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CURRENT POSITION

Natural Resource Ecology Laboratory (NREL), Colorado State University, Ft. Collins, CO
1999-present: Research Scientist I. / Investigator

Associate Faculty, Warner College of Natural Resources, Colorado State University, Ft. Collins, CO
2010-present

ACADEMIC TRAINING

Ph. D.	Ecosystem Management	Colorado State University, 2009
M.S.	Forest Ecology	Colorado State University, 2003
B.S.	Natural Resource Management	Colorado State University, 1999
	Minor: Spatial Information Systems	

CURRENT PROJECT(S)

Mapping Habitat and Potential Distributions of Invasive Plant Species on USFWS National Wildlife Refuges
2010-present, Sponsor: US Fish and Wildlife Service

Advanced Species models: Developing and Testing Predictive Maps and Custom Models for Invasive Species
2007-present, Sponsor: US Geological Survey

Potential effects of climate change on harmful invasive species distributions in the U.S.
2008-present, Sponsor: US Geological Survey

A Modeling System for Invasive Species
2009-present, Sponsor: US Geological Survey

Developing a Resource Management and Monitoring Protocol for Areas of Colorado with Extensive Energy Extraction
2009-present, Sponsor: Bureau of Land Management

Effects of Climate Change on Traditional Crop Production in Ethiopia
2009-present, Sponsor: Project Mercy

PROFESSIONAL EXPERIENCE (Selected Projects)

Design, Implementation, and Analysis of the Fundamental Sentinel Unit (FSU) Prototype Activities
2008-2010, Sponsors: National Ecological Observatory Network (NEON), Inc.

Capacity Building for Natural Resource Managers in Ethiopia
2009-2010, Sponsors: National Science Foundation, The Murulle Foundation

Paul H. Evangelista: *Updated October 2010*

Vegetation and Landcover Mapping of the Bale Mountains, Ethiopia

2007-2009, Sponsor: *The Murulle Foundation*

Preliminary Site Assessment and Compilation of Geospatial Datasets for NEON Core Sites

2008-2009, Sponsors/partners: *NEON Inc / US Geological Survey*

Ponderosa Pine Inventory and Risk Assessment for the Western United States

2008-2009, Sponsors: *US Forest Service*

**Biological Fingerprinting Native and Non-native Species in the Western United States
(Invasive Species Forecasting System)**

2004-2008, Sponsors/partners: *NASA / US Geological Survey*

Habitat Mapping of the Mountain Nyala (*Tragelaphus buxtoni*) in the Ethiopian Highlands

2004-2008, Sponsors/partners: *The Murulle Foundation / Ethiopian Wildlife Conservation Department*

Utility of the Passive Tracking Index on Ethiopian Wildlife

2004-2008, Sponsors/partners: *The Murulle Foundation / USDA National Wildlife Research Center*

Vegetation Response to Coal-Bed Methane Development in the Powder River Basin, Wyoming

2002-2004, Sponsors/partners: *US Geological Survey / Bureau of Land Management*

Landscape-scale Assessment of Native and Exotic Plant Diversity and Biological Crusts in the Grand Staircase-Escalante National Monument, Utah

1999-2004, Sponsors/partners: *Bureau of Land Management / US Geological Survey*

SERVICE

Colorado State University and U.S. Peace Corp (Ethiopia)

2010-present: *Institutional Coordinator*

Under my direction, Colorado State University has a formal country partnership with Ethiopia to prepare graduate students enrolled in the Peace Corp Master's International Program for service in the fields of Natural Resources, Parks and Protected Lands, and Agriculture. Under the new program, CSU will recruit graduate students for three semesters of academic study before serving two years in Ethiopia as Peace Corp volunteers.

Interactive GIS Training for Resource Managers in Ethiopia

2007-present: *Project Manager and Developer*

The Geographic Information Systems (GIS) interactive training website (<http://www.ethGIS.colostate.edu>) is being developed by Colorado State University and The Murulle Foundation for on-line training, delivery of geospatial data, and other resources that focus on the conservation of natural resources in Ethiopia. Training material is provided on the website and will be coupled with on-site instructional lessons by CSU faculty and US Peace Corp volunteers.

