

Curriculum vitae
Nathan Reigner, PhD

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EDUCATION

- Ph.D. Natural Resources. University of Vermont, Rubenstein School of Environment and Natural Resources. 2014
- M.S. Forestry. Virginia Polytechnic Institute and State University, Department of Forestry. 2009
- B.A. Anthropology and Sociology. Gettysburg College. 2001

PROFESSIONAL APPOINTMENTS

- 2017 - 2018 Principal, Nathan Reigner Tourism Science, LLC.
- 2015 - 2018 Affiliate, Park Studies Laboratory, Rubenstein School of Environment and Natural Resources, University of Vermont.
- 2015 - 2017 Consultant, Public Lands Planning and Management, Resources Systems Group, Inc.
- 2014 - 2015 Associate Director, Park Studies Laboratory, Rubenstein School of Environment and Natural Resources, University of Vermont.
- 2014 Instructor, Environmental Policy Program, Champlain College.

PEER REVIEWED PUBLICATIONS

Edited volumes

- 2012 Reigner, N., Lawson, S., White, D., Meldrum, B., and Manning, R. Editors. From Model T's to computer models: Integrating transportation and visitor capacity research and planning at Yosemite National Park. *George Wright Forum*, 29:3, pp. 302-361.

Refereed journal articles

- 2016 Xiao, X., Perry, E., Manning, R., Krymkowski, D., Valliere, W., & Reigner, N. (2016). Effects of transportation on racial/ethnic diversity of national park visitors. *Leisure Sciences*, p. 1-18.
- 2015 Anderson, L., Manning, R., Valliere, W., Reigner, N., Pettengill, P., & Pierce, V. (2015). Assessing the Full Circle Trolley: implications for alternative transportation systems in the national parks. *Journal of Park and Recreation Administration*, 33(1).

- 2015 Kidd, A. M., Monz, C., D'Antonio, A., Manning, R. E., Reigner, N., Goonan, K. A., & Jacobi, C. (2015). The effect of minimum impact education on visitor spatial behavior in parks and protected areas: An experimental investigation using GPS-based tracking. *Journal of Environmental Management*, 162, p. 53.
- 2013 Pettebone, D., Meldrum, B., Leslie, C., Lawson, S. R., Newman, P., Reigner, N., & Gibson, A. (2013). A visitor use monitoring approach on the Half Dome cables to reduce crowding and inform park planning decisions in Yosemite National Park. *Landscape and Urban Planning*, 118, p. 1.
- 2012 Reigner, N., Kiser, B., Lawson, S., & Manning, R. (2012). Using transportation to manage recreation carrying capacity. In *The George Wright Forum* 29(3).
- 2012 Reigner, N., Lawson, S., Meldrum, B., Pettebone, D., Newman, P., Gibson, A., & Kiser, B. (2012). Adaptive Management of Visitor Use on Half Dome, An Example of Effectiveness. *Journal of Park and Recreation Administration*, 30(3).
- 2012 Pettengill, P., Manning, R., Anderson, L., Valliere, W., & Reigner, N. (2012). Measuring and managing the quality of transportation at Acadia National Park. *Journal of Park and Recreation Administration*, 30(1).
- 2011 Manning, R., Valliere, W., Anderson, L., McCown, R. S., Pettengill, P., Reigner, N., Lawson, S., Newman, P., Budruck, M., Laven, D., Hallo, J., Park, L., Bacon, J., Abbe, D., van Riper, C., and Goonan, K. (2011). Defining, measuring, monitoring, and managing the sustainability of parks for outdoor recreation. *Journal of Park and Recreation Administration*, 29(3).
- 2010 Van Riper, C., Manning, R. E., & Reigner, N. (2011). Perceived impacts of outdoor recreation on the summit of Cascade Mountain, New York. *Adirondack Journal of Environmental Studies*, 16.
- 2009 Reigner, N., & Lawson, S. (2009). Improving the efficacy of visitor education in Haleakalā National Park using the Theory of Planned Behavior. *Journal of Interpretation Research*, 21.
- 2007 Gianessi, L., & Reigner, N. (2007). The value of herbicides in US crop production. *Weed Technology*, 21(2).
- 2006 Gianessi, L., & Reigner, N. (2006). The importance of fungicides in US crop production. *Outlooks on Pest Management*, 17(5).

SELECTED CONFERENCE ACTIVITIES

Invited speaking engagements

- 2018 Reigner, N., and Perry, E., Frameworks for Preservation, Tourism, and Relevance at Cultural Heritage and Archeological Sites in Oman. Ancient Oman: Archaeological Digs and Historical Discoveries in the Sultanate of Oman, Sultan Qaboos Cultural Center, Washington, DC.

