceptions of climate change and the implications for natural resource management*. Quinney College of Natural Resources Seminar Series, Utah State University, Logan, UT.
- Brownlee, M. (March, 2014). *Park visitation and resource management challenges*. Presented at the Wallace Stegner Symposium, Salt Lake City, UT.
- Brownlee, M. (March, 2014). *Working with universities to improve your program*. Panel moderator and facilitator. Utah Recreation and Parks Association Annual Conference, St. George, UT.
- Brownlee, M. (March, 2014). *What agencies and interns need to know about the internship*. Panel moderator and facilitator. Utah Recreation and Parks Association Annual Conference, St. George, UT.
- *Gochenaur, R., & Brownlee, M. (February, 2014). *Measuring nature-based recreationists' beliefs in climate change: Occurrence and anthropogenic causation*. Presented at the Global Change and Sustainability Center Research Symposium, Salt Lake City, UT.
- *Altschuler, B., & Brownlee, M. (February, 2014). *Perceptions of climate change on the island of Providencia*. Presented at the Global Change and Sustainability Center Research Symposium, Salt Lake City, UT.
- *Sgalitzer, H., & Brownlee, M. (February, 2014). *Travelers' Philanthropy: Understanding tourists' motivations to financially donate at Sweetwater Chimpanzee Sanctuary*. Presented at the Global Change and Sustainability Center Research Symposium, Salt Lake City, UT.
- Brownlee, M. (June, 2013). Session Chair. *Alternative Energy, Part II*. International Symposium for Society and Resource Management. Estes Park, CO.
- Hallo, J., & Brownlee, M. (February, 2013). *The application of the VERP planning framework at Pinnacles National Park*. Presentation to the superintendent's management team at the Pinnacles National Park.
- *Gochenaur, R., & Brownlee, M. (January, 2013). *The meaning of "global climate change": Responses from three types of outdoor recreationists*. Presented at the Global Change and Sustainability Center Research Symposium. Salt Lake City, UT.
- *Altschuler, B., & Brownlee, M. (January, 2013). *Understanding local stakeholder perceptions of climate change on the island of Providencia, Colombia*. Presented at the Global Change and Sustainability Center Research Symposium. Salt Lake City, UT.
- Brownlee, M. (May, 2012). *Visitors' perceptions of climate change at Kenai Fjords National Park*. Interpreters' staff training at Kenai Fjords National Park. Seward, AK.
- Brownlee, M., Jodice, L., & Hallo, J. (April, 2012). *Incorporating social science data in the offshore wind energy planning process in South Carolina*. Department of Natural Resources – Fort Johnson Seminar Series. Charleston, SC.

- Brownlee, M. (March, 2012). *Visitor issues and climate change in parks and protected areas*. Presentation to park managers at Parques Nacionales Naturales de Colombia. Bogota, Colombia.
- Brownlee, M., & Hallo, J. (September, 2011). *The influence of park experiences on visitors' perceptions of climate change*. Inter-collegiate PRTM Research Seminar: Frontiers in Research.
- Brownlee, M., & Hallo, J. (August, 2011). *Understanding visitors' perceptions of climate change and best practices for interpretation*. Presentation to Education Specialists at Northwestern Aquariums. Seward, AK.
- Brownlee, M., & Hallo, J. (July, 2011). *Presentation to management staff - Visitors perceptions of climate change at Kenai Fjords National Park: Global beliefs and park specific attitudes*. Kenai Fjords National Park. Seward, AK.
- Brownlee, M., & Hallo, J. (July, 2011). *Presentation to the NPS Regional Office - Visitors perceptions of climate change at Kenai Fjords National Park: Global beliefs and park specific attitudes*. NPS Alaska Regional Office. Anchorage, AK.
- Brownlee, M. (May, 2011). *Part I: Implications for professional interpretation - Visitors perceptions of climate change at Kenai Fjords National Park*. Interpreters' staff training at Kenai Fjords National Park. Seward, AK.
- Brownlee, M., Hallo, J., & Jodice, L. (March, 2011). *Social impact analysis of proposed windpower on marine recreationists in South Carolina: Project overview and phase I results*. The spring meeting of the North Strand Coastal Wind Team. North Myrtle Beach, SC.
- Brownlee, M. (March, 2011). Session chair: *Responding to climate change: Where we've been, where we need to go*. The George Wright Society Conference. New Orleans, LA.
- Brownlee, M. (November, 2010). *Methods and Measurement: Perceptions of climate change in natural environments*. Colorado State University. Ft. Collins, CO.

Technical Reports and Research Notes

*indicates report with current or past graduate student

- *Brownlee, M., Verbose, R., & Merkel, C. (2016). *OHV Riders in Utah: Benefits Based and Outcomes Focused Management*. Technical report submitted to the Division of State Parks and Recreation's Off-Highway Vehicle Program, Utah Department of Natural Resources.
- *Brownlee, M., Verbose, R., & Merkel, C. (2016). *OHV Riders in Utah: Economic Expenditures*. Technical report submitted to the Division of State Parks and Recreation's Off-Highway Vehicle Program, Utah Department of Natural Resources.
- *Gatti, E., Brownlee, M., & Peterson, B. (2016). *Evaluating and Mapping Student Preferences for Trail Features along Red Butte Creek*. Technical report submitted to the Friends of Red Butte Creek.

