

## **PETER NEWMAN, PHD**

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### **PROFESSIONAL EXPERIENCE**

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#### **Department Head**

7/1/13-present

Department of Recreation Park and Tourism Management, Penn State University

Lead the Department of Recreation Park and Tourism Management (RPTM) in the College of Health and Human Development. The Department has a strong and growing emphasis on human health and well-being, sustainability and international aspects of tourism, parks and protected area management. The department's vision is to improve health and human well being by engaging people in parks, tourism and other leisure activities.

Duties associated with administering the Department include:

- Personnel management including: human resources, advancement, encouragement, workload assignment, tenure/promotion evaluations, annual evaluations, post tenure evaluations of 11 tenure track faculty, 8 non-tenure track faculty, 5 staff members
- Leadership in departmental strategic planning
- Administration and execution of departmental budget and development revenue generation strategies
- Oversee and develop research and outreach programs, within the department
- Guide the development of academic curricula
- Provide leadership to ensure high quality undergraduate and graduate teaching, advising and student engagement of 330 undergraduates, 27 graduates and over 160 RPTM and Sustainability Minors.
- Facilitate achievement of University diversity, inclusion and equal opportunity goals
- Facilitate achievement of Departmental, College and University strategic goals
- Lead departmental fund raising in concert with College development leaders
- Serve as the faculty representative to the Penn State Women's Soccer Team (National Champions 2015)

#### **Professor of Recreation Park and Tourism Management, Penn State University**

7/1/13-present

Lead a team that includes funded MS and PhD and undergraduate students and a Post-Doctoral Research Associate who design and execute studies concerning visitor capacity and visitor management in parks and protected areas globally. Studies show how the distribution of the right number of people to the right place at the right time can help balance use and preservation in parks and protected areas. We currently have on-going studies in: Denali, Grand Canyon, Grand Teton and Rocky Mountain, National Parks and a strong partnership and research program with the NPS Natural Sounds and Night Sky Division.

Research Topics Include:

- Visitor Management in Parks and Protected Areas
- Soundscape/Acoustic Management in Parks and Protected Areas
- Transportation Management and Planning
- Efficacy and communication of "Leave No Trace" principles
- Protection of Night Skies and Natural Darkness

**Associate Dean of Academic Affairs, WCNR, Colorado State University** 1/09 – 6/13  
 Supported the Dean of the Warner College of Natural Resources, provided data driven input on College-wide policies and decisions. Oversaw WCNR academic programs by monitoring indicators of success of teaching and outreach to students and development programs (teaching-advising) for faculty. Collaborated with department heads and faculty. Responsible for recruitment and retention of undergraduate students. Served on University-wide committees on academic quality, environmental sustainability, University admissions and enrollment, and Continuing Education. Reported to the Vice Provost as a member of the Council of Academic Deans.  
 (100% Administrative Assignment, with ability to “release” time for research)

**Associate Professor of Protected Areas Management, Colorado State University** 6/08-6/13  
 Faculty member in the Warner College of Natural Resources in the Department of Human Dimensions of Natural Resources. Conduct research on the human dimensions of resource management and social carrying capacity in national parks, wilderness and related areas. Taught: Principles of Protected Areas Management, Social Aspects of Natural Resource Management and the Fundamentals of Protected Areas Management.  
 (50% Teaching 40% Research, 10% Service)

**Assistant Professor of Protected Areas Management, Colorado State University** 8/02–6/08  
 (50% Teaching 40% Research, 10% Service)

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**EDUCATION**

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**Ph.D. Natural Resources, University of Vermont** 9/99-7/02

**M.S. Forest Resource Management, SUNY ESF** 9/96-5/98  
*SUNY College of Environmental Science and Forestry, Syracuse, NY*

**B.A. Political Science, University of Rochester** 9/90-5/94

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**PROFESSIONAL AFFILIATIONS**

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**IUCN World Commission on Protected Areas** 2011-present  
 Elected Member

**Center for Protected Areas Management and Training** 2002-present  
 Colorado State University, Steering Committee/founding member/Faculty Affiliate

**Congressional Black Caucus Institute 21<sup>st</sup> Century Council** 2008-2015  
 Appointed Member

**Leave No Trace: Center for Outdoor Ethics** 2008-2014  
 Board Member and Chair of Education Committee

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**AWARDS**

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**Selected as “Most Valuable Professor” Penn State University Volleyball Program** 2019

**Excellence in Teaching Award, Health and Human Development, Penn State University** 2018

**Nominated for Atherton, Eisenhower and Alumni Teaching Fellow, Penn State University** 2018

**Leave No Trace Center for Outdoor Ethics Board of Directors Leadership Award** 2014

**George Wright Society Social Science Achievement Award** 2013

Received this National Award at the George Wright Society Conference

**Cooperative Ecosystem Studies Unit (CESU) National Award Winner** 2012  
Awarded for development of research program and partnership with the NPS Natural Sounds and Night Sky Division

**Fulbright Award/ Senior Scholar/Specialist:** Chiapas, Mexico Summer 2011  
Developed MS level curricula on Conservation Leadership with Mexican counter-parts at ECOSUR in San Cristobal de Las Casas, Chiapas, Mexico.

