

## **Dr. Jeremy F. Wimpey**

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### **CURRENT POSITION**

Principal, Applied Trails Research: Project manager and research lead providing trail and outdoor recreation planning, design, assessment and management services to a variety of public land management agencies and private landholders. Specializing in training, community involvement and geospatial services for planning and management activities.

Adjunct Research Faculty, The Pennsylvania State University: College of Health and Human Development, Recreation, Park and Tourism Management Department. 2015- current.

### **EDUCATION**

2009 Ph.D. Geospatial Environmental Analysis, Virginia Polytechnic Institute and State University, Blacksburg, VA

2006 M.S Integrated Science and Technology, James Madison University, Harrisonburg, VA

1999 B.S. Geography, James Madison University, Harrisonburg, VA

### **REFEREED PUBLICATIONS**

Park, Logan, Jeffrey L. Marion, **Jeremy Wimpey**. (In Press). Efficacy of Combining Education and Site Management in Reducing Off-Trail Travel in a Fragile Biotic Community, Acadia National Park. *Journal of Park & Recreation Administration*.

Logan Park, **Jeremy Wimpey**, Jeffrey Marion. 2013. Research to Evaluate the Efficacy of Additive Indirect and Site Management Techniques in Reducing Off-Trail Behavior in a Fragile and Unique Biotic Community, Potomac, MD. *Parks and Recreation* (in review)

Marion, Jeffrey L., **Jeremy F. Wimpey**, & Logan O. Park. 2012. The science of trail surveys: Recreation ecology provides new tools for managing wilderness trails. *Park Science* 28(3): 60-65

**Wimpey, J.**, Marion, J.L. 2011. A Spatial Exploration of Informal Trail Networks Within Great Falls Park, Virginia. *Journal of Environmental Management* 92(3): 1012-1022.

**Wimpey, J.**, Marion, J.L. 2010. The Influence of Use, Environmental and Managerial Factors on the Width of Recreational Trails. *Journal of Environmental Management* 91(10): 2028-2037.

Monz, C. A., Marion, J. L., Goonan, K. A., Manning, R.E., **Wimpey, J.**, Carr, C. 2010. Assessment and monitoring of recreation impacts and resource conditions on mountain summits: Examples from the Northern Forest, USA. *Mountain Research and Development* 30(4): 332-343.

#### **BOOK CHAPTERS**

Marion, Jeffrey L., **Jeremy Wimpey**, and Logan O. Park. "Monitoring and assessing trail conditions at Acadia National Park" Book Chapter In: R.E. Manning (ed.), pp. 185-195. Parks and People: Managing Outdoor Recreation at Acadia National Park. Burlington, VT: University of Vermont Press.

Marion, Jeffrey L. and **Jeremy Wimpey**. "Environmental impacts of mountain biking: Science review and best practices" Book Chapter In: Managing Mountain Biking. Pete Webber, editor. International Mountain Biking Association, Boulder, CO pp. 94-111.

#### **TEACHING EXPERIENCE**

**2009-2013** Workshop Developer and Lead Instructor: Sustainable Trail and Outdoor Recreation Planning, Design, and Management. Applied Trails Research, LLC

**2008-2009** Teaching Assistant- to Dr. Karen Hockett in Outdoor Recreation Planning (FOR3564), Department of Forestry, Virginia Polytechnic Institute

**2006-2007** Teaching Assistant- to Dr. Steve Lawson in Outdoor Recreation Planning (FOR3564) and Outdoor Recreation Management (FOR3544), Department of Forestry, Virginia Polytechnic Institute

**2003-2005** Teaching Assistant- to Dr. Glen Gustafson Physical Geography (GEOG210), Introductory Remote Sensing (GEOG285), Advanced Remote Sensing (GEOG385), James Madison University

#### **TECHNICAL REPORTS**

Marion, Jeffrey L., **Jeremy Wimpey**, & Christopher Carr 2013. *Long-Term Monitoring Methods for Assessing Visitor Impacts to Mountain Summits*. Final Research Report. U.S. Geological Survey, Distributed by the Virginia Tech College of Natural Resources, Blacksburg, VA.