- *White, K., Brownlee, M., Furman, N., Beeco, A. (2015). *Climber access trail mapping and GPS visitor tracking in Indian Creek Utah*. Technical report submitted to the Bureau of Land Management.
- Bricker, K., Brownlee, M., & Rose, J. (alphabetical order, 2014). *Illegal marijuana cultivation on public lands: Management perspectives*. Technical report submitted to the United States Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Fish and Wildlife Service, High Intensity Drug Trafficking Area Program, National Park Service, and Forest Service.
- *Brownlee, M., Bricker, K., & Altschuler, B. (2014). *Backcountry winter use assessment of the Central Wasatch Mountains*. Technical report submitted to the Wasatch Backcountry Alliance.
- *Brownlee, M., & Gochenaur, R. (2014). *Recreation Use Assessment of the NHMU Parcel of the Bonneville Shoreline Trail*. Technical report submitted to the Natural History Museum of Utah.
- Bricker, K., & Brownlee, M. (2014). *Human Dimensions of Winter Use in Yellowstone National Park: A Research Gap Analysis (1972-2013)*. With substantial assistance from PRT 5960/6960. Technical report submitted to the National Park Service.
- Hallo, J., Brownlee, M., & Fix, M. (2013). *The application of the VERP planning framework at Pinnacles National Park*. Technical report submitted to the National Park Service.
- Hallo, J., Manning, R., Brownlee, M., & Smith, B. (2012). *Visitor Use Study at Cumberland Island National Seashore: Transportation and carrying capacity*. Technical report submitted to the National Park Service.
- Brownlee, M., Hallo, J., & Jodice, L. (2011). *2011 Survey of marine recreationists' attitudes towards potential offshore wind energy in South Carolina*. Technical report submitted to Sea Grant Consortium, SC Department of Energy, and Santee Cooper Energy Corporation.
- Brownlee, M., & Hallo, J. (2011). *Visitors' perceptions of climate change at Kenai Fjords National Park: Global beliefs and park specific attitudes*. Technical report submitted to the National Park Service.
- Brownlee, M., & Hallo, J. (2009). *Visitor demographics and satisfaction of facilities*. Technical report submitted to the Army Corps of Engineers.
- Brownlee, M., & Hallo, J. (2009). *Perceptions of drought, on-site behavior, and willingness to donate*. Technical report submitted to the South Carolina State Botanical Garden.

Selected Research Projects

*indicates substantial involvement of current or past graduate students

- **CNH-L: Adaptation, mitigation, and biophysical feedbacks in the changing Bonneville Salt Flats.* (Bowen, B., Brownlee, M., Brazelton, B., & Harman, C.). University of Utah, the National Science Foundation, and the Bureau of Land Management. Research to evaluate the social and biophysical reciprocity in the changing Bonneville Salt Flats. **Brownlee:** Co-PI. Current.
- * *Wasatch Front Wilderness Stewardship: Assessing and monitoring opportunities for solitude.* (Brownlee, M., & Rose, J.). University of Utah and the U.S.D.A. Forest Service. Research to evaluate wilderness quality in three designated wilderness areas along the Wasatch Front. **Brownlee:** Co-PI. Current.
- **Towards a better understanding of nature's resiliency-building and restorative power for Armed Forces personnel, veterans, and their families.* (Dustin, D., Bricker, K., Brownlee, M., Bryan, C., & Rathunde, K.) University of Utah, the National Center for Veteran Studies, and the Keneda Fund. Research to identify and evaluate nature's resiliency-building and restorative power for Armed Forces personnel, veterans, and their families. **Brownlee:** Co-PI. Current.
- **Temporal and spatial distributions of visitor use and associated impacts on natural and social conditions at Buffalo National River.* (Sharp, R., & Brownlee, M.). Kansas State University, University of Utah, and the U.S. National Park Service. Research to inform management at Buffalo National River. **Brownlee:** Co-PI. Current.
- **Understanding visitor use at Cumberland Island National Seashore.* (Sharp, R., & Brownlee, M.). Kansas State University, University of Utah, and the U.S. National Park Service. Research to inform management at Cumberland Island National Seashore. **Brownlee:** Co-PI. Current.
- **Evaluation of human use and health outcomes on the Jordan River Trail before and after infrastructure improvement* (Brownlee, M.). University of Utah and the Jordan River Foundation. Research to understand the efficacy of sign placement on trail use. **Brownlee:** PI. Current.
- **The relationship between trail conditions, trail features, and hiking quality on the Appalachian Trail.* (Petersen, B., & Brownlee, M.). University of Utah, Virginia Tech University, and the National Park Service. Research to understand long-distance hikers' opinions about trail and hiking quality. **Brownlee:** Co-PI. Complete.
- **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 spatially map social preference data in order to outline, compare, and propose the three most socially desirable trail routes. **Brownlee:** PI. Complete.
- **Understanding visitors' potential response to projected glacial retreat at Kenai Fjords National Park.* (Moser, M., & Brownlee, M.). University of Utah and the U.S. National Park Service. Research to evaluate park visitors' potential response to projected glacial recession. **Brownlee:** Co-PI. Complete.

