

Kimberley Taylor

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EDUCATION

Montana State University, Bozeman, MT

PhD Ecology and Environmental Science (*In progress*); GPA 4.0; Anticipated completion: December, 2015.

Williams College, Williamstown, MA

Bachelor of Arts, June 2008; Magna Cum Laude, GPA: 3.79

Major: Biology; Concentration in Environmental Studies

Honors Thesis: "Enhancement of Pollination by Floral Features"

School for International Training, Quito, Ecuador

Study abroad spring 2007. Conservation and comparative ecology program.

RESEARCH EXPERIENCE

Montana State University

2011 – present

Weed and Invasive Plant Ecology and Management Lab

Graduate Research Assistant (Drivers of *Pinus contorta* invasions and feedbacks with fire)

Universidad de Concepcion

2014

Laboratorio de Invasiones Biológicas

Visiting student researcher (Drivers and impacts of *Pinus contorta* invasions in Patagonia)

Montana State University

2009 –2011

Weed and Invasive Plant Ecology and Management Lab

Research Assistant (Vehicle based weed seed dispersal; Invasive plant distributions)

University of California Berkeley

2008

Fire Science Lab

Forestry Research Technician (Stand and fuel inventory; Forest health/tree mortality study)

Williams College

2007

Department of Biology

Botany Research Assistant (Rare plant monitoring; Pollinators of *Cornus canadensis*)

PUBLICATIONS

Taylor K, Maxwell BD, Pauchard A, Nuñez M, Peltzer DA, Terwei A, and Rew LJ. *Under review*. Drivers of plant invasion vary globally: evidence from pine invasions within six ecoregions.

Taylor K, Brummer T, Rew LJ, Lavin M and Maxwell BD (2014) *Bromus tectorum* response to fire varies with climate conditions. *Ecosystems*.17: 960-973.

Taylor K, Brummer T, Taper ML, Wing A, and Rew LJ (2012) Human mediated long distance dispersal: an empirical evaluation of seed dispersal by vehicles. *Diversity and Distributions*. 18: 942-951.

Rew LJ, Maxwell BD, Lavin M, Brummer T and **Taylor K** (2012) Survey, Monitoring and Predicting the

Occurrence and Spread of Native and Non-Native Plant Species at Idaho National Laboratories. Final report to Stoller Gonzales LLC and Department of Energy. May 2012. pp. 35.

Taylor K, Pollnac F, Brummer T, Mangold J and Rew LJ (2011) Washing vehicles to prevent weed seed dispersal. MontGuide MT201106AG Montana State University,
<http://msuextension.org/publications/AgandNaturalResources/MT201106AG.pdf>

Taylor K, Mangold J and Rew LJ (2011) Weed seed dispersal by vehicles. MontGuide MT201105AG Montana State University.
<http://msuextension.org/publications/AgandNaturalResources/MT201105AG.pdf>

PRESENTATIONS

Lavin M, **Taylor K**, Brummer TJ, Maxwell BD and Rew LJ. (2015) Climate strongly controls *Bromus tectorum* dominance in unburned sagebrush steppe. *Northwest Scientific Association Annual Conference*, April 1 – 4, Pasco, WA.

Taylor K, Maxwell BD, Lavin M, Brummer T, Pauchard A, and Rew LJ. (2015) Spatial patterns of plant invasions vary at multiple scales. *Montana Weed Control Association Annual Meeting*, January 13-15, Great Falls, MT. [Invited]

Taylor K and Maxwell BD. (2014) Impact of *Pinus contorta* invasions on fuel, fire effects, and plant communities in Patagonia and New Zealand. *Large Wildland Fires Conference*, May 19-23, 2014, Missoula, MT.

Taylor K, Brummer T, Rew LJ, Lavin M and Maxwell BD. (2014) Climate drives *Bromus tectorum* positive feedback with fire. *Weed Science Society of America*, February 3-6, 2014, Vancouver, Canada.

Maxwell BD, **Taylor K**, Brummer TJ, Rew LJ, Lavin M, Pauchard A, Peltzer D, Whitlock C, McWethy D, and Nuñez M (2014) Past and future role of wildfire, humans and climate in nonindigenous plant invasions. *Weed Science Society of America*, February 3-6, 2014, Vancouver, Canada.