Park, Logan, **Jeremy Wimpey**, and Nathan Reigner. 2012. "Research on Mountain Bicycling Economic Impact and Visitor Use at the Allegrippis Trail System: Raystown Lake, Pennsylvania" Southern Illinois University, Final Research Report, Carbondale, IL

Marion, Jeffrey L. and **Jeremy Wimpey**. 2012. "Protocol Development for Assessing Informal and Formal Trails in Denali National Park and the Arctic National Wildlife Refuge" Virginia Tech, Final Research Report, Blacksburg, VA

**Wimpey, Jeremy**, and Jeffrey L. Marion. 2011. "Formal and Informal Trail Monitoring Protocols and Baseline Conditions: Great Falls Park and Potomac Gorge" Virginia Tech, Final Research Report, Blacksburg, VA

Marion, Jeffrey L. and **Jeremy Wimpey**. 2011. *"Informal Trail Monitoring Protocols: Denali National Park and Preserve"* Final Research Report. U.S. Geological Survey, Distributed by the Virginia Tech College of Natural Resources, Blacksburg, VA

Marion, Jeffrey L., **Jeremy Wimpey**, and Logan Park. 2011. *"Informal and Formal Trail Monitoring Protocols and Baseline Conditions: Acadia National Park"* Virginia Tech, Final Research Report, Blacksburg, VA

Jeffrey Marion, Carolyn Widman, Yu-Fai Leung, Logan Park, **Jeremy Wimpey**. 2011. C & O Canal National Historic Park Trails Study Final Report. Virginia Tech, Final Research Report, Blacksburg, VA

Hockett, K., A. Clark, Y.F. Leung, J.L. Marion, L. Park, **J. Wimpey**, & C. Widman. 2009. *"Deterring Off-Trail Hiking in Protected Natural Areas: Evaluating Options with Surveys and Unobtrusive Observation."* Virginia Tech, Final Research Report, Blacksburg, VA

#### **PUBLICATIONS IN PROGRESS**

Marion, Jeffrey L., & **Wimpey, Jeremy** (90%). Assessing the Influence of Sustainable Trail Design and tread Hardening in Reducing Soil Loss on Trails. *Journal of Environmental Management*

#### **INVITED PRESENTATIONS & LECTURES**

"Keynote Speaker: National GIS Day", Marshall University (November 20, 2013) Huntington, WV  
"Research Informs Planning and Development ". 2013. Recreation Park and Tourism Management Department at Pennsylvania State University. State College, PA

"Sustainable Trail Techniques". 2013. Rothrock State Forest Conservation Volunteer Training, Spring Mills, PA

"Applications of GIS and GPS in Outdoor Recreation Management ". 2013. Rubenstein School of Environment and Natural Resources at the University of Vermont. Burlington, VT

"Developing the Trail Plans that Pay: Solutions-Based Trail Assessment and Planning". 2013. American Trails' International Trail Symposium, Scottsdale, AZ

"GPS and GIS Techniques for Trail Planning, Design and Management". 2013. Professional Trail Builders Association's Sustainable Trails Conference. Albuquerque, NM

"GPS and GIS Techniques for Trail Builders". 2012. Professional Trail Builders Association's Annual Member Meeting. Albuquerque, NM

"GPS and GIS Tools and Techniques for Planning, Design Assessment and Management of Trails". 2011. Professional Trail Builders Association's Sustainable Trails Conference. Asheville, NC

"Trail Inventory, Monitoring and Assessment Techniques". 2011. Arthur Carhart National Wilderness Training Center Interagency Regional Wilderness Stewardship Training. Gatlinburg, TN

"*Trail Science, Design and Management*". 2010. Presentation and Panel Member USFS and IMBA Tahoe Trails Conference. South Lake Tahoe, CA

"*Environmental Impacts of Mountain Biking: Science Review and Best Practices*". 2010. International Mountain Bike Association World Summit. Augusta, GA

"*Recreation Ecology: The Science Behind Sustainable Recreation*". 2009. Professional Trail Builders Association's Sustainable Trails Conference. Asheville, NC

"*Monitoring Informal Trails of Potomac Gorge*" National Park Service's: Informal Trails workshop at Great Falls Park, VA

"*Environmental Impacts of Mountain Biking: Science Review and Best Practices*". 2008. International Mountain Bike Association World Summit. Park City, UT

### **PROFESSIONAL CONFERENCE PRESENTATIONS**

**Wimpey, Jeremy**, Nathan Reigner, Jillian Spies and Robert Manning. 2013. "*Modeling Recreation Dynamics and Capacity at Multiple Spatial Scales*". The 2013 George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, Denver, CO.