- **A Comprehensive Survey of OHV Riders in Utah: Benefits Based Analysis and Economic Impact.* (Brownlee, M.). 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. **Brownlee:** PI. Complete.
- **Winter recreationists' soft and hard adventures, sense of place, and perceptions of seasonal attributes at Yellowstone National Park.* (Bricker, K., & Brownlee, M.). University of Utah, the Winter Group coordinated by Norwegian Arctic University, and Yellowstone National Park. Research to understand the winter recreation experience at Yellowstone National Park. **Brownlee:** Co-PI. Complete.
- **Visitor perceptions of campsite conditions on Forest Road #085-Holman Flat of Uintah-Wasatch-Cache National Forest.* (Marshall, S., & Brownlee, M.). University of Utah, the United States Forest Service. Research to understand visitors' normative standards of recreational impacts. **Brownlee:** Co-PI. Complete.
- **Inspiring curiosity and caring for birds: Predictors of visitors' conservation intentions.* (Roa, C., & Brownlee, M.). University of Utah, the Tracy Aviary. Research to understand the conservation outcomes of a visit to the Tracy Aviary. **Brownlee:** Co-PI. Complete.
- **Evaluation of the Community Education at the Big Bend Habitat Restoration Site, Utah.* (Brownlee, M.). University of Utah, the Jordan River Commission, and the National Fish and Wildlife Foundation. Research to evaluate the efficacy of volunteer engagement at the Big Bend Habitat Restoration Site. **Brownlee:** PI. Complete.
- **Climber access trail mapping and GPS visitor tracking in Indian Creek Utah.* (White, K., & Brownlee, M.). University of Utah and the Bureau of Land Management. Research to understand the temporal and spatial distribution of climber activity at Indian Creek Utah. **Brownlee:** Co-PI. Complete.
- **Backcountry Winter Use Assessment of the Central Wasatch Mountains.* (Brownlee, M. & Bricker, M.). University of Utah and the Wasatch Backcountry Alliance. Research to evaluate the use and opinions of winter backcountry users in the Central Wasatch Mountains (Utah). **Brownlee:** Co-PI. Complete.
- Evaluation of Permitted Hunts at Cumberland Island National Seashore and Hunters' Perceptions of Invasive Species Management.* (Sharp, R., & Brownlee, M.) University of Utah, Eastern Kentucky University, and the National Park Service. Research to understand and evaluate the permitted hunting experience and visitors' perceptions of invasive species management at Cumberland Island National Seashore. **Brownlee:** Co-PI. Complete.
- **Recreation Use Assessment of the Utah Museum of Natural History Parcel of the Bonneville Shoreline Trail.* (Brownlee, M. & Gochenaur, R.). University of Utah and the Utah Natural History Museum. Research to evaluate recreation use on the Bonneville Shoreline Trail (BST) on and near the UMNH with the intent of providing data to inform trail management decisions. **Brownlee:** PI. Complete.

Changing Ice, Changing Public: Evaluating Glacial Rephotography as an Education Tool.* (Brownlee, M., Gochenaur, R., Gookin, J., & Pohja, M.). University of Utah and the National Outdoor Leadership School. Research to develop a methodology and evaluate the effectiveness of using glacial repeat photography as a climate change education tool in backcountry settings. **Brownlee: PI. Complete.

Prioritizing Conservation Actions for North American Grizzly Bears (Ursus arctos) By Testing Their Efficacy as a Flagship Species* (Brownlee, M., Skibins, J., & Gochenaur, R.). University of Utah, St. Francis University, and Denali National Park. Research to support direct public conservation actions for grizzly bears at Denali National Park and throughout North America. **Brownlee: Co-PI. Complete.

Cannabis Cultivation on Public Lands: Management Perspectives. (Brownlee, M., Rose, J., & Bricker, K). University of Utah. Research to document and communicate the management challenges of preventing, mitigating, and responding to cannabis cultivation on public lands. **Brownlee:** Co-PI. Complete.

Understanding climate change perceptions at the National Outdoor Leadership School.* (Brownlee, M., Gochenaur, R., Gookin, J., & Pohja, M.). University of Utah and the National Outdoor Leadership School. Research to evaluate scale performance and perception variance of NOLS students. **Brownlee: PI. Complete.

Climate change adaptation and perceptions of resource dependent citizens in Providence Island, Colombia.* U.S. Department of State and Partners of the Americas. (Brownlee, M.). Research to identify informal adaptation behaviors and climate change perceptions among local citizens. **Brownlee: Project leader; design, data collection, analysis, and reporting. Complete.

