

B. Derrick Taff

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EDUCATION

PhD: Human Dimensions of Natural Resources May 2012
Colorado State University Ft. Collins, Colorado

Master of Arts: American Studies May 2005
The University of Alabama Tuscaloosa, Alabama
Extensive Coursework: National Parks of the United States

Bachelor of Arts: Wilderness Recreation August 2003
The University of Alabama Tuscaloosa, Alabama
Extensive Coursework: Natural Sciences and Communication

CAREER EXPERIENCE

Assistant Professor January 2015 – Present
Pennsylvania State University (PSU), Recreation, Park and Tourism Management State College, PA

- Conduct research and develop management reports that inform communication efforts as it pertains to visitor use management, human behavior, and social and ecological health and wellbeing in parks and protected areas
 - Manage, organize and develop research logistics, social science surveys, and Federal Office of Management and Budget and Internal Review Board processes; organize data collection and analyses, and facilitate writing of research reports and peer-reviewed journal articles
- Serve as PSU Graduate Faculty
 - Department of Recreation, Park and Tourism Management
 - Human Dimensions of Natural Resources and the Environment Program
 - Advise and co-manage graduate student researchers (three PhD students and two masters student), and three undergraduate research assistants
- Co-manage Social Science Acoustics Laboratory and serve as Faculty of the Protected Areas Research Collaborative (PARC)
- Currently teach the following course:
 - RPTM 120 – “Leisure and Human Behavior” 3-hour Credit Course

Research Associate and Research Assistant Professor July 2013 – December 2014
Pennsylvania State University (PSU), Recreation, Park and Tourism Management State College, PA

Postdoctoral Research Associate March 2012 – June 2013
Colorado State University (CSU), Human Dimensions of Natural Resources Fort Collins, CO

Visitor Use Management Outdoor Recreation Planner (STEP) September 2011 – March 2012
National Park Service Denver Service Center, CO

Graduate Research Assistant in the Park Studies Unit – PhD Student August 2008 – March 2012
Colorado State University (CSU), Human Dimensions of Natural Resources Fort Collins, CO

Outdoor Recreation Program Manager February 2008-July 2008
Outdoor Recreation Program Coordinator May 2005-February 2008

RESEARCH EXPERIENCE

Research Focus:

My research strives to improve understanding of communication strategies aimed at influencing human and environmental health regarding protected areas. I have established three focal domains that advance this line of research, including: 1) communication strategies regarding Leave No Trace-based (LNT) behaviors, 2) nature-based recreation/leisure engagement for the health of protected area visitors and military service member populations, and 3) human well-being as it pertains to natural sounds.

PUBLICATIONS (*indicates author is or was advisee; **undergraduate student)

Articles published in refereed journals:

34. Backman, C., Vaske, J., Lawhon, B., Vagias, W., Newman, P., Coulson, E., & **Taff, B. D.** (Accepted). Visitors' views of Leave No Trace Principles across a national park, a national forest and three state parks. *Journal of Parks and Recreation and Administration*.
Role: 35% of authorship, collected data, and contributed to the conceptualization of the paper.
33. Pitas, N., Mowen, A. J., Taff, B. D., Hickerson, B., Radhakrishna, R., & Graefe, A. (2018). Attitude strength and structure regarding privatization of local public park and recreation services. *Journal of Park and Recreation Administration*, 36(3), 141 - 159.
Role: 15% of authorship, contributed to the conceptualization of the paper.
32. Benfield, J., **Taff, B. D.**, Weinzimmer, D., & Newman, P. (2018). Motorized recreation sounds influence nature scene evaluations: The role of attitude moderators. *Frontiers in Psychology*.
<https://doi.org/10.3389/fpsyg.2018.00495>
Role: 40% of authorship, collected data, and contributed to the conceptualization of the paper.
31. *Newton, J. N., Newman, P., **Taff, B. D.**, Shr, Y. H., Monz, C. A., & D'Antonio, A. (2018). If I can find a parking spot: A stated choice approach to Grand Teton National Park visitors' transportation preferences. *Journal of Outdoor Recreation and Tourism*. <https://doi.org/10.1016/j.jort.2018.04.001>
Role: 20% of authorship, contributed to the conceptualization of the paper, and contributed to data analysis; co-PI on project.
30. Mueller, J. T., Graefe, A., **Taff, B. D.**, & Wimpey, J. (2018). Small-Scale Race Events in Natural Areas: Participants' Attitudes, Beliefs, and Global Perceptions of Leave No Trace Ethics. *Journal of Outdoor Recreation and Tourism*, 23, 8 - 15.
Role: 40% of authorship, contributed to the conceptualization of the paper; co-PI on project.
29. Benfield, J., Nutt, R., **Taff, B. D.**, Miller, Z., *Costigan, H., & Newman, P. (2018). A laboratory study of the psychological impact of light pollution in national parks. *Journal of Environmental Psychology*, 57, 67 - 72.
Role: 20% of authorship, contributed to the conceptualization of the paper; co-PI on project.
28. Miller, Z.D., **Taff, B. D.**, & Newman, P. (2018). Visitor experiences of wilderness soundscapes in Denali National Park and Preserve. *International Journal of Wilderness*, 24(2), 32 - 43.
Role: 20% of authorship, collected data, analyzed data, and contributed to the conceptualization of the paper.