- 2017 Reigner, N. International Protected Area Management Priorities and Perspectives – Identifying Common Challenges and leveraging Shared solutions. George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, Norfolk, VA.
- 2017 Wimpey, J., and Reigner, N., Visitor Use Modeling Studies and Related Management Strategies. John Muir Trail – Pacific Crest Trail Collaborative Workshop, Sacramento, CA.
- 2016 Reigner, N. Maximizing the benefits and minimizing the impacts of tourism with indicator-based planning and management. Arctic Circle Assembly, Reykjavik, Iceland.
- 2015 Reigner, N. A pragmatic perspective on technology use for social science research in parks. George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, Oakland, CA.
- 2015 Reigner, N., Ethics and the extension of rights in American environmental thought. US Coast Guard Academy, New London, CT.
- 2014 Reigner, N. Visitor Use: Monitoring and Managing the Social Dimension of Wilderness Recreation. Arthur Carhart National Wilderness Training Center Interagency Regional Wilderness Stewardship Training, Rutland, VT.
- 2011 Reigner, N. Visitor Use: Monitoring and Managing the Social Dimension of Wilderness Recreation. Arthur Carhart National Wilderness Training Center Interagency Regional Wilderness Stewardship Training, Gatlinburg, TN.

Conferences, workshops, and panels organized

- 2017 Reigner, N. and EcoCentre Zapovedniks, Modern socio-ecological and scientific approaches to planning and management of ecological tourism in protected areas. Prioksko-Terrasny Nature Reserve, Russia.
- 2017 Reigner, N. and Gunnarsdottir, G.P. Marine and Coastal Tourism Management. Arctic Circle Assembly, Reykjavik, Iceland.
- 2017 Reigner, N. and Thomsen, J. International protected area management priorities and perspectives: identifying common challenges and leveraging shared solutions. George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, Norfolk, VA.
- 2013 Reigner, N. and Beeco, A. Spatial Technologies for Monitoring, Evaluating and Managing Visitor Use. George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, Denver, CO.

Selected scholarly presentations

- 2015 Reigner, N., and Wimpey, J. Monitoring crowding on trails using trail counters & time lapse photography. Northeast Recreation Research Symposium, Annapolis, MD.

- 2015 Kidd, A., D'Antonio, A., Reigner, N., Monz, C. and Manning, R. An experimental investigation of the effect of minimum impact education on visitor behavior. George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, Oakland, CA.
- 2015 Manning, R., Reigner, N., Jacobi, C., Kidd, A., D'Antonio, A., and Monz, C. "Conventional and alternative approaches to low-impact education: closing the distance between managers and visitors." Presented at the George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, Oakland, CA.
- 2015 Wimpey, J., Reigner, N., and Manning, R. Modeling recreation: carrying capacity and social dimensions explored in the digital environment. George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, Oakland, CA.
- 2015 Xiao, X., Reigner, N., and Manning, R. Calibration of performance measures for recreation and sustainable transportation in parks and on public lands. George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, Oakland, CA.
- 2014 Xiao, X., and Reigner, N. Quantitative approaches to calibrate performance measures for transportation and recreation on public lands. Transportation Research Board, Conference on Transportation in Parks and Public Lands. Washington, DC.
- 2014 Xiao, X., and Reigner, N. Sustainable Transportation Planning for Rural, Recreational and Park Landscapes: Calibrating Levels of Service for Multiple Modes. American Association of State Highway and Transportation Officials GIS for Transportation Symposium. Burlington, VT.
- 2014 Reigner, N., Manning, R., Kidd, A., Goonan, K., and Monz, C. Expert Ethics, Novice Knowledge: Analyzing Conventional and Alternative Approaches to Low-Impact Education. 26th Annual Northeastern Recreation Research Symposium, Cooperstown, NY.
- 2013 Reigner, N., Goonan, K., van Riper, C., Wimpey, J., Manning, R. and Monz, C. Integrated Social and Ecological Recreation Monitoring for Vermont's Forests. Vermont Monitoring Cooperative Conference, Burlington, VT.
- 2013 Reigner, N. and Jacobi, C. From Education to Impact: The Effects of Messaging on Environmental Conditions in Acadia National Park. 8th Northeast Alpine Stewardship Gathering, Antioch College New England, NH.
- 2013 Reigner, N., Goonan, K., Manning, R., Carena van Riper and Monz, C. Managing Recreation on Mountain Summits in the Northern Forest. 20th Annual Conference on the Adirondacks, Adirondack Research Consortium, Lake Placid, NY.
- 2013 Wimpey, J., Reigner, N., Spies, J. and Manning, R. Modeling Recreation Dynamics and Capacity at Multiple Spatial Scales. George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, Denver, CO.