Park managers' perceptions' of climate change, social resiliency, and adaptation in Colombia National Natural Parks. (Brownlee, Figueroa, Levine, Zamudio, & Guevara). Clemson University. Research to support park management decisions regarding climate change vulnerability planning in Colombia National Natural Parks. **Brownlee:** PI. Complete.

The application of the VERP planning framework at Pinnacles National Park (Hallo, J.) Clemson, SC: Clemson University. Research to support visitor carrying capacity decisions and alternative transportation planning. **Brownlee:** Data analysis and reporting. Complete.

Visitors' perceptions of climate change and attitudes towards invasive species at Great Sand Dunes National Park. (Sharp, R., Brownlee, M., & Larson, L.). Eastern Kentucky University. Research to support park management decisions regarding climate change and invasive species at Great Sand Dunes National Park. **Brownlee:** Co-PI. Complete.

Cumberland Island National Seashore visitor use study. U.S. National Park Service. (Hallo, J. & Manning, R.). Research to support visitor carrying capacity decisions and alternative transportation planning. **Brownlee:** Phase Two Project Leader; coordination of data collection, analysis, reporting. Complete.

Social impact analysis of offshore wind energy development in South Carolina: A focus on marine recreationists and beach users. North Myrtle Beach and Georgetown, SC. (Brownlee, M., Hallo, J., & Jodice, L.). Research to identify attitudes towards wind energy development and perceptions of climate change. **Brownlee:** Project Leader; budgeting, design, coordination of data collection, analysis, reporting. Complete.

Development of an action plan to increase the sustainable and regionally appropriate use of natural and historic resources in Union County, SC. Union County South Carolina. (Hallo, J., & Norman, B., & Brookover, B.). Research to develop sustainable heritage tourism in Union County South Carolina. **Brownlee:** Data collection. Complete.

Visitors' perceptions of climate change at Kenai Fjords National Park. U.S. National Park Service. (Brownlee, M., & Hallo, J.). Research to identify visitors' perceptions of climate change. **Brownlee:** Project Leader; design, collection, analysis, reporting. Complete.

U.S. Army Corps of Engineers visitor use and visitor perceptions at Lake Hartwell. U.S. Army Corps of Engineers. (Brownlee, M., Hallo, J.). Research to identify visitor use behavior and perceptions of climate change. **Brownlee:** Project Leader; design, coordination of collection, analysis, reporting. Complete.

Congaree National Park: An examination of changes in the on-site experience of appreciative recreationists. U.S. National Park Service. Research to identify the impact of resource attributes on the visitor experience. (McKay, A., & Hallo, J.). **Brownlee:** Data analysis and reporting. Complete.

U.S. Army Corps of Engineers visitor satisfaction at Lake Hartwell. U.S. Army Corps of Engineers. (Brownlee, M., Hallo, J. & Smith, B.). Research to identify visitor satisfaction. **Brownlee:** Project Leader; design, collection, analysis, reporting. Complete.

Building Sustainable Community-Based Economic Development and Management Linkages Between Traditional Coastal-Dependent Businesses and South Carolina's Recreation And Tourism Industry. South Carolina coastal communities. (Norman, B., & Hughes, D.). **Brownlee:** Data collection. Complete.

South Carolina Botanical Gardens visitor use study. State of South Carolina. (Brownlee, M., & Hallo, J.) Research to identify visitor use behavior and preferences for management options. **Brownlee:** Project Leader; design, coordination of data collection, analysis, reporting. Complete.

*Understanding outdoor recreation opportunities associated with wild hog (*sus scrofa*) populations adjacent to the Great Smoky Mountain National Park.* Clemson University and the Great Smoky Mountains National Park. (Baldwin, B) Research to identify drivers and motivators for wild hog hunting activities inside and bordering the national park. **Brownlee:** Project Leader; design, collection, analysis, reporting. Complete.

Funded Community Projects and Outreach (Non-Research)

*indicates substantial involvement of current or past graduate students

Jordan River Parkway Urban Water Rangers and youth environmental education program* (Brownlee, M., Furman, N., & Hanson, L). University of Utah, the U.S. National Park Service, the Jordan River Commission, and the Outdoor Foundation. The project directly engages 40 University students and over 300 youth during a semester. Urban Rangers (University students) greet trail users and provide information about important resource issues that affect the watershed. **Brownlee: Co-coordinator. Current.

Training module development for Sustainable Tourism and Protected Area Management (Bricker, K., & Brownlee, M.). University of Utah, SENAC, and the International Ecotourism Society. Develop online training module development for Sustainable Tourism and Protected Area Management. **Brownlee:** Co-instructor. Current.

Outreach to support Every Kid in the Park campaign.* (Brownlee, M., & Jones, C.). University of Utah and the U.S. National Park Service. Instruction and outreach for the U.S. National Park Service Centennial and the *Every Kid in the Park* campaign. **Brownlee: Co-Coordinator. Current.

Bonneville Shoreline Trail Urban Ranger Program.* (Brownlee, M., & Furman, N.). University of Utah, the U.S. National Park Service, and the Outdoor Foundation. The project directly engages 40 University students and over 300 youth during a semester. Urban Rangers (University students) greet trail users and provide information about important resource issues that affect the watershed. **Brownlee: Co-coordinator. Current.