**“Favorite Teacher Award” WCNR, Colorado State University** 2008

**“Most Valuable Professor” Colorado State University, Women’s Volleyball Team** 2006

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## **CURRICULAR INNOVATION**

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**Developed MS Degree: Conservation Leadership through Learning Program (CLTL):  
An Interdisciplinary Masters of Sustainable Development Practice**  
(With Dr. Mike Manfredo, Ryan Finchum & Dr. Josh Goldstein)

Over a three-year period conceptualized and introduced a new educational model for developing the next generation of conservation leaders. During this period, identified key institutional partners, developed the curriculum, gained University approval, worked out the logistics of a significant field component in Mexico, advertised the program, secured new campus resources for housing students, and initiated the first program. This program is offered in collaboration with Ecosur (El Colegio de la Frontera Sur) University in Mexico and provides a dual MS degree. CLP integrates traditional classroom instruction with problem-based learning models and field study. A faculty team from multiple Departments and Colleges, applying a concept we introduced and termed “synergistic learning”, delivers the interdisciplinary curriculum. Was awarded a Fulbright Fellowship in the summer of 2011 to help teach first few months of field program in Mexico. The inaugural offering began fall, 2010 with 21 students and graduated 100% of the cohort in May 2012. The program was given the “Excellence and Innovation in Graduate Education Award” from the Western Association of Graduate Schools in 2013. The program is now in cohort 9 in the Warner College of Natural Resources at Colorado State University.

Secured the following scholarships:

- The Congressional Black Caucus Institute, a full scholarship dedicated toward increasing diversity in conservation leadership.
- CONACyT, Mexico’s National Commission for Science and Technology: 5 scholarships for Mexican nationals and 5 US students (with El Colegio de la Frontera Sur, San Cristobal, Chiapas, Mexico).

**Concentration Leader: Protected Areas Management,** 2004-08

Responsible for revamping protected areas management curriculum. Set up multi agency advisory group and held focus groups to ensure that concentration was meeting agencies needs and addressing current issues. Redesigned RR 231 (Principles of Protected Areas Management) and RR 331 (Fundamentals of Protected Areas Management). Created a service-learning based course and have generated over 1000 hours of community service work for WCNR’s Environmental Learning Center (ELC) and raised over ~\$5,000 in grants and material donation for several projects that have helped to protect and beautify the ELC.

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**RESEARCH EXPERIENCE**

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**Principal Investigator, Co-Director, Park Studies Unit, PSU** 2002-present  
Protected Areas Research Collaborative (PARC)

Lead a team of researchers that includes funded MS and PhD and undergraduate students and a Post-Doctoral Research Associate who design and execute studies concerning visitor capacity and visitor management in parks and protected areas globally. We have secured over 5 million dollars in research from the National Science Foundation, National Park Service, US Forest Service and other agencies working in protected areas.

Developed a strategic research partnership with the U.S. National Park Service, Natural Sounds Program. Have graduated close to 20 MS and PhD students from this program, resulting from our research (CESU) partnerships with the U.S. National Park Service.

Raised funding to develop an on campus research environmental psychology lab to better understand psycho-acoustics (how sound affect people) using dose-response techniques and virtual reality (VR) technologies.

This partnership received the *CESU Network National Award for 2012*. All of our graduates are employed and nearly all are employed as University faculty, land management agencies, consulting firms and NGOs.

**Examples of Recent projects include:**

<b>Year(s)</b>		<b>Amount</b>
2019-2021	<b>Examining the Efficacy of Indirect Management Messaging on Frontcountry and Campground Visitor Behaviors Regarding Trash and Recycling in National Parks</b> Funding: Leave No Trace Center for Outdoor Ethics PI: Taff, B. D. Co-PI: Newman, P.	\$90,000
2019-2020	<b>Grand Canyon National Park Visitor Use Management Data Needs Assessment</b> Funding: Department of Interior, National Park Service PI: Taff, B. D. Co-PI: Newman, P.	\$32,000
2018-2019	<b>Healthy Parks, Healthy People? Assessing the Relevance and Impact of Parks on Human Health, Well-being and Environmental Sustainability</b> Funding: Penn State Global Programs and Monash University PI: Taff, B. D. Co-PI's: Peel, V., Hutchins, B., Newman, P., & Klemm, C.	\$48,000
2016-2020	<b>Firescapes in the mid-Atlantic: Mismatches between social perceptions and prescribed fire use</b> Principal Investigator: Erika Smithwick Co-PIs-Alan Taylor, Katherine Zipp, James Shortle and Margot Kaye, Peter Newman Source of Funding: Joint Fire Sciences Program	\$326,646
2018-2019	<b>Development of Visitor-based Acoustical and Night Sky Indicators and Standards (Death Valley National Park Quiet Pavement Study)</b> Funding: Department of Interior, National Park Service PI: Newman, P. Co-PI: Taff, B. D.	\$48,000

2018-2019	<p><b>Exploring Visitor, NPS Staff, and Concession Staff Attitudes and Behaviors Regarding Waste in National Parks</b></p> <p>Funding: Leave No Trace Center for Outdoor Ethics  PI: Taff, B. D.  Co-PI's: Miller, Z., Schwartz, F., &amp; Newman, P.</p>	\$82,000
2017-2019	<p><b>Leigh and String Lakes visitor use study at Grand Teton National Park</b></p> <p>Funding: Department of Interior, National Park Service  PI: Taff, B. D.  Co-PI: Newman, P.</p>	\$191,890
2016-2019	<p><b>Denali National Park: Frontcountry acoustics</b></p> <p>Funding: Department of Interior, National Park Service  PI: Newman, P.  Co-PI's: Taff, B. D. &amp; Sparrow, V</p>	\$87,706
2015-2018	<p><b>National Science Foundation Soundscapes as coupled systems of biodiversity and human experience</b></p> <p>Funding: National Science Foundation  PI: Dr. Jessie Bareber, Boise State University  Co-PI: Peter Newman</p>	\$640,000
2016-2018	<p><b>Use and benefits of parks: An exploratory study with park users in Shenzhen, China</b></p> <p>Funding: Jinan University  PI: Taff, B. D.  Co-PI's: Newman, P., &amp; Pan, B.</p>	\$50,505
2012-2014	<p><b>Department of Interior, NPS, Denali National Park</b>  Research to Support Development of Visitor-based Soundscape Indicators and Standards of Quality for Denali National Park</p> <p>Funding: Department of Interior, National Park Service  PI: Newman, P.  Co-PI's: Taff, B. D</p>	\$95,773
2014- 2017	<p><b>Department of Interior, NPS, Grand Teton National Park</b>  Research to Support Development of Visitor-based Indicators and Standards of Quality for Moose Wilson Road Corridor and Sting and Leigh Lakes.</p> <p>Funding: Department of Interior, National Park Service  PI: Newman, P.  Co-PI's: Taff, B. D.</p>	\$116,000
2007-2010	<p><b>Department of Interior, NPS, Rocky Mountain National Park</b>  Development and application of Wilderness Character Monitoring Program for Rocky Mountain National Park Wilderness Office</p> <p>Funding: Department of Interior, National Park Service  PI: Newman, P.  Co-PI's: Taff, B. D.</p>	\$160,000