27. *Blenderman, A., **Taff, B. D.**, Wimpey, J., Marion, J., & *Schwartz, F. (2018). Understanding and Mitigating Wilderness Therapy Impacts: The Grand Staircase-Escalante National Monument Case Study. *International Journal of Wilderness*, 24(2), 18 - 29.
Role: 40% of authorship, contributed to the conceptualization of the paper; PI on project.
26. Davis, K. D., Dattilo, J., **Taff, B. D.**, & Moeller, J. (2018). Effects of deployment on military couples' leisure and relationship. *Family Relations*. <https://doi.org/10.1111/fare.12321>
Role: 35% of authorship, contributed to the conceptualization of the paper, and contributed to data analysis; PI on project.
25. *Schwartz, F., **Taff, B. D.**, Lawhon, B., & VanderWoude, D. (2018). Mitigating undesignated trail use: The efficacy of messaging and direct site management actions in an urban-proximate open space context. *Environmental Management*, 62(3), 458 - 473. <https://doi.org/10.1007/s00267-018-1054-1>
Role: 40% of authorship, contributed to the conceptualization of the paper; PI on project.
24. Kidd, A., D'Antonio, A., Monz, C., Heaslip, K., **Taff, B. D.**, & Newman, P. (2018) GPS-based classification of visitors' vehicular behavior in a protected area setting. Submitted to *Journal of Park and Recreation Administration*, 36(1), 69 - 89.
Role: 10% of authorship, contributed to the conceptualization of the paper; co-PI on project.
23. *Schwartz, F., **Taff, B. D.**, Lawhon, B., Hodge, C., Newman, P., & Will, E. (2018). Will they leave what they find? The efficacy of a Leave No Trace education program for youth. *Applied Environmental Education & Communication*, 1 -11. <https://doi.org/10.1080/1533015X.2017.1411217>.
Role: 40% of authorship, contributed to the conceptualization of the paper; PI on project.
22. *Newton, J. N., Newman, P., **Taff, B. D.**, D'Antonio, A., & Monz, C. A. (2017). Spatial temporal dynamics of vehicle stopping behavior along a rustic park road. *Applied Geography*, 88, 94-103.
Role: 20% of authorship, contributed to the conceptualization of the paper, and contributed to data analysis; co-PI on project.
21. **Taff, B. D.**, *Costigan, H., Newman, P., Mowen, A., Newman, S. B., & Smyth, J. (2017). Civil War buff, to just buff: Examining communication strategies to influence physical activity behaviors in Gettysburg National Military Park. *Recreation, Parks, and Tourism in Public Health*, 1, 81-102.
Role: 80% of authorship, contributed to the conceptualization of the paper; PI on project.
20. Francis, C., Levenhagen, M., Newman, P., **Taff, B. D.**, White, C., Monz, C. A., Petrelli, A., *Abbott, L., *Newton, J. N., Burson, S., Cooper, C., Fristrup, K., McClure, C., Mennitt, D., Giamellaro, M., & Barber, J. (2017). Acoustic environments matter: Synergistic benefits to humans and ecological communities. *Journal of Environmental Management*, 203, 245-254.
Role: 10% of authorship, contributed to the conceptualization of the paper; co-PI on Penn State portion of research project.
19. Lawhon, B., **Taff, B. D.**, Newman, P., Vagias, W. M., & *Newton, J. N. (2017). Understanding and influencing state park visitors' Leave No Trace behavioral intent. *Journal of Interpretation Research*, 22(1), 53-74.
Role: 40% of authorship, contributed to the conceptualization of the paper, and contributed to data analysis.
18. **Taff, B. D.**, Hodge, C., Layland, E., *Costigan, H., & **Gorske, J. (2017). Music at the monument: Research informing a Healthy Parks Healthy People Event. *The George Wright Forum*, 33(1), 73-85.
Role: 70% of authorship, contributed to the conceptualization of the paper, assisted with data collection, and contributed to data analysis; PI on project.