Editorial Experience

Journal of Park and Recreation Administration. Guest Co-Editor. 34(1) and 34(2), 2016
Leisure Sciences. Associate Editor. 2013 – present
Journal of Park and Recreation Administration. Associate Editor. 2015-present

Invited Reviews

National Science Foundation. Grant review. 2016
Tourism Geographies. Manuscript review. 2015, 2016
Journal of Outdoor Recreation and Tourism. Manuscript review. 2015
Society and Natural Resources. Manuscript review. 2014
National Park Service: Yellowstone National Park. Research project review. 2014
Journal of Park and Recreation Administration. Manuscript review. 2014, 2015
Sea Grant Consortium. Grant review. 2013
Global Change and Sustainability Center. Grant review. 2012, 2013
Leisure Sciences. Manuscript review. 2011, 2012a, 2012b, 2013a, 2013b, 2013c, 2013d, 2014, 2015a
Environmental Education Research. Manuscript review. 2011, 2013a, 2013b, 2013c, 2013d, 2014a, 2014b, 2014c, 2015a, 2015b

Environmental Management, Manuscript review. 2013
The Journal of Applied Geography. Manuscript review. 2013
Environment & Behavior. Manuscript review. 2013, 2016
Journal of Agricultural Extension and Rural Development. Manuscript review. 2013
Journal of Travel Research. Manuscript review. 2012
Event Management. Manuscript review. 2012
National Environmental Education Foundation. Grant reviewer. 2011
Journal of Park and Recreation Administration. Manuscript review. 2010, 2014, 2015
Journal of Tourism Research. Manuscript review. 2010
Tourism Management. Manuscript review. 2010
Social Research Methods, 4th ed. Book review, Bryman, A. Oxford University Press. 2010
Local Environment. Manuscript review. 2010

Teaching

Fall 2016, PRT 6550, *Interpreting Research* (University of Utah). Exploration of research design and results to increase students' ability to read, interpret, and use research literature. Prerequisite: Graduate students.

Spring 2013, 2014, 2015, 2016, PRT 5420/6420, *Ecology and Management of Wildland Recreation Settings* (University of Utah) Explores ecological systems and practices management of physical and social aspects of public lands. Physical impacts to soil, water, plants, and wildlife are examines in light of recreation activities and efforts by land managers and citizens to ameliorate these effects. Prerequisite: PRT 3500

Spring 2015, 2016, PRT 6800, *Seminar in Parks, Recreation and Tourism: Graduate Research Symposium*. (University of Utah).

Fall 2014, 2016, PRT 6030, *Seminar in Management and Facilitation of Recreation Experiences* (University of Utah) Applying theory to the management and facilitation of recreation experiences in order to generate specific, predetermined outcomes. Prerequisite: Graduate students.

Fall 2013, 2015, PRT 6010, *Introduction to Behavioral Science Foundations in Parks, Recreation, and Tourism* (University of Utah) An examination of leisure and recreation behavior from psychological and sociological perspectives. Prerequisite: Graduate students.

Fall 2013, PRT 5960/6960, *Sustainable Tourism and Protected Area Management* (University of Utah) A critical examination of the confluence between sustainable tourism planning and protected area management. On line and hybrid application.

Spring 2013, PRT 5965/6965, *On-site Policy Analysis* (University of Utah) On-site experiences include interviews with stakeholder groups, recreation managers, and government representatives. On-campus experiences include empirical policy analysis based on systems modeling, coordination of process of development of policy recommendations from students, and provision of feedback to stakeholder groups. Prerequisite: PRT 3500 or consent

Fall 2012, 2013, 2014, Summer 2013, PRT 3207, *Management in Parks, Recreation, and Tourism* (University of Utah) Systematic approach to management in the PRT industry. Students analyze contemporary issues and practices, and trends that transform the way employees in the hospitality industry are managed.

Spring 2012, PRTM 431, *Methods of Environmental Interpretation* (Clemson University) Practice and instruction in the methods of interpretation; evaluation of live programs and execution of environmental interpretation. Prerequisite: PRTM 300 or consent of instructor.

Fall 2011, PRTM 330, *Visitor Services and Interpretation* (Clemson University) Comprehensive survey and application of interpretive theory as it applies to the recreation and park practitioner and the varying settings within the profession. Junior and Senior standing.

Spring 2011, Fall 2010* Spring 2012, LS 101-200, *Challenge and Adventure Activities* (Clemson University) Students broaden their challenge and adventure skills and improve self-image through challenge and adventure activities.

Fall 2009, PRTM 409, *Methods of Recreation Research I* (Clemson University) Analysis of the principle methods of recreation research, the application of descriptive statistics to recreation research, and the development of a research proposal. Senior standing.

Maymester 2009, Spring 2009, PRTM 321, *Recreation Administration* (Clemson University) Analysis of the internal organization of a recreation department dealing with finances and accounting, records and reports, publicity and public relations, state and federal legislation, and staff organization. Junior standing.