### **Journal Articles Currently in Review**

8. Levanhagen, M.\*, Miller, Z.D., Petrelli, A.R., Ferguson, L.A., Shr, Y., Taff, B.D., Fristrup, K., McClure, C.J.W., Burson, S., Newman, P., Newton, J., Francis, C.D., & Barber, J.R. (In Review). Experimental quieting of traffic noise via speed limit reductions benefit people but not songbirds in a protected area. *Nature Sustainability*.
7. Miller, Z.D., Rice, W.L.\*, Newman, P., Taff, B.D., Gottschalk, J.\*, Meyer, C.\*, & Beeco, A. (In Review) Using surface-treatment of pavements to improve visitor experiences: A case study from Death Valley National Park. *Journal of Environmental Management*.
6. Miller, Z. D., Newton, J., Freeman, S.\*, Newman, P., & Taff, B. D. (In Review). Wildlife-friendly lighting influences visitor perceptions, support for management actions, and quality of experience in Grand Teton National Park. *Journal of Environmental Management*.
5. Rice, W. L., Taff, B. D., Newman, P., Zipp, K. Y., & Pan, B. (In Review). Identifying recreational ecosystem service areas of concern in Grand Canyon National Park: A participatory mapping approach. *Ecosystem Services*.
4. Levanhagen, M., Miller, Z.D., Petrelli, A.R., Abbott, L.C., Shr, Y., Taff, B.D., White, C., Fristrup, K., Monz, C., McClure, C.J.W., Newman, P., Francis, C.D., & Barber, J.R. (In Review). Ecosystem services provided by soundscapes link people and wildlife. *People and Nature*.
3. Miller, Z.D., Wu, H., Zipp, K., Dems, C.L.\*, Smithwick, E., Kaye, M., Newman, P., Zhao, A.\*, & Taylor, A. (In Review). Hunter and non-hunter perceptions of risks, benefits, and likelihood of outcomes of prescribed fire in the mid-Atlantic region. *Society and Natural Resources*.
2. Rice, W. L.\*, Lacey, G., Peel, V., Pan, B., Klemm, C., Miller, Z. D., Newman, P., Hutchins, B., & Taff, B. D. (In Review). Examining Health Promotion in Parks: A cross-national inquiry of healthy parks healthy people programs. *Recreation, Parks, and Tourism in Public Health*.
1. D'Antonio, A., Taff, B. D., Baker, J.\*, Rice, W. L.\*, Newton, J., Miller, Z. D., Newman, P., Monz, C., & Freeman, S.\* (In Progress). Integrating visitor survey data with multiple geospatial methodologies to understand the social-ecological system of String and Leigh Lakes in Grand Teton National Park, WY. *Journal of Park and Recreation Administration*.

### **Journal Articles in Progress**

10. Freeman, S.\*, Benfield, J., Miller, Z.D., Taff, B.D., & Newman, P. (In Progress). Wildlife approach acceptability factors. *Human Dimensions of Wildlife*.
9. Zipp, K., Zhao, A., Taylor, A., Miller, Z.D., Kaye, M., Newman, P., & Wu, H. (In Progress). An ecological model of recreation, housing, and carbon benefits of prescribed fire. *Journal of Environmental Management*.
8. Zipp, K., Shr, Y., Zhao, A., Miller, Z.D., Smithwick, E.A.H., Kaye, M., Taylor, A., Wu, H., & Newman, P. (In Progress). Feeling the burn: The optimal timing of prescribed fires for recreation benefits. *Journal of Environmental Economics and Management*.
7. Smithwick, E.A.H., Zipp, K., Wu, H., Kaye, M., Taylor, A., Miller, Z.D., Shr, Y.H., Zhao, A., Dems, C. & Newman, P. (In Progress). Burning mismatches in mid-Atlantic fireescapes. *Frontiers in Ecology and Environment*.