National Institute of Invasive Species Science (NIISS)

2004 – present: *Project Manager/Advisor*

The mission of the NIISS (<http://www.niiss.org/>) is to work with others to coordinate data and research from various sources to predict and reduce the effects of harmful non-native plants, animals, and diseases in natural areas and throughout the United States with a strategic approach to information management, research, modeling, technical assistance, and outreach.

Tamarisk Map (T-Map)

2008 – present: *Project Manager/Advisor*

The mission of T-map (<http://www.tamariskmap.org/>) is to provide resource managers with on-line tools to manage and map field data for the distribution of invasive tamarisk.

International Union for the Conservation of Nature (IUCN, Antelope Specialist Group)

2007-2009: *Advisor*

The IUCN is responsible for maintaining the Red List of threatened and endangered species globally. My role was to provide an assessment for the endangered mountain nyala to the Ethiopian highlands, which resulted in small down-listing of the endemic antelope based on the discovery of four new populations.

The Murulle Foundation (TMF)

2000-present: *Board of Directors, Chair*

The Murulle Foundation's mission is to build an enduring coexistence of people and threatened ecosystems in sub-Saharan Africa. The foundation fosters grassroots projects, based on human and organizational development, and scientific research to promote social, economic, and environmental well-being.

GIS Training Program for Ethiopian Resource Mangers

2007-2008: *Organizer and Instructor*

Supported by The Murulle Foundation, training workshops on Geographic Information Systems (GIS) concepts and use were conducted for the Ethiopian Wildlife Conservation Authority and Bale Mountains National Park.

Advisory Committee for the Grand-Staircase Escalante Monument, Utah 2004-2007

2004-2007: *Systems Ecologist* (Three-year appointment by the Office of the US Secretary of Interior)

The Advisory Committee was formed to gather and analyze information (e.g., field examinations, public testimony, review of scientific research) to develop recommendations concerning the use and management of the Monument. Specific duties included (1) evaluating activities of the Management Science Team and (2) consulting the Advisory Committee and Monument management regarding use, research and protection of natural resources and sensitive ecosystems.

Journal Referee

Biological Conservation, Current Zoology, Ecology, Ecological Monitoring, Endangered Species Research, Journal of Arid Environments, Journal of Wildlife Research

Guest Editor for Current Zoology Special Issue on Invasive Species (2010-11)

PUBLICATIONS

Evangelista, P., S. Kumar and T. Stohlgren. (*In Review*). Assessing forest vulnerability and the potential distribution of three pine beetles under current and future climate scenarios in the Interior West of the U.S. *For Journal of Ecology and Management*.

Cross, E., **P. Evangelista**, M. Laituri and P. Newman. (*In Review*). Comparing Spatial Modeling Techniques for Exploratory Maps: Applications in Wilderness Campsite Searches. *For International Journal for Wilderness Management*.

Graham, J., G. Newman, S. Kumar, C. Jarnevich, N. Young, A. Crall, T. Stohlgren and **P. Evangelista**

Paul H. Evangelista: *Updated October 2010*

(In Press) Bringing modeling to the masses: A web based system to predict potential species distributions. *Future Internet*.

Jarnevich, C., **P. Evangelista**, T.J. Stohlgren and J. Morisette. (In Press). An update to the national tamarisk map. *For Western North American Naturalist*.

Evangelista, P. J. Norman III and P. Swartzinski. (In Review). Modeling habitat quality for the mountain nyala (*Tragelaphus buxtoni*) in the Bale Mountains, Ethiopia. *For Wildlife Research*.

Evangelista, P., T.J. Stohlgren, J.T. Morisette and S. Kumar. (2009). Mapping invasive tamarisk (*Tamarix*): a comparison of single-scene and time-series analyses of remotely sensed data. *Remote Sensing, Ecological Status and Change by Remote Sensing special issue* 1:519-533.

Evangelista, P., R., Engeman and L. Tallents. (2009). Testing a passive tracking index for monitoring the endangered Ethiopian wolf. *Integrative Zoology* 4:172-178.

Evangelista, P., J. Norman III., L. Behanu, S. Kumar and N. Alley. (2008). Predicting habitat suitability for the endemic mountain nyala (*Tragelaphus buxtoni*) in Ethiopia. *Wildlife Research* 35:409-416.