Spring 2003, REC 108 Long Distance Bicycle Touring (Aurora University)

Winter 2003, REC 208 Professional First Aid/CPR/AED (Aurora University)

Fall 2002, REC 107 Backpacking (Aurora University)

Winter 2003, Fall 2002*, REC 106 Rock Climbing (Aurora University)

Invited Lectures

Spring, 2015, *Air quality in Salt Lake City: Why we care or don't care (enough)*. GCSC: Global Changes and Society class. University of Utah

Spring, 2013, *The human dimensions of conservation and change: Why 'place' matters*. GCSC: Global Changes and Society class. University of Utah

Fall, 2011, *Examining the impact of a National Park visit on climate change perceptions*. South Carolina Public Radio. Interview and conversation disseminated statewide.

Fall, 2011, *Addressing climate change in parks from a social science perspective*. National Park Service Education Consortium (Congaree National Park). Presentation to NPS superintendents and resource managers.

Summer, 2011, *What does the phrase global climate change mean to you? Data coding techniques and strategies*, PRTM 900, Qualitative Research Methods (Clemson University). In depth and timely study of trends or problems in Qualitative Research. Graduate student standing.

Spring, 2011, *Operationalizing variables*, PRTM 811 Research Methods in Parks, Recreation and Tourism Management (Clemson University) Principles, methods, and strategies for planning, designing, evaluating, and applying studies of recreation. Graduate student standing.

Spring, 2010, *Climate change in parks and protected areas*, PRTM 474 Advanced Recreation Resource Management (Clemson University) Advanced topics in recreation resource management focusing on management strategies and techniques for addressing common resource and social problems in recreation resource management. Senior standing.

Fall 2010, *Why do we have parks and protected areas?* PRTM 220 Conceptual Foundations of Parks, Recreation and Tourism (Clemson University) Introduces students to the conceptual foundations of play, recreation, and leisure as they relate to contemporary society, the lifespan, and the natural environment.

Fall 2009, *Judging student debates*, PRTM 320 Recreation Resource Policymaking (Clemson University) Structures and processes for public park and/or recreation policy formation in the United States.

Fall 2009, *Designing research and professional posters*, PRTM 342 Introduction to Tourism (Clemson University) Survey of travel and tourism in the United States with focus on terminology, demographics, financial significance, and trends.

Doctoral Committees

Bennett, Troy (Committee Member). Ph.D. in progress at the University of Utah. *TBD*.
Hunt, Mercedes (Committee Member). Ph.D. in progress at the University of Utah. *TBD*.
Gatti, Elise (Chair). Ph.D. in progress at the University of Utah. *TBD*.
Nichols, Kirk (Committee Member). Ph.D. in progress at the University of Utah. *TBD*.
Richmond, Dan (Committee Member). Ph.D. in progress at the University of Utah. *TBD*.
Schultz, Jeremy (Committee Member). 2013: Ph.D. from the University of Utah
Spencer, Callie (Committee Member). 2013: Ph.D. from the University of Utah
Tanner, Preston (Committee Member). Ph.D. in progress at the University of Utah. *TBD*.
Verbos, Rose (Chair). 2016: Ph.D. from the University of Utah. *The influence of weather on outdoor recreation: A research synthesis, a weather dependency framework, and recreationists' perceptions*.
Zajchowski, Chris (Chair). Ph.D. in progress at the University of Utah. *TBD*.

Masters Committees

Gao, Siqu (Committee Member). 2014: M.S. from the University of Utah
Gomm, Katie (Committee Member). 2013: M.S. from University of Utah, *The effect of mindfulness mediation and setting on affect, attentional functioning, and tranquility*.
Florence, Tyler (Committee Member). 2014: M.S. from the University of Utah
Hansen, Jacob (Committee Member). 2015: M.S. from at the University of Utah

Hopkinson, Jared (Committee Member). M.S. in progress at the University of Utah

Johnson, Dru (Chair). 2013: M.S. from the University of Utah, *Recreation Resources Inventory and Characterization of Centennial Valley, MT.*

Katz, Rebecca (Committee Member). 2013: M.S. from the University of Utah, *Sustainable Tourism Planning in Utah.*

Kraja, Arben (Chair). M.S. in progress at the University of Utah. *TBD.*

Marshall, Shantel (Chair). 2016: M.S. from the University of Utah. *Visitor perceptions of campsite conditions on Forest Road #085-Holman Flat of Uintab-Wasatch-Cache National Forest.*

Moser, Megan (Chair). 2016: M.S. from the University of Utah. *Visitor's responses to potential retreat of Exit Glacier at Kenai Fjords National Park.*

Peterson, Brian (Chair). 2016 M.S. from the University of Utah. *The relationship between trail conditions, trail features, and hiking quality on the Appalachian Trail.*

Reed, Melanie (Committee Member). 2015: M.S. from the University of Utah

Roa, Carolina (Chair). 2016: M.S. from the University of Utah, *Inspiring curiosity and caring for birds: Predictors of visitors' conservation intentions.*

Schwing, Zachary (Committee Member). M.S. in progress at the University of Utah. *TBD.*

Sgalitzer, Hillary (Chair). 2013: M.S. from the University of Utah, *The influence of messaging, conservation caring, and trust on the tourists' motivation to provide financial donations at the Chimpanzee Sanctuary in Ol Pejeta Conservancy, Kenya, Africa.*

Scofield, Alaina (Committee Member). 2013: M.S. from the University of Utah

Valentine, Julietta (Committee Member). 2015: M.S. from the University of Utah.