6. Rice, W. L.\*, Drage, E.\*, Miller, Z.D., Taff, B. D. & Newman, P. (In Progress). A participatory GIS approach to mapping outdoor recreation benefits of backcountry users in Grand Teton National Park. *International Journal of Wilderness*.
5. Rice, W. L.\*, Zipp, K. Y., Newman, P., Taff, B. D., Pan, B., & Miller, Z. D. (In Progress). Support for reducing road noise among national park visitors. *Journal of Transport Geography*
4. Evensen, D., Ferguson, M., Ferguson, L. A., Miller, Z. D., Newman, P., Graefe, A., & Mowen, A. (In Progress). Politics dominates in explaining opposition towards wind energy and shale gas, but to varying extents cross-nationally. *Global Environmental Politics*.
3. Ferguson, L.A.\*, Taff, B.D., Betchkal, D., McKenna, M., Keller, R., Miller, Z.D., & Newman, P. (In Progress). Improving methods for determining thresholds for soundscape quality. *Journal of Environmental Management*.
2. Freeman, S.\*, Miller, Z.D., Lawhon, J.B., Newman, P. & Taff, B.D. (In Progress). Communication as a strategy for managing human-wildlife conflict in parks and protected areas. *Human Dimensions of Wildlife: An International Journal*.
1. Ferraro, D.\*, Miller, Z.D., Francis, C., Taff, B.D., Barber, J., & Newman, P. (In Progress). The Phantom Chorus: An experimental approach to understanding the relationship between birdsong, perceived biodiversity, and perceived restoration. *Ecology and Society*.

**Peer Reviewed Journal Articles Published** \*Graduate Student \*\*Undergraduate Student

86. \*Rice, W.L., Taff, B.D., Newman, P., Zipp, K., & Miller, Z.D. (In Press). Beyond benefits: Toward a recreational ecosystem services management framework. *Landscape Research*
85. \*Rice, W. L., \*\*Hamilton, G. C., & Newman, P. (In press 2020). Pungent parks: smell's growing relevance in park tourism. *Journal of Tourism Futures*. <https://doi.org/10.1108/JTF-05-2019-0045>
84. \*Rice, W. L., Taff, B. D., Miller, Z. D., Newman, P., Zipp, K. Y., Pan, B., \*Newton, J. N., & D'Antonio, A. (In Press 2020). Connecting motivations to outcomes: A study of park visitors' outcome attainment. *Journal of Outdoor Recreation and Tourism*.
83. Lawson, S., & Newman, P. In response to impact of Half Dome cable permitting by Spano et al. (2020) *Wilderness Environmental Medicine*, DOI: <https://doi.org/10.1016/j.wem.2019.11.006>
82. Ferguson, M., Lynch, M, Miller, Z., \*Ferguson, L., & Newman, P. (2020) "What do outdoor recreationists think of fracking? Politics, ideology, and perceptions of shale gas energy development in Pennsylvania State Forests", *Energy Research & Social Science*, 62, 101384,2020
81. \*Rice, W., Park, S., Pan, B., & Newman, P., (2020) "Forecasting campground demand in US national parks" *Annals of Tourism Research*. (75)424-438
80. \*Rice, W. L., Newman, P., Miller, Z. D., & Taff, B. D. (2020). Protected areas and noise abatement: A spatial approach. *Landscape and Urban Planning*. 194, 1–9.
79. Miller, Z. D., \*Ferguson, L. A., Newman, P., Ferguson, M., Tipton, N., Sparrow, V. & Taff, B. D. (2020). Developing visitor thresholds of sound from shale natural gas compressors for motorized and non-motorized recreation users in Pennsylvania State Forests. *Applied Acoustics*, 157(1), [DOI.or/10.1016/j.apacoust.2019.107012](https://doi.org/10.1016/j.apacoust.2019.107012).
78. Miller, Z. D., Lawhon, B., Taff, B. D., \*Schwartz, F., & Newman, P. (2019). Identifying strategies to reduce visitor-generated waste in national parks of the United States: The Zero Landfill Initiative. *Applied Environmental Education & Communication*. DOI: 10.1080/1533015X.2019.1588179

77. Coulson, E. R., Park, L. O., Lawhon, B., Taff, B. D., Vagias, W. M., & Newman, P. (2019). Visitors' attitudes and behavioral intentions towards Leave No Trace on a national forest. *Applied Environmental Education & Communication*. DOI.org/10.1080/1533015X.2019.1617804.
76. \*Rice, W. L., Taff, B. D., Newman, P., Miller, Z. D., D'Antonio, A. L., Baker, J. T., Monz, C., \*Newton, J. N., & Zipp, K. Y. (2019). Grand expectations: Understanding visitor motivations and outcome interference in Grand Teton National Park, Wyoming. *Journal of Park and Recreation Administration* 37(2). DOI: 10.18666/JPra-2019-9283.
75. Miller, Z. D., Taff, B. D., Newman, P., & Lawhon, B. (2019). A proposed research agenda on social media's role in visitor use and experience in parks and protected areas. *Journal of Park and Recreation Administration* 37(3). DOI: 10.18666/JPra-2019-9553.
74. Miller, Z. D., Lawhon, B., Taff, B. D., \*Schwartz, F., & Newman, P. (2019). Identifying strategies to reduce visitor-generated waste in national parks of the United States: The Zero Landfill Initiative. *Applied Environmental Education & Communication*. DOI: 10.1080/1533015X.2019.1588179.
73. \*Romo, A. B., Taff, B. D., Lawhon, B., VanderWoude, D., Newman, P., Graefe, A., & Schwartz, F. (2019). Dog owners' perceptions and behaviors related to the disposal of pet waste in City of Boulder Open Space and Mountain Parks. *Journal of Park and Recreation Administration*. DOI: 10.18666/JPra-2019-9059.
72. Lawhon, B., Taff, B. D., Newman, P., Vagias, W., & Miller, Z. D. (2019). Understanding attitudes and support for Leave No Trace: Informing communication strategies with frontcountry state park visitors. *Journal of Outdoor Recreation, Education, and Leadership*, 11(1), 37–52.
71. Miller, Z. D., Huang, J., Costigan, H., Lou, J., Deng, H., Xu, X., Taff, B. D., Sun, C., Yang, X., Wang, Z-L., Lin, D., Qu, S., Pan, B., Li, G., & Newman, P. (2018). A cross-cultural examination of the noise-sensitivity scale-short form: Measurement invariance testing between US and Chinese samples. *Biomedical and Environmental Sciences*, 31(11), 851–854.
70. Miller, Z. D., \*Rice, W., Taff, B. D., & Newman, P. (2018). Understanding visitor motivations at Jimmy Carter National Historic Site: A principal components approach. *Heritage*, 1, 328-334.
69. 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.
68. \*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.
67. 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*, 9, 495.
66. \*Newton, J. N., Newman, P., Taff, B. D., Shr, Y. H., Monz, C. A., & D'Antonio, A. (In Press). If I can find a parking spot: A stated choice approach to Grand Teton National Park visitors' transportation preferences. Submitted to *Journal of Outdoor Recreation and Tourism*.
65. Backman, C., Vaske, J., Lawhon, B., Vagias, W., Newman, P., Coulson, E., & Taff, B. D. (2018). 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* 36(4), 44 – 57.
64. Benfield, J. A., Nutt, R. J., Taff, B. D., Miller, Z. D., 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. <https://doi.org/10.1016/j.jenvp.2018.06.006>