- 2013 Reigner, N., Spies, J., Wimpey, J. and Manning, R. Time-Lapse Video and GIS: Remote Sensing to Examine the Behavioral Effects of Crowding in Recreation Settings. George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, Denver, CO.
- 2013 Jacobi, C., Reigner, N., Marion, J., Manning, R. and Anderson, L. From Education to Impact: The Effects of Messaging on Environmental Conditions in Acadia National Park. George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, Denver, CO.
- 2012 Reigner, N., Wimpey, J., Manning, R. and Spies, J. Developing Spatial Metrics for Crowding and Recreation Experiences. Annual Meeting of the Association of American Geographers, New York, NY.
- 2011 Reigner, N., Wimpey, J., Manning, R. and Meldrum, B. A Spatial Method for Monitoring Indicators of Visitor Use and Experiential Quality in Parks. The 17th International Symposium on Society and Resource Management, Madison, WI.
- 2011 Reigner, N., Manning, R., Lawson, S., Savidge, M. and Brees, A. Alternative Indicators of Crowding at Alcatraz Island, A Comparative Study. George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, New Orleans, LA.
- 2011 Wimpey, J., Reigner, N., Manning, R., Lawson, S., Kiser, B., Meldrum, B. "Standardizing Standards" – Using Geospatial Data to Generalize Crowding Standards. George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, New Orleans, LA.
- 2011 Reigner, N., Gibson, A., Newman, P., Lawson, S., Choi, J., and Meldrum, B. Investigating Day Use on Half Dome: Visitor Behavior and Perceptions of Crowding and Risk. George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, New Orleans, LA.
- 2011 Reigner, N., Kiser, B., Lawson, S., Choi, J., and Manning, R. Alternative Transportation Planning and Experiential Quality in Muir Woods: An Application of Simulation Modeling. George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, New Orleans, LA.
- 2010 Manning, R., Anderson, L., Pettengill, P., Reigner, N. and Valliere, W. Integrating Transportation and Outdoor Recreation through Indicators and Standards of Quality. 5th International Conference on Monitoring and Management of Visitor Flows in Recreational and Protected Areas, Wageningen, Netherlands.
- 2009 Reigner, N. and Lawson, S. Modeling Relationships Among Visitor Use, Safety and Crowding on the Half Dome Cables Route in Yosemite National Park. George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, Portland, OR.
- 2009 Reigner, N. and Lawson, S. Improving the Efficacy of Visitor Education in Haleakalā National Park using the Theory of Planned Behavior. George Wright

Society Biennial Conference on Parks, Protected Areas, and Historic Sites,
Portland, OR.

2008 Reigner, N. and Lawson, S. Using the Theory of Planned Behavior to Understand Visitor Behavior at the `Ohe`o Pools in Haleakala National Park, Hawaii. The 14th International Symposium on Society and Resource Management, Burlington, VT.

TEACHING EXPERIENCE

Champlain College

Instructor Introduction to GIS and Spatial Analysis. (2014)

University of Vermont

Co-Instructor Park and Wilderness Management. (2013, 2014)

Virginia Tech

Laboratory Instructor Park and Recreation Planning. (2008)

Teaching Assistant Park and Recreation Management. (2008)

Laboratory Instructor Park and Recreation Management. (2007)

Teaching Assistant Park and Recreation Planning. (2007)

AWARDS AND HONORS

2019 Fulbright Scholar, National Science Foundation Arctic Research Program & Icelandic Ministry of Foreign Affairs.

2018 Research Fellow. Sultan Quaboos Cultural Center, Sultanate of Oman.

2013 Student of the Year. U.S. Department of Transportation University Transportation Centers, University of Vermont.

2011 Outstanding Research & Scholarship Award, Graduate Programs. Rubenstein School of Environment and Natural Resources, University of Vermont.

2008 Edna Bailey Sussman Fund Award. College of Natural Resources, Virginia Polytechnic Institute and State University.

1997 - 2001 Presidential Scholar, Gettysburg College.

1996 Eagle Scout, East Greenville, PA Troop 108.

PROFESSIONAL SERVICE & MEMBERSHIP

2017 - 2018 Member, Champlain-Adirondack Biosphere Reserve Working Group, UNESCO Biosphere Reserve Program.

2016 - 2018 Appointed Member, National Academies of Science Transportation Research Board Standing Committee on the Transportation Needs of National Park and Public Lands.

- 2016 Appointed Member, International Scientific Committee, UNESCO Creative Cities Network, Valuing and Evaluating Creativity for Sustainable Regional Development.
- 2015 - 2018 Appointed Member, International Connections Working Group US Associates - UNESCO Biosphere Reserve Program.
- 2015 - 2018 Appointed Member, Research and Evaluation Working Group US Associates - UNESCO Biosphere Reserve Program.
- 2014 - 2018 Reviewer, Journal of Sustainable Tourism.
- 2014 - 2018 Reviewer, Journal of Outdoor Recreation and Tourism.
- 2012 - 2018 Reviewer, Journal of Environmental Management.
- 2012 - 2018 Reviewer, Journal of Park and Recreation Administration.
- 2010 – 2018 Member, The George Wright Society.