White, Kathryn (Chair). 2014: M.S. from the University of Utah. *Climber access trail mapping and GPS visitor tracking in Indian Creek Utah.*

Wood, David (Chair). 2013: M.S. from the University of Utah. *Curriculum development for a youth fly-fishing program.*

Service

Executive Committee, *Rocky Mountain Cooperative Ecosystems Studies Unit*, 2012-present

Executive Committee, *Colorado Plateau Cooperative Ecosystems Studies Unit*, 2012-present

Executive Committee, *Desert Southwest Cooperative Ecosystems Studies Unit*, 2012-present

Executive Committee, *Great Basin Cooperative Ecosystems Studies Unit*, 2013-present

Associate Editor, *Leisure Sciences*, 2013 – present

Associate Editor, *Journal of Park and Recreation Administration*, 2013 – present

Computer Committee, *College of Health at the University of Utah*, 2012-present

Chair, *Intermountain Leisure Research Symposium at the Utah Recreation and Parks Association*, 2014

Education Representative and Board Member, *Utah Recreation and Parks Association*, 2013-2015

Research & Travel Grant Committee Member, *Global Change and Sustainability Center*, 2013a, 2013b

Undergraduate Council Member, *University of Utah*, 2012-2015

Session Moderator - ISSRM, *Estes Park, CO, June 2013*

Acting Secretary of the Board of Directors, *Clemson University Institute for Parks*, 2011- 2012

Chair of Concurrent Session: Climate Change – *GWS, New Orleans, LA, Spring 2011*

Acting Secretary of the Board of Directors, *Hartzog Institute for Parks*, 2010-2011

Graduate student representative at department faculty meetings, *Clemson University*, 2009-2010

Session Moderator - ISSRM, *Corpus Christi, TX, Summer 2010*

Dean's Graduate Advisory Group, *Clemson University*, 2008 – 2010

Honors and Awards

New Investigator Award, *College of Health at the University of Utah*, 2016
Graduate Research Assistant of the Year Award, *the Graduate School of Clemson University*, 2012
Graduate Student Award of Excellence, *College of HEHD at Clemson University*, 2012
Graduate Student Award, *PRTM at Clemson University*, 2012
Climate Change Fellowship, Partners of the Americas, Colombia, *U.S. Department of State*, 2012
George B. Hartzog, Jr. Fellowship, *Hartzog Institute for Parks*, 2010
Student Scholarship, *International Symposium for Society and Resource Management*, 2010 and 2011
Outstanding Presentation, *Southeastern Recreation Resource Conference*, 2009 and 2010
The Rose Award for outstanding service to clients, *The Adolescent Recovery Center*, 2004
Judith Myers Outstanding Graduate Student Award, *Aurora University*, 2003
Major Merit Award from the Outdoor Education Department, *Northland College*, 1999

Certifications and supplementary education

Certified Therapeutic Recreation Specialist (CTRS), *The National Council for Therapeutic Recreation Certification*, 2004 - 2009
Wilderness First Responder (WFR), 2000-2009
Basic Camp Director Course, *American Camp Association*, 2003
Kayak - Three Star Skill Rating, *British Canoe Union*, 1997

Professional Experience

Assistant Professor, *Department of Parks, Recreation, and Tourism, University of Utah, Salt Lake City, Utah* 2012 – present. Coordinator of the Natural Resources Recreation Planning and Management emphasis area; design and completion of research projects; graduate advising; teaching in the undergraduate and graduate curriculum.

Affiliate Faculty, *Global Change and Sustainability Center, University of Utah, Salt Lake City, Utah* 2012 – present.

Recreation Therapist, *Coastal Harbor Treatment Center, Savannah, GA* 2007-2008
Managed a primary case of adolescents with diagnosed mental illnesses in an acute setting. Designed multi-disciplinary interventions; extensive therapeutic facilitation and client and program documentation. CTRS internship supervision.

Coordinator of Wilderness Programs, *Soltreks, Inc., Two Harbors, MN* 2004-2007
Recruitment, retention, training, and supervision of professional and seasonal staff. Development of new programs, policies and procedures, and creation and management of new positions. CTRS internship coordination. Administration of outcome research and testing for Outdoor Behavioral Healthcare Research Cooperative (OBHRC) (OBHC). Coordinated all programming elements and student admissions.

Recreation Therapist, *Ridge Behavioral Health Systems, Inc. Lexington, KY 2003-2004*
Managed a primary case of adolescents with dual diagnosed mental illnesses in an acute setting. Design of multi-disciplinary interventions; extensive therapeutic facilitation and client and program documentation. CTRS internship mentoring.