63. Manning, R. E., Newman, P. B., Barber, J., Monz, C., Hallo, J., & Lawson, S. R. (2018). Principles for Studying and Managing Natural Quiet and Natural Darkness in National Parks and Other Protected Areas. *The George Wright Forum*, 35(3).
62. \*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.
61. Taff, B. D., \*Costigan, H., Newman, P., Mowen, A., Smyth, J. M., & Newman, S. B. (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.
60. \*Newton, J. N., Newman, P., Taff, B. D., D'Antonio, A., & Monz, C. (2017). Spatial temporal dynamics of vehicle stopping behavior along a rustic park road. *Applied Geography*, 88, 94-103.
59. \*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. Submitted to *Journal of Interpretation Research*, Volume 22 (1)
58. Francis, C. D., Newman, P., Taff, B. D., White, C., Monz, C. A., Levenhagen, M., . . . Burson, S. (2017). Acoustic environments matter: Synergistic benefits to humans and ecological communities. *Journal of Environmental Management*, 203, 245-254
57. \*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.
56. \*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.
55. \*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.
54. Monz, C., D'Antonio, A., Lawson, S., Barber, J., & Newman, P. (2016). The ecological implications of visitor transportation in parks and protected areas: Examples from research in US National Parks. *Journal of Transport Geography*, 51, 27-35.
53. Lawson, S.R., Newman, P., Monz, C. (2016). A systems-based approach to address unintended consequences of demand-driven transportation planning in national parks and public lands. *International Journal of Sustainable Transportation*. (11) 2
52. Manning, R., Monz, C., Hallo, J., Lawson, S., & Newman, P. (2015). From conventional to sustainable transportation management in national parks. In *Sustainable Transportation in Natural and Protected Areas* (pp. 215-227). Taylor and Francis Inc.
51. Taff, B. D., Jones, M., Bruyere, B., Newman, P., Barborak, J. R., Manfredo, 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
50. 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.

49. Manning, R., Lawson, S., Newman, P., Hallo, J., Monz, C. (2014) Principles of Sustainable Transportation in the National Parks. *The George Wright Forum*. 31 (3), 342-358
48. Benfield, J.A., Taff, B.D., Newman, P., & Smyth, J. (2014). Natural sound facilitates mood recovery from stress. *Ecopsychology* 6(3), 183 – 188, DOI: 10.1089/eco.2014.0028
47. \*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
46. \*Taff, B. D., Newman, P., Vagias, W. M., Lawhon, B. (2014). Comparing day-users' and overnightvisitors' attitudes concerning Leave No Trace. *Journal of Outdoor Recreation, Education and Leadership*\_6 (2), 133-146
45. \*Gibson, A., Newman, P., Bell, P., Lawson, S.R., (2014). Examining the influence of random photo order on evaluations of crowding in National Parks. *Leisure Sciences* 36 (2), 183-205
44. \*Taff, D., Newman, P., Lawson, S. R., Bright, A., Marin, L., Gibson, A., & Archie, T. (2014). The role of messaging on acceptability of military aircraft sounds in Sequoia National Park. *Applied Acoustics*. (84) 122-128
44. \*Gibson, A. W., Newman, P. B., Lawson, S., Fristrup, K., Benfield, J. A., Bell, P. A., & Nurse, G. A. (2014). Photograph Presentation Order and Range Effects in Visual-Based Outdoor Recreation Research. *Leisure Sciences*, 36(2), 183-205. <https://doi.org/10.1080/01490400.2013.862886>
43. \*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*. (0301-4797), 124, p. 72.
42. \*Pettebone, D., Meldrum, B., \*Leslie, C., Lawson, S., Newman, P., Reigner, N., Gibson, A., (2013). Managing Wilderness Character and Visitor Safety on the Half Dome Cables in Yosemite National Park. *Landscape and Urban Planning*. 118, 1-9
41. \*Lawhon, B., Newman, P., Taff, D., Vaske, J., Vagias, W., Lawson, S., & Monz, C. (2013). Factors Influencing Behavioral Intentions for Leave No Trace Behavior in National Parks. *Journal of Interpretation Research*, 17(3)
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19. \*Park, L., Lawson, S.R., Kaliski, K., Newman, P., Gibson, A. 2010. Modeling and mapping hikers' exposure to transportation noise in Rocky Mountain National Park. *Park Science* 26 (3) pp 59-64
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8. Newman, P., Manning, R., Dennis, D., & McKonley, W. (2005). Informing Carrying Capacity Decision Making in Yosemite National Park, USA Using Stated Choice Modeling. *Journal of Park & Recreation Administration*, 23(1).
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9. Newman, P. Manning, R., Bacon, J., Graefe, A., Kyle, G. 2003. An evaluation of Appalachian Trail hikers knowledge of minimum impact skills and practices. *International Journal of Wilderness*, 9 (2) 34-38
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## **BOOKS**