Evangelista, P., S. Kumar, T.J. Stohlgren, C.S. Jarnevich, A.W. Crall, J.B. Norman III and D. Barnett. (2008). Modeling invasion for a habitat generalist and a specialist plant species. *Diversity and Distribution* 14:808-817.

Evangelista, P., S. Kumar, T. Stohlgren, A. Crall and G. Newman. (2007). Modeling above-ground biomass of *Tamarisk ramosissima* in the Arkansas River Basin of Southeastern Colorado, USA. *Western North American Naturalist*. 67(4):503-509.

Stohlgren, T.J., G. Chong, C. Jarnevich, and **P. Evangelista**. (2006). Scale and plant invasions: a theory of biotic acceptance. *Presilia* 78: 405-426.

Chong, G.W., Y. Otsuki, T.J. Stohlgren, D. Guenther, **P. Evangelista**, C. Villa, M.A. Waters. (2006). Evaluating plant invasions from both habitat and species perspectives. *Western North American Naturalist* 66 (1):92-105.

Crall, A.W., G.J. Newman, T.J. Stohlgren, C.S. Jarnevich, **P.H. Evangelista**, D. Guenther. (2006). Evaluating dominance as a component of non-Native species invasions. *Diversity and Distributions* 12:195-204

Bergquist, E., T. Stohlgren, **P. Evangelista** and D. Guenther. (2007). Invasive species and coal bed methane development in the Powder River Basin, Wyoming. *Environmental Monitoring and Assessment*. 128:381-394.

Engeman, M. R. and **P. Evangelista**. (2006). Probing the feasibility of a Passive Tracking Index for monitoring wildlife in the lower Omo Valley, Ethiopia. *African Journal of Ecology*. 45:184-188.

Stohlgren, T.J., C. Crosier, G. Chong, D. Guenther, and **P. Evangelista**. (2005). Life-history habitat matching in invading non-native plant species. *Plant and Soil* 277:7-18.

Stohlgren, T.J., D. Guenther, **P. Evangelista**, and N. Alley. (2005). Patterns of plant rarity, endemism, and uniqueness in an arid landscape. *Ecological Applications* 15:715-725.

Evangelista, P., D. Guenther, T.J. Stohlgren and S. Stewart. (2004). Vegetation response to fire and Post-burn seeding treatments in juniper woodlands of the Grand Staircase-Escalante National Monument, Utah. *Western North American Naturalist* 64(3): 293-305.

Alley, N.W., T. J. Stohlgren, **P. H. Evangelista**, and D. A. Guenther. (2004). Iterative model development for natural resource managers: a case example in the Grand Staircase-Escalante National Monument. *Geographic Information Science*. 10(1):1-9.

Bashkin, M., T.J. Stohlgren, Y. Otsuki, M. Lee, **P. Evangelista**, and J. Belnap. (2002). Soil characteristics and exotic plant species invasions in the Grand Staircase-Escalante National Monument, Utah, USA. *Applied Soil Ecology* 22(1):67-77.

BOOK CHAPTERS & REVIEWS

Evangelista, P. M.A. Crall and E. Bergquist. (*In Press*). Effects of coal-bed methane development on native and non-native plants, and soil chemistry. *In*: Naugle, D., editors. Energy Development and Natural Resource Management.

Crall, A. W., T.J. Stohlgren, D.A. Guenther, and **P.H. Evangelista**. (2008). Natural variation in diversity and invasion patterns. . *In*: van Riper III, C., M. Sogge, editors. The Colorado Plateau III: cultural, biological, and physical research. Tucson, AZ: The University of Arizona Press. p 287-306.

Evangelista, P. Swartzinski and B. Waltermire. (2007). A profile of the mountain nyala (*Tragelaphus buxtoni*). African Indaba 5(2) – Special Report. 48pp.

Evangelista, P., D. Guenther, T.J. Stohlgren and S. Stewart. (2003). Fire effects on cryptobiotic soil crusts in the Grand Staircase-Escalante National Monument, Utah. *In*: van Riper III, C., K. L. Cole, editors. The Colorado Plateau: cultural, biological, and physical research. Tucson, AZ: The University of Arizona Press. p 121-128.