Recreation Therapist, *The Adolescent Recovery Center, Lexington, KY 2003-2004*
Managed recreation therapy delivery for adolescents participating in the treatment of substance abuse. Design of recreation therapy program, program assessments, evaluation, and development.

Recreation Therapist Internship (*CTRS Internship*), *Inner Harbour Hospitals, Ltd. Douglasville, GA 2003*
Facilitated experiential based therapy, including outdoor and high adventure activities, for adolescent female patients. Additional interventions included experiential-based family sessions, individual counseling and pet and equine assisted therapies.

Additional teaching and facilitation experience

Graduate Research and Teaching Assistant, *Department of Parks, Recreation and Tourism Management, Clemson University, Clemson, SC 2008 – 2012*. Designed and completed research projects; instructed undergraduate classes in Parks, Recreation and Tourism Management.

Instructor, *The Crisis Prevention Institute, Ridge Behavioral Health, Lexington, KY, 2003-2004*, Primary agency instructor of the Non-Violent Crisis Intervention curriculum for staff certification.

Instructor, *The American Red Cross, Aurora University, Aurora, IL 2002-2003*
First Aid, CPR and AED for undergraduate students.

Graduate Assistant, *Recreation Administration Department, Aurora University, Aurora, IL, 2002 – 2003*
Completed departmental projects, assisted with scholarly duties, advised undergraduate students, projected needs for the department's equipment and physical resources and managed inventory control, and instructed undergraduate classes in Recreation Administration.

Wilderness Instructor, *Soltreks, Inc. Silver City, NM; Granbury, TX & Duluth, MN, 2002*
Cooperatively planned and facilitated numerous backcountry wilderness courses (each 30 + days in length) in remote settings with young adults. Utilized experiential therapy methods in a high desert and mountain environments.

Wilderness Instructor, *Wilderness Endeavors, Thistledew Camp, Minnesota Department of Corrections Togo, MN, 1999-2002*. Developed, planned and facilitated 16 backcountry multi-element wilderness therapy courses (each 21 + days in length) in remote settings with court referred and adjudicated adolescents. Demonstrated a consistent ability to safely facilitate high ropes programs, rock climbing programs and various modes of extended wilderness travel, including, but not limited to whitewater and flat water canoeing, backpacking, winter camping and ski travel.

Wilderness Instructor, *Tressler Care Wilderness School Boiling Springs, PA, 2000*
Safely facilitated numerous multi-state wilderness therapy courses (30 + days in length) with court protected adolescents.

Lead Instructor and Primary Guide, *Trek & Trail International Learning Adventures Bayfield, WI 1998-2001*; Successfully designed and taught over 70 multi-day sea kayak and dog sledding trips in various remote locations with adult clients.

Internship Supervision

Graduate Level

Mark Denzer, Southern Illinois University, *Therapeutic Recreation internship, Soltreks, Inc., Winter 2007*

Nihal Hassan, Northern Illinois University, *Clinical Counseling internship, Dual supervision with Kathleen Rennan, Soltreks, Inc., Winter 2007*

Leah Sullivan, Springfield College, *Therapeutic Recreation internship, Soltreks, Inc., Summer 2006*

Jason Kirby, University of Wisconsin at La Crosse, *Therapeutic Recreation internship, Soltreks, Inc., Winter 2006*

Undergraduate Level

Amanda Black, Georgia Southern University, *Therapeutic Recreation internship, Coastal Harbor Treatment Center, Summer 2008*

Emily Thelen, University of Wisconsin at La Crosse, *Therapeutic Recreation internship, Soltreks, Inc., Summer 2007*

John Nehme, Vanderbilt University, *Organization Management, Soltreks, Inc. Summer 2007*

Robert Flores, Winona State University, *Therapeutic Recreation internship, Soltreks, Inc., Summer 2007*

Jessica Rhea, Radford University, *Therapeutic Recreation internship, Soltreks, Inc. Summer 2007*

Clarissa Bastian, Winona State University, *Therapeutic Recreation internship, Soltreks, Inc., Summer 2006*

Alicia Garrison, Indian Wesleyan University, *Therapeutic Recreation internship, Soltreks, Inc., Summer 2006*

Amy Neuwsmma, Indian Wesleyan University, *Therapeutic Recreation internship, Soltreks, Inc., Summer 2006*

Ian Rosa, Central Michigan University, *Wilderness Recreation Management Internship, Soltreks, Inc., Summer/Fall 2006*

Jahna Hardy, University of Manitoba, *Wilderness Recreation Management internship, Soltreks, Inc., Winter 2006*

Megan Lau, University of Missouri- Columbia, *Therapeutic Recreation internship, Dual supervision with Lorri Hanna, Soltreks, Inc., Winter 2005*

Courtney Vansant, Northland College, *Outdoor Education internship, Soltreks, Inc., Winter 2005*

Kristy Hemley, Eastern Kentucky University, *Therapeutic Recreation internship, Ridge Behavioral Health Systems, Inc., Fall 2004*