3. Manning, R.E., Newman, P., Barber, J., Halo, J., Monz, C., Lawson, S.L., (2018). Natural Quiet and Natural Darkness: The New Resources of the National Parks. University Press of New England, (Released: June 5, 2018)
2. Manning, R.E, Lawson, S.R., Newman, P., Monz C., and Halo, J., (2014), Sustainable Transportation in National Parks, from Acadia to Zion. University Press of New England (Released: July, 2014)
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## **BOOK CHAPTERS**

7. Miller, Z.D., Rice, W., Taff, B.D., & Newman, P. (2020). Concepts for understanding the visitor experience in sustainable tourism. In S.F. McCool and K. Bosak (Eds.), A Research Agenda for Sustainable Tourism. Cheltenham, UK: Edward Elgar Publishing.
6. Benfield, J. A., Weinzimmer, D., Taff, B. D., & Newman, P. (2018). Health effects of recreation vehicle noise: Laboratory evidence for mood and heart rate. In I., Azara, E., Michopoulou, F., Niccolini, B. D., Taff, & A., Clarke (Eds) Tourism, Health, Wellbeing, and Protected Areas. United Kingdom: CABI.
5. 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.
4. 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.
3. 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.
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1. Manning, R., S. Lawson, P. Newman, M. Budruk, W. Valliere, D. Laven and J. Bacon and Wang, B. 2004. . Development and Applications for Carrying Capacity Frameworks for Parks and Protected Areas. In: Delfino, C. Camarda, I. Manfredo, M.J., Mulas, F., and Teel, T.L. Global Challenges of Protected Areas Management

## **ESSAYS AND RESEARCH NOTES**

1. Brown, J., Cobb, T., Davis, G., Harmon, D., Mitchell, Newman, P., Ostergen D., Parsons, D.J., Reynolds, J., Smith, R., Tranel, M., Wallace, G.N., Woodley S. 2005. Voices From Durban: Reflections on the 2003 World Parks Congress. The George Wright Forum: 20(4) 8-28

## **RECENT PROJECT REPORTS**

12. Lawhon, B., Taff, B. D., \*Schwartz, F., Miller, Z. D., & Newman, P. (2019). Exploring Campground 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.
11. 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.

10. 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.
9. \*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.
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.
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.
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.
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.
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.
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.
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.
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.

### **SELECTED INVITED PRESENTATIONS**

Newman, P., Conserving acoustic environments and improving human wellbeing in protected areas: Invited Keynote Speaker, Pennsylvania Bureau of Forestry Winter Management Conference, State College, PA, January 2020

Newman, P., Are we loving Parks to death? Finding balance in use and preservation: Invited Keynote Speaker, US State Department Speakers Program, US Embassy, Kathmandu Nepal, (International) October 2019

Newman, P., Balancing Use and Preservation in Protected Natural Areas, Invited Keynote Speaker, US State Department Speakers Program, US Embassy, Muscat, Oman (International) October 2019

Newman, P., & Taff, B. D. Protecting the Acoustic Environment in National Parks: Invited Keynote Speaker, Department of Conservation, Christchurch, New Zealand (International) June 2019

Taff, B. D., Peel, V., \*Rice, W. L., Lacey, G., Pan, B., Klemm, C., Newman, P., & Hutchins, B. Healthy Parks, Healthy People: Evaluating and improving park service efforts to promote health and well-being. Paper presented at the Tourism and Travel Research Association Conference. Melbourne, Australia, June 2019. (Juried) (International).

Newman, P., & Taff, B. D. Managing visitors in high use National Parks, (2018) Keynote Speaker, Tongji University. Shanghai, Shanghai, China (International) December, 2018

\*Rice, W. L., Taff, B. D., Miller, Z. D., Newman, P., \*Newton, J., D'Antonio, A., Baker, J., & Monz, C. Teton recon: Mixed-methods approaches to measuring recreational ecosystem services in Grand Teton National Park. Paper presented at the 14th Biennial Scientific Conference on the Greater Yellowstone Ecosystem. Big Sky, Montana, September 2018. (Juried) (National).

\*Ferguson, L. C., Newman, P., Taff, B. D., Miller, Z. D., Barber, J., Levenhagen, M., Francis, C., Shr, Y., Petrelli, A., & White, C. Case studies in coupled human natural systems and measuring acoustic experiences. Paper presented at the 2018 International Symposium on Society and Resource Management, Snowbird, UT, June 2018. (Juried) (International).

\*Rice, W., Taff, B. D., Newman, P., \*Newton, J., Monz, C., D'Antonio, A., & Miller, Z. D., Wanderlost: Increased visitor use and benefit-achievement in Grand Teton National Park's String and Leigh Lakes. Paper presented at the National Environment and Recreation Research Symposium, Annapolis, MD, February 2018. (Juried) (National).

\*Newton, J., Newman, P. B., & Taff, B. D. A stated choice approach to Grand Teton National Park Visitors. Paper presented at the George Wright Society Conference, Norfolk, VA, April 2017. (Juried) (National).

\*Newton, J., Newman, P. B., Taff, B. D., D'Antonio, A., & Monz, C. Spatial Temporal Dynamics of Visitor Stopping Behavior Along a Rustic Park Road. Paper presented at the George Wright Society Conference, Norfolk, VA, April 2017. (Juried) (National).