17. *Schwartz, F., **Taff, B. D.**, Pettebone, D., & Lawhon, B. (2016). Boulderers' attitudes and perceptions of Leave No Trace in Rocky Mountain National Park. *International Journal of Wilderness*, 22(3), 25–32.
Role: 40% of authorship, contributed to the conceptualization of the paper, and contributed to data analysis; PI on project.
16. Xu, X., Yang, R., Newman, P., & **Taff, B. D.** (2016). Literature review of the soundscape of national parks. *Chinese Landscape Architecture*, 32(7), 25–30.
Role: 15% of authorship and contributed to the conceptualization of the paper; co-PI on project.
15. *Santucci, V. L., Newman, P., & **Taff, B. D.** (2016). Toward a conceptual framework for assessing the human dimensions of paleontological resources. *Fossil Record 5. New Mexico Museum of Natural History and Science Bulletin*, 74, 239–248.
Role: 15% of authorship and contributed to the conceptualization of the paper.
14. *Abbott, L. A., **Taff, B. D.**, Newman, P., Benfield, J. A., & Mowen, A. J. (2016). Influence of natural sounds on restoration. *Journal of Park and Recreation Administration*, 34(3), 5–15.
Role: 25% of authorship, contributed to the conceptualization of the paper, and contributed to data analysis; co-PI on project.
13. **Taff, B. D.**, Dattilo, J., Davis, K. D., & Moeller, J. D. (2016). Leisure perceptions of OEF/OIF combat veterans. *Journal of Leisure Research*, 48(4), 265–284.
Role: 50% of authorship, contributed to the conceptualization of the paper, assisted with data collection, and contributed to data analysis; PI on project.
12. **Taff, B. D.**, Dvorak, R., Dawson, C. P., McCool, S. F., & Appel, P. A. (2015). Wilderness in higher education: Considerations for educating professionals for the next 50 years. *Journal of Outdoor Recreation, Education, and Leadership*, 8(1), 3–9.
Role: 75% of authorship and contributed to the conceptualization of the paper.
11. **Taff, B. D.**, Jones, M., Bruyere, B., Newman, P., Barborak, J., Manfredi, M. J., & Finchum, R. (2015). The role of universities in protected area management: Considerations for the future. *The George Wright Forum* 32(3), 308–316.
Role: 50% of authorship, contributed to the conceptualization of the paper, assisted with data collection, and contributed to data analysis.
10. **Taff, B. D.**, Weinzimmer, D., & Newman, P. (2015). Mountaineers' wilderness experience in Denali National Park and Preserve. *International Journal of Wilderness*, 21(2), 7–15.
Role: 75% of authorship, contributed to the conceptualization of the paper, and conducted all data analysis.
9. **Taff, B. D.**, Newman, P., Vagias, W. M., & Lawhon, B. (2014). Comparing day-users' and overnight visitors' attitudes concerning Leave No Trace. *Journal of Outdoor Recreation, Education, and Leadership*, 6(2), 133–146.
Role: 70% of authorship, conceptualized the paper, and conducted all data analysis.
8. Benfield, J. A., **Taff, B. D.**, Newman, P., & Smyth, J. (2014). Natural sound facilitates mood recovery from stress. *Ecopsychology* 6(3), 183–188.
Role: 30% of authorship and contributed to the conceptualization of the paper.
7. Weinzimmer, D., Newman, P., **Taff, B. D.**, Benfield, J., Lynch, E., & Bell, P. (2014). Human responses to simulated motorized noise in national parks. *Leisure Sciences*, 36(3), 251–267.

Role: 20% of authorship, contributed to the conceptualization of the paper, assisted with data collection, and contributed to data analysis.