Guenther, D.A., T.J. Stohlgren and **P. Evangelista**. (2003). Relict sites compared to grazed landscapes in the Grand Staircase-Escalante National Monument, Utah. *In*: van Riper III, C., K. L. Cole, editors. The Colorado Plateau: cultural, biological, and physical research. Tucson, AZ: The University of Arizona Press. p 153-162.

TECHNICAL REPORTS NON-REFEREED PAPERS

Boone, R., D. Swift, **P. Evangelista**, J. Taylor, and E. Hollowed (*In Review*). Developing a Resource Management and Monitoring Protocol for Areas of Colorado with Extensive Energy Extraction. *In*: Resource Management Plan Amendment, Bureau of Land Management, White River Field Office, CO. 48pp.

Evangelista, P., D. Barnett, T.J. Stohlgren, P. Stapp, C. Jarnivich, S. Kumar, and S. Rauth. (2009). Field and Costs Assessment for the Fundamental Sentinel Unit (FSU) at the Central Plains Experimental Range, Colorado. Technical Report for National Ecological Observatory Network (NEON), Inc. Boulder, CO. 98pp.

Gass, T., S. Kumar and **P. Evangelista**. (2009). Ponderosa pine in the interior west: current condition and land management legacies. Technical Report for the U.S. Department of Agriculture, Forest Service, Missoula, MT. 106pp.

Kalkhan, M., T.J. Stohlgren, J. Schnase, J. Morisette, J. Pedelty and **P. Evangelista**. (2008). Fingerprinting native and non-native biodiversity in the United States: Phase I-the western U.S. Technical Report for National Aeronautics and Space Administration (NASA), Goddard Space Flight Center, Greenbelt, MD. 78pp.

Evangelista, P. (2008). Range and habitat of the mountain nyala (*Tragelaphus buxtoni*): 2008 update and review. Technical Report for the World Conservation Union (IUCN) Antelope Specialist Group. 35pp.

Evangelista, P. (2006). Range and distribution of the mountain nyala (*Tragelaphus buxtoni*): Technical Report to the Ethiopian Wildlife Conservation Department, Addis Ababa, Ethiopia. 40pp.

Evangelista, P. (2006). Status Report of the mountain nyala (*Tragelaphus buxtoni*). Technical Report for the World Conservation Union (IUCN) Antelope Specialist Group. 12pp

Evangelista, P. (2005). Status of the mountain nyala in the Arsi Mountains, Ethiopia. In: Malcolm, J, editor. The range and status of the mountain nyala (2004). Technical Report for the Ethiopian Wildlife Conservation Department, Addis Ababa, Ethiopia. 39pp.

Bergquist, E., **P. Evangelista** T. Stohlgren, and N. Alley. (2004). Invasive species and coal bed methane development in the Powder River Basin, Wyoming. Technical Report for the US Geological Survey, Fort Collins Science Center. 28pp.

Waters, M. A., T. J. Stohlgren, **P. Evangelista**, D. Guenther, N. Alley, G. J. Newman, editors. (2004). Landscape-Scale Assessment of Grand Staircase-Escalante National Monument. Technical Report for the Bureau of Land Management, Kanab, UT. 205pp.

NON-REFEREED PAPERS AND ARTICLES

Evangelista, P. (2009). Population estimates of the mountain nyala: 2008 update and review. Gnusletter, Antelope Specialist Group, The World Conservation Union (IUCN), Vol. 27(2).

Evangelista, P. (2008). Mountain nyala – beyond the trophy. African Sporting Gazette, 14(1), Future Publishing, South Africa.

Evangelista, P. (2007). Mountain nyala populations: defining the facts and unknowns. African Indaba, Vol. 5(6). <http://www.africanindaba.co.za/index.htm>

Evangelista, P. (2006). Der Bergnyala-ein bedrohther Endemit aus den athiopischen Bergen (The Mountain nyala – an endemic antelope to Ethiopia). ZGAP Mitteilungen, Zoologische Gesellschaft fur Arten – und Populationsschutz (Zoological Society for the Conservation of Species and Populations), Bielefeld, Ger.

Evangelista, P. (2006). Mountain nyala populations on the rise. African Indaba, Vol. 4(5). <http://www.africanindaba.co.za/index.htm>