\*Abbott, L., Newman, P., & Taff, B. D. The effects of natural and anthropogenic noise on climber experiences in Grand Teton National Park. Paper presented at the George Wright Society Conference, Norfolk, VA, April 2017. (Juried) (National).

Taff, B. D., \*Schwartz, F., Lawhon, B., & Newman, P. Social and ecological health: Leave No Trace science. Paper presented at the Tourism Naturally Conference, Alghero, Italy, October 2016. (Juried) (International).

Newman, P., & Taff, B. D. Conserving acoustic environments and wellbeing in protected areas. Paper presented at the Tourism Naturally Conference, Alghero, Italy, October 2016. (Juried) (International).

Taff, B. D., \*Schwartz, F., Lawhon, B., & Newman, P. Social and ecological health: Leave No Trace science. Paper presented at the Tourism Naturally Conference, Alghero, Italy, October 2016. (Juried)

Newman, P., & Taff, B. D. Conserving acoustic environments and wellbeing in protected areas. Paper presented at the Tourism Naturally Conference, Alghero, Italy, October 2016. (Juried)



Taff, B. D., & Benfield, J., Newman, P., & Smyth, J. Soundscape lessons learned and current research examining acoustic environments and human health through physiological response. Paper presented at the International Symposium on Society and Resource Management, Charleston, SC, June 2015. (Juried)

\*Abbott, L., Newman, P., Benfield, J., & Taff, B. D. Nature's transformational power: Health metrics and measures linked to Healthy Parks Healthy People. Paper presented at the George Wright Society Conference, Oakland, CA, April 2015. (Juried)

\*Newton, J. N., Newman, P., Monz, C., Taff, B. D., & D'Antonio, A. Methods used to understand visitor use, and social and ecological impacts in Grand Teton National Park. Paper presented at the Northeastern Recreation Research Symposium, Annapolis, MD, April 2015.

\*Newton, J. N., Newman, P., Taff, B. D., & Weinzimmer, D. Examining perceptions of soundscapes and potential management action in Bandelier National Monument. Paper presented at the Northeastern Recreation Research Symposium, Annapolis, MD, April 2015.

Taff, B. D., Cooper, C., & Newman, P. Social science and citizen science to inform sound and light management. Paper presented at the American Association for the Advancement of Science Annual Meeting, San Jose, CA, February 2015. (Juried)

Newman, P., Taff, B. D., Trevino, K., Fristrup, K., Barber, J., & Allen, D. Conserving acoustic environments in protected natural areas. Paper presented at the World Parks Congress, Sydney, Australia, November 2014. (Juried)

Taff, B. D., Newman, P., Dattilo, J., Brownlee, M., Czaja, M., Trevino, K., Wong, D., & Bell, A. Promoting health and well-being for military personnel: Exploring leisure, recreation, and natural soundscapes as mediums for restoration. Paper presented at 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 Symposium, University of Utah, Salt Lake City, UT, September 2014. (Juried)

Taff, B. D. , Research regarding natural sounds and night skies within the context of parks and protected areas. Paper presented at the International Symposium on Society and Resource Management, Hannover, Germany, June 2014. (Juried)

Benfield, J., Smyth, J., Taff, B. D., & Newman, P. Soundscape can impede or improve recovery from stress. Paper presented at the International Symposium on Society and Resource Management, Hannover, Germany, June 2014. (Juried)

Taff, B. D., Newman, P., Weinzimmer, D., Lawson, S., Trevino, K., Fristrup, K., & Turina, F. Protecting soundscapes in U.S. National Parks: The state of research in the field and laboratory. Paper presented at the International Symposium on Society and Resource Management, Estes Park, CO, June 2013. (Juried)

Weinzimmer, D., Newman, P., Taff, B. D., Bell, P., Trevino, K., Fristrup, K., Turina, F., & Lynch, E. Cognitive, affective, and biophysical response to motorized noise in national parks. Paper presented at the George Wright Society Conference, Denver, CO, March 2013. (Juried)

Newman, P. , Taff, B. D., Lawson, S., Fristrup., K., & Trevino, K. Protecting soundscapes in U.S. national parks: Lessons learned from the laboratory to the field. Paper presented at the George Wright Society Conference, Denver, CO, March 2013. (Juried)

Taff, B. D., Lawhon, B., & Newman, P. Influences on future Leave No Trace behavior in national parks. Paper presented at the George Wright Society Conference, Denver, CO, March 2013. (Juried)

Newman, P., & Taff, B. D., Lawson, S., Fristrup, K., & Trevino, K. Protecting soundscapes in U.S. national parks: Developing visitor simulation and noise exposure models. Paper presented at the

International Conference on Monitoring and Management of Visitors in Recreational and Protected Areas, Stockholm, Sweden, August 2012. (Juried)

\*Taff, B. D., & Newman, P. Visitor perceptions of alternative transportation in Yosemite and Rocky Mountain National Parks. Paper presented at the Rocky Mountain National Park Research Conference, Estes Park, CO, March 2012. (Juried)

\*Taff, B. D. Visitor perceptions of alternative transportation in Yosemite and Rocky Mountain National Parks. Paper presented at the Federal Planning Division Regional Workshop, Denver, CO, November 2011.