Reigner, Nathan, Jillian Spies, **Jeremy Wimpey** and Robert Manning. 2013. "*Time-Lapse Video and GIS: Remote Sensing to Examine the Behavioral Effects of Crowding in Recreation Settings*". The 2013 George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, Denver, CO.

Reigner, Nathan, Jillian Spies, Robert Manning and **Jeremy Wimpey**. 2012. "*Transcending Place Specificity: Integrating Spatial and Social Data for Park and Recreation Management*". 24<sup>th</sup> Annual Northeastern Recreation Research Symposium, Cooperstown, NY.

Reigner, Nathan, **Jeremy Wimpey**, Robert Manning and Jillian Spies. 2012. "*Developing Spatial Metrics for Crowding and Recreation Experiences*". Annual Meeting of the Association of American Geographers, New York, NY.

Reigner, Nathan, **Jeremy Wimpey**, Robert Manning and Bret Meldrum. 2011. "*A Spatial Method for Monitoring Indicators of Visitor Use and Experiential Quality in Parks*". The 17<sup>th</sup> International Symposium on Society and Resource Management, Madison, WI.

**Wimpey, Jeremy**, Nathan Reigner, Robert Manning, Steve Lawson, Brett Kiser, Bret Meldrum. 2011. "*'Standardizing Standards' – Using Geospatial Data to Generalize Crowding Standards*". 2011 George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, New Orleans, LA.

**Wimpey, Jeremy**. 2009. "*Informal Trail Assessment and Empirical Modeling of Spatial Distribution and Density: Insights and Discussion*". 2009 George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites Portland, OR.

**Wimpey, Jeremy.** 2009. "*Monitoring Trampling Impacts on a Mountain Summit with Ground-based Digital Photography and Image Processing*". The American Association of Geographers Annual Meeting Las Vegas, NV.

Logan Park, **Jeremy Wimpey**, Jeffrey Marion. 2008. "*Reducing and Preventing Off- Trail Walking in Ecologically Sensitive Park Areas: Additive Techniques*". Southeastern Recreation Research Conference, Savannah, GA.

Logan Park, Jeffrey Marion, **Jeremy Wimpey**. 2008. "*Relating Trail Design Characteristics to Tread Width: Correlates in the Acadia National Park Formal Hiking Trail System*". International Symposium on Society and Resource Management, Burlington, VT.

**Wimpey, Jeremy.** 2008. "*Monitoring Informal Trail Networks in Parks: Some Methods and Results*". South East Recreation Research Conference, Savannah, GA.

**Wimpey, Jeremy.** 2008. "*Monitoring Informal Trail Networks in Parks: Some Methods and Results*". International Symposium on Society and Resource Management Burlington, VT.

**Wimpey, Jeremy.** 2007. "*Methodological Approaches for Monitoring the Number, Spatial Extent, and Condition of Informal Trails*". 2007 George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites Minneapolis, MN.

## **MEMBERSHIPS**

American Association of Geographers  
Professional Trail Builders Association (Board Member 2013)  
George Wright Society  
International Association for Society and Natural Resources  
Transportation Research Board of The National Academies

## **SERVICE**

Reviewer, Journal of Environmental Management. 2010-2013  
Reviewer, Journal of Park and Recreation Administration. 2011-2013  
Reviewer, Journal of Tourism Management. 2011-2013  
Reviewer, Landscape and Urban Planning. 2012-2013  
Reviewer, Tourism Management Perspectives. 2011-2013  
Reviewer, Biological Conservation. 2010-2013

Professional Trail Builders Association, Treasurer 2014—  
Professional Trail Builders Association, Board Member 2013—  
Professional Trail Builders Association, Conference Committee Member 2011—  
Professional Trail Builders Association, Trail Nomenclature Committee Member 2011—2013

Transportation Research Board of The National Academies:

Friend: ANF20 Bicycle Transportation Committee

Friend: ANF10 Pedestrians Committee: Pedestrian Modeling and Simulation Subcommittee

Friend: ADA40 Public Lands Committee

Session Co-Organizer 2013. The 2013 George Wright Society Biennial Conference on Parks, Protected Areas, and Historic Sites, Denver, CO, *Spatial Technologies for Monitoring, Evaluating and Managing Visitor Use*.