6. Benfield, J. A., Nurse, G. A., Jakubowski, R., Gibson, A., **Taff, B. D.**, Newman, P., & Bell, P. A. (2014). Testing noise in the field: A brief measure of individual noise sensitivity. *Environment and Behavior*, 46(3), 353–372.
Role: 10% of authorship, contributed to the conceptualization of the paper, assisted with data collection, and contributed to data analysis.
5. **Taff, B. D.**, Newman, P., Lawson, S. R., Marin, L. D., Gibson, A. W., Archie, T., & Bright, A. (2013). The role of messaging and acceptability of military aircraft sounds in Sequoia National Park. *Applied Acoustics*, 84, 122–128.
Role: Role: 70% of authorship, contributed to the conceptualization of the paper, and conducted all data analysis.
4. D'Antonio, A., Monz, C., Lawson, S., Newman, P., & **Taff, B. D.** (2013). Enhancing the utility of visitor impact assessment in parks and protected areas: A combined social-ecological approach. *Environmental Management*, 124, 72–81.
Role: 10% of authorship, contributed to the conceptualization of the paper, assisted with data collection, and contributed to data analysis.
3. Lawhon, B., Newman, P., **Taff, B. D.**, Vaske, J. J., Vagias, W. M., Bright, A., Lawson, S. R., & Monz, C. (2013). Factors influencing behavioral intentions for Leave No Trace behavior in Rocky Mountain National Park. *Journal of Interpretation Research*, 18(1), 24–38.
Role: 20% of authorship, contributed to the conceptualization of the paper, conducted all data collection, and contributed to data analysis.
2. **Taff, B. D.**, Newman, P., Pettebone, D., White, D. D., Lawson, S. R., Monz, C., & Vagias, W. M. (2013). Dimensions of alternative transportation experience in Yosemite and Rocky Mountain National Parks. *Journal of Transport Geography*, 30, 37–46.
Role: 70% of authorship, contributed to the conceptualization of the paper, and conducted all data analysis.
1. D'Antonio, A., Monz, C., Newman, P., Lawson, S., & **Taff, B. D.** (2012). The effects of local ecological knowledge, minimum-impact knowledge, and prior experience on visitor perceptions of the ecological impacts of backcountry recreation. *Environmental Management*, 50(4), 542–554.
Role: 10% of authorship, contributed to the conceptualization of the paper, assisted with data collection, and contributed to data analysis.

Refereed Conference Proceedings:

2. Newman, P., **Taff, B. D.**, Weinzimmer, D., Lawson, S., Trevino, K., Frstrup, K., & McKenna, M. (2013). Monitoring and managing anthropogenic noise in national parks: Lessons learned from field and laboratory studies. In *Proceedings: Inter-noise: 42nd International Congress and Exposition on Noise Control Engineering* (pp. 6001–6008). Innsbruck, Austria: Ingenta Connect.
Role: 70% of authorship and contributed to the conceptualization of the paper.
1. **Taff, B. D.**, Newman, P., Bright, A., & Vagias, W. (2011). Day-user beliefs regarding Leave No Trace in Rocky Mountain National Park. *Journal of Outdoor Recreation, Education and Leadership*, 3(2), 112 – 115. Proceedings: Association of Outdoor Recreation and Education Conference at Keystone, CO.
Role: 80% of authorship, contributed to the conceptualization of the paper.

Book Chapters/Contributions:

6. Bose, M., Nagle, L., Benfield, J., *Costigan, H., Wimpey, J., & **Taff, B. D.** (In Print). Can signage influence healthy behavior? The case of Catoctin Mountain National Park. In J. Thompson & A. Housel (Eds) *America's Largest Classroom: What We Learn from Our National Parks*. UC Berkley: University of California Press.
Role: 50% of authorship, contributed to the conceptualization of the chapter, assisted with data collection, and contributed to data analysis; PI on project.
5. Azara, I., Michopoulou, E., Niccolini, F., **Taff, B. D.**, & Clarke, A. (Eds) (2018). *Tourism, Health, Wellbeing, and Protected Areas*. United Kingdom: CABI.
Role: Editor, contributor to the Introduction, recruited authors, reviewed submissions and worked with authors and publisher on revisions; co-author on included chapter by Benfield, J. et al.
4. **Taff, B. D.**, Benfield, J. A., & Newman, P. (2016). Promoting appropriate national parks for our service members: A call for new research. In D. Dustin, K. Bricker, S. Negley, M. Brownlee, K. Schwab, & N. Lundberg (Eds), *This land is your land: Toward a better understanding of nature's resiliency-building and restorative power for armed forces personnel, veterans, and their families* (pp. 161-169). Urbana, IL: Sagamore Publishing.
Role: 80% of authorship and conceptualized the chapter.
3. **Taff, B. D.**, & Newman, P. (2014). Dimensions of alternative transportation experience in Yosemite and Rocky Mountain National Parks. In R. Manning, S. Lawson, P. Newman, J. Hallo, & C. Monz (Eds), *Sustainable transportation in the national parks: From Acadia to Zion* (pp. 90-104). Lebanon, NH: University Press of New England.
Role: 80% of authorship and conceptualized the chapter.
2. D'Antonio, A., Monz, C., Lawson, S., Newman, P., & **Taff, B. D.** (2014). Enhancing the utility of visitor impact assessment in parks and protected areas: A combined social-ecological approach. In R. Manning, S. Lawson, P. Newman, J. Hallo, & C. Monz (Eds), *Sustainable transportation in the national parks: From Acadia to Zion* (pp. 42-53). Lebanon, NH: University Press of New England.
Role: 10% of authorship, contributed to the conceptualization of the paper, assisted with data collection, and contributed to data analysis.
1. **Taff, B. D.** (2014). Backcountry spinach and black bean quesadillas recipe. In V. Brunell & R. Swain (Eds), *Wilderness Ranger Cookbook, 2nd Ed* (pp. 19). Guilford, CT: Falcon Guides, Globe Pequot Press.
Role: 100% of authorship.

Management Reports:

17. D'Antonio, A. D., **Taff, B. D.**, Monz, C., Newman, P., Baker, J., *Rice, W., & Miller, Z. (2018). Leigh and String Lakes Visitor Use Study at Grand Teton National Park. Natural Resource Report submitted to the National Park Service.
Role: 30% of authorship, contributed to the conceptualization of project and the report, assisted with data collection, and contributed to data analysis; Co-PI on project.
16. **Taff, B. D.**, Wimpey, J., Marion, J., & *Schwartz, F. (2018). Collaborative Research to Monitor and Record Backcountry Use Impacts at Grand Staircase-Escalante National Monument. Final Report prepared for the Bureau of Land Management.
Role: 70% of authorship, contributed to the conceptualization of the report, assisted with data collection, and contributed to data analysis; PI on project.
15. Lawhon, B., **Taff, B. D.**, *Schwartz, F., Miller, Z. D., & Newman, P. (2018). *Exploring Visitor Attitudes, Values, and Behaviors Regarding Waste in National Parks*. Final Report prepared for Subaru of America and

the National Park Service. Leave No Trace Center for Outdoor Ethics and Pennsylvania State University.

Role: 50% of authorship, contributed to the conceptualization of the report, assisted with data collection, and contributed to data analysis; PI on project.