\*Taff, B. D., & Newman, P. The role of messaging on commercial aircraft sights and sounds. Paper presented at the George Wright Society Conference, New Orleans, LA, March 2011. (Juried)

\*Taff, B. D., & Newman, P. Visitor perceptions of alternative transportation in Yosemite and Rocky Mountain National Parks. Paper presented at the George Wright Society Conference, New Orleans, LA, March 2011. (Juried)

\*Taff, B. D., Newman, P., Bright, A., & Vagias, W. Frontcountry and backcountry visitor attitudes towards Leave No Trace: Are we preaching to the choir? Paper presented at the George Wright Society Conference, New Orleans, LA, March 2011. (Juried)

Newman, P.; Lawson, S.R., Fristrup, K., Trevino, K., 2014. Sustainable Transportation in National Parks at Università degli Studi di Trento, Italy

Newman, P.; 2013. Managing Soundscapes in U.S. National Parks- Krakow, Poland invited by the Polish National Park Service

Newman, P.; Lawson, S.R., Fristrup, K., Trevino, K., 2012. Managing Soundscapes in U.S. National Parks, Acoustic Society of America Conference, Hong Kong

Newman, P.; 2010. Adaptive Management and Noise Reduction in U.S. National Parks, A Case Study of Muir Woods National Monument. Technische Universität Berlin, Berlin, Germany,

Newman, P.; Manning, R.E., Stack, D.W., Fristrup, K., 2008. Managing Soundscapes in U.S. National Parks, A Case Study of Muir Woods National Monument. Managing and Monitoring Visitor Flows Conference, Montecatini, Italy

Newman, P. 2007. Managing Use in Protected Areas. Balancing use and Preservation. Vth Brazilian Parks Congress. Fauz do Iguacu, Brazil

Newman, P. 2006. Management Applications of Current Research on Carrying Capacity Decision Making: Application of ROS in the Latin American Context using ROVAP, ECOSUR: San Cristobal de Las Casas, Chiapas, Mexico

Newman, P. 2005. Informing Carrying Capacity Decision-Making in US National Parks, E-Tour, Naturvaden, Stockholm, Sweden

Newman, P, Theobald, D. 2003. Applying Carrying Capacity-related Management Frameworks in Chocoyero Reserve, COMAP, Nicaragua (Presentation in Spanish)

## EDUCATIONAL GRANTS:

- Penn State University Sustainability Institute Innovation Fund** 2013-15  
Newman, P., Kerstetter, D., Kleban, P. Funding to support the infusion of concepts of Sustainability into the RPTM Curriculum.
- Colorado State University Office of Service Integration** 2006  
Newman, P. Funding to support the development of service learning model for the course “Principles of Protected Areas Management (RR 331). Money helps to fund student run service-learning projects and management at the Environmental Learning Center.
- Colorado State University Office of Service Integration** 2005  
Newman, P. Funding to support the development of a service learning model for the course “Principles of Protected Areas Management (RR 331). Money helps to fund student run service-learning projects and management at the Environmental Learning Center.
- Center for Teaching and Learning, University of Vermont** 2000-02  
Funding to support the development of a teaching/learning model and core curriculum website for the University of Vermont, School of Natural Resources.

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## **PAST EXPERIENCE**

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- National Park Service Ranger, Resources Management, Yosemite National Park, CA** 6/98- 9/99  
Coordinated wilderness restoration program for Yosemite National Park. Responsibilities included wilderness resource monitoring, back-country patrol and teaching resource mitigation techniques to Student Conservation Association (SCA) crews. Designed a campsite impact monitoring system utilizing spatial analysis techniques. Prepared and presented papers and attended national conferences including the George Wright Society (1999) and the National Wilderness Conference (1999) representing Yosemite National Park, Resources Management team.
- Assist. Director, Day Camp, MA Audubon Wildlife Sanctuary, Martha’s Vineyard, MA** 7/96-9/96  
Organized and trained environmental educators to teach marine ecology, snorkeling and birding to kids between the ages of 8-13 years. Also led public natural history canoe tours and bird walks.
- Instructor/Naturalist, Yosemite Institute, Yosemite National Park, CA** 9/94-7/96  
Taught montane ecology, geology, botany and tracking to students and elder hostel participants. Guided back-country hiking trips teaching “Leave No Trace” and Wilderness ethics. Also presented weekly evening programs to groups of 200+ on winter ecology of the Sierra Nevada.
- Backcountry Patrol, U.S.D.A. Forest Service, Payette National Forest, ID** 6/92-9/92  
Patrolled the backcountry of the Frank Church Wilderness of No Return on ten-day loops. Also responsible for trail maintenance in the Chamberlain District. Taught “Leave No Trace” techniques to public.

**RELATED CERTIFICATIONS AND ACTIVITIES:**

- National Ski Patroler, Tussey Mountain, PA 2014-Present
  - Outdoor Emergency Care (OEC), National Ski Patrol (Re-certified 2019)
  - Tobaggon Handling Skills (Re-certified 2020)
  - Incident Command, ICS-100, FEMA (Certified 2019)
  
- Wilderness First Responder, SOLO, Conway, NH 1999-2008
- Type I Avalanche, Certification/ Diamond Peaks Ski Patrol, Colorado 2009
- “Leave No Trace” Trainer, National Outdoor Leadership School (NOLS) 2005
- Wildland Fire Fighter Type II: Redcard Certified, National Park Service 1999-2000

**COMPLETED MARATHONS/ ULTRA MARATHONS:**

- 2015 New York City Marathon, NY
- 2012 Blue Sky Trail Marathon, Fort Collins, CO
- 2011 New York City Marathon, NY
- 2011 Bear Lake to Long Meadows Continental Divide Ultra
- 2010 Chicago Marathon
- 2006 Colorado Marathon, Fort Collins, CO
- 2003 New York City Marathon, NY
- 2002 Tuolumne to White Wolf Ultra, Yosemite, CA
- 2002 Tuolumne to Mammoth Ultra, Yosemite, CA
- 2001 Cape Cod Marathon, MA
- 2000 New York City Marathon, NY
- 1999 Vermont City Marathon, VT
- 1996 Avenue of Giants, Arcata, CA