14. *Blenderman, A., **Taff, B. D.**, Schwartz, F., & Lawhon, B. (2018). *Dog Owners' Perceptions and Behaviors Related to the Disposal of Pet Waste in City of Boulder Open Space and Mountain Parks*. Final Report prepared for City of Boulder, Colorado, Open Space and Mountain Parks by Pennsylvania State University and the Leave No Trace Center for Outdoor Ethics.
Role: 30% of authorship, contributed to the conceptualization of the report, assisted with data collection, and contributed to data analysis; PI on project.
13. Graefe, A., **Taff, B. D.**, Mueller, T. J., Wimpey, J. (2017). Development of Science Based Recreation Management Guidelines for Pennsylvania's State Forests: SAA/CAA Impact Analysis Final Report. Final Report prepared for Pennsylvania's Division of Conservation and Natural Resources.
Role: 35% of authorship, contributed to the conceptualization of the report, assisted with data collection, and contributed to data analysis; co-PI on project.
12. **Gorske, J., & **Taff, B. D.** (2017). Zero Landfill Initiative manager's perspectives study: Final report. Department of Recreation, Park and Tourism Management, College of Health and Human Development, Penn State University, University Park, PA.
Role: 10% of authorship, contributed to the conceptualization of the research and report; Faculty advisor on project.
11. **Taff, B. D.**, *Schwartz, F., & Lawhon, B. (2017). Examining promoting environmental awareness in kids (PEAK)-based education to influence Leave No Trace behaviors in youth. Report submitted to The McConnell Foundation.
Role: 50% of authorship, contributed to the conceptualization of the report, assisted with data collection, and contributed to data analysis; PI on project.
10. **Taff, B. D.**, & *Schwartz, F. (2016). Boulderers' perceptions of Leave No Trace in Rocky Mountain National Park: Improving resource conditions and visitor experiences. Report submitted to Natural Resource Report NPS/RMNP/NRR.
Role: 50% of authorship, contributed to the conceptualization of the report, assisted with data collection, and contributed to data analysis; PI on project.
9. Lawhon, B., **Taff, B. D.**, & *Schwartz, F. (2016). Undesignated trail management and messaging study. Report submitted to the City of Boulder, CO Open Space and Mountain Parks.
Role: 50% of authorship, contributed to the conceptualization of the report, assisted with data collection, and contributed to data analysis; co-PI on project.
8. **Taff, B. D.**, *Abbott, L., & Newman, P. (2016). Exploring vertical wilderness in the acoustic environment. Report submitted to AMK Ranch and Research Station – National Park Service and University of Wyoming.
Role: 50% of authorship, contributed to the conceptualization of the report, assisted with data collection, and contributed to data analysis; PI on project.
7. Newman, P., *Newton, J., **Taff, B. D.**, & Shr, Y. H. (2015). Visitor preference study in the Moose-Wilson Corridor of Grand Teton National Park. Report submitted to National Park Service, Fort Collins, Colorado.
Role: 30% of authorship, contributed to the conceptualization of the report, and contributed to data analysis; co-PI on project.

6. Newman, P., **Taff, B. D.**, *Newton, J., & *Abbott, L. (2015). Informing visitor use management strategies for the Moose-Wilson Corridor, Grand Teton National Park. Report submitted to Pennsylvania State University, Protected Areas Research Cooperative, University Park, PA.
Role: 30% of authorship, contributed to the conceptualization of the report, assisted with data collection, and contributed to data analysis; co-PI on project.
5. Newman, P., **Taff, B. D.**, Weinzimmer, D., *Newton, J., & Leslie, C. (2014). Soundscape social science survey for air tour management and soundscape planning at Bandelier National Monument. Report submitted to National Park Service, Colorado State University, Fort Collins, CO & Pennsylvania State University, University Park, PA.
Role: 30% of authorship, contributed to the conceptualization of the report, assisted with data collection, and contributed to data analysis.
4. Newman, P., **Taff, B. D.**, Weinzimmer, D., Leslie, C., Gibson, A., *Newton, J., & *Abbott, L. (2014). Social normative study of backcountry visitor's acoustic expectations and experiences in Denali National Park and Preserve. Report submitted to National Park Service, Colorado State University, Fort Collins, CO & Pennsylvania State University, University Park, PA.
Role: 30% of authorship, contributed to the conceptualization of the report, assisted with data collection, and contributed to data analysis; co-PI on project.
3. Newman, P., Lawhon, B., & **Taff, B. D.** (2013). Visitor attitudes, beliefs and behaviors concerning Leave No Trace outdoor ethics in Wyoming State Parks, Trails and Historic Sites. Report submitted to Wyoming State Parks, Trails and Historic Sites, Colorado State University, Fort Collins, CO.
Role: 30% of authorship, contributed to the conceptualization of the report, assisted with data collection, and contributed to data analysis.
2. Newman, P., Lawson, S., **Taff, B. D.**, Gibson, A., Marin, L., Kiser, B., Kaliski, K., & Talbot, E. (2012). Research to support development of visitor-based soundscape indicators and standards of quality at YOSE and SEKI. Report submitted to National Park Service, Colorado State University, Fort Collins, CO & Resource Systems Group, White River Junction, VT.
Role: 40% of authorship, contributed to the conceptualization of the report, assisted with data collection, and contributed to data analysis.
1. Newman, P., Lawson, S., Monz, C., Pettebone, D., Gibson, A., **Taff, B. D.**, & D'Antonio, A. (2010). Modeling the effects of alternative transportation on VERP in Rocky Mountain National Park. Report submitted to National Park Service, Colorado State University, Fort Collins, CO & Resource Systems Group, White River Junction, VT.
Role: 25% of authorship, contributed to the conceptualization of the report, assisted with data collection, and contributed to data analysis.