Taylor K, Maxwell BD, Pauchard A and Peltzer D. (2013) Biogeographical study of *Pinus contorta* invasions in the Greater Yellowstone Ecosystem, Chilean Patagonia, and South Island, New Zealand. *Montana Society for Conservation Biology Annual Symposium*, November 6-8, 2013, Bozeman, MT.

Taylor K, Maxwell BD, Pauchard A, Peltzer D, and Ledgard N. (2013) Comparison of *Pinus contorta* invasion in Patagonia, Chile and South Island, New Zealand. *Montana Institute on Ecosystems Summit*, August 22-23, 2013, Helena, MT.

Taylor K, Brummer T, Rew LJ, Lavin M and Maxwell BD. (2013) Climate drives *Bromus tectorum* positive feedback with fire. Land Resources and Environmental Sciences Research Colloquium, April 16, 2013, Bozeman, MT.

Taylor K, Rew LJ, Pauchard A and Maxwell BF (2013) Lodgepole pine invasions in Chilean Patagonia. *Montana Weed Control Association Annual Meeting*, January 16-17th 2013, Great Falls, MT. [Invited]

Rew LJ, **Taylor K**, Brummer T, Pollnac F and Balbach HE (2012) Seed movement by vehicles: how do we use this information to inform management? *11th Biennial Scientific Conference on the Greater Yellowstone Ecosystem – Great Yellowstone in transition: linking science and decision making*. October 8-10th, 2012, Mammoth Hot Springs, WY.

Taylor K, Maxwell B, and Pauchard A (2012) Drivers of *Pinus contorta* invasion in Patagonia, Chile. Poster Presentation. *The Ecological Society of America Annual Meeting*, August 6-10, 2012 Portland, Oregon.

Taylor K, Maxwell B, and Pauchard A (2012) Drivers of *Pinus contorta* invasion in Chilean Patagonia. Land Resources and Environmental Sciences Research Colloquium, April 12, 2012, Bozeman, MT.

Rew L, Wing A, **Taylor K**, and Maxwell BD (2011) Secondary seed dispersal by vehicles: simulating colonization on a heterogeneous landscape. *Weed Science Society of America*, February 7-10, 2011. Portland, OR.

- Rew LJ, **Taylor K**, Wing A, Brummer T, and Pollnac F. (2011). Seed movement by vehicles: how many, how far, and under what conditions? *Montana Weed Control Association Annual Meeting*. January 11th 2011, Great Falls, MT. (Presenter)
- Wing A, **Taylor K**, and Rew LJ (2010) Vehicles as a vector of plant seed dispersal: quantifying seed loss over distance. 2nd Conference on Invasive Species in Natural Areas. October 25-29, 2010. Coeur D'Alene, ID.

AWARDS

National Science Foundation Graduate Research Fellowship Program Honorable Mention 2012
Magna cum laude - Williams College 2008
Phi Beta Kappa – Williams College 2008
Sigma Xi – Williams College 2008
Highest Honors in Biology – Williams College 2008
Henry A. Dwight Botanical Prize – Williams College 2008
Environmental Committee Award – Williams College 2007
Kershaw Alumni Sponsored Internship Grant – Williams College 2006
Presidential Scholar Award 2004

TEACHING EXPERIENCE

Montana State University

Department of Land Resources and Environmental Sciences

Teaching Assistant, Restoration Ecology, 2014

Teaching Assistant, Biodiversity Methods, 2012, 2013

Teaching Assistant, Weed Ecology & Management, 2011

Ecology Project International

Provencia Limon, Costa Rica

High School Course Instructor Tropical Ecology; Sea Turtle Biology and Conservation, 2009

Williams College

Department of Biology

Teaching Assistant, Field Botany and Plant Natural History, 2008

Teaching Assistant, Ecology, 2007

FADCANIC Pearl Lagoon Academy of Excellence

Pearl Lagoon, Nicaragua

Teacher, Elementary school environmental education, reading and computer, 2006

Guest Lectures

2014 Montana State University, Restoration Ecology: *Grassland restoration*

Montana State University, Weed Ecology and Management: *Weed dispersal and range expansion*

Chief Dull Knife College, *Fire ecology and history in the Western USA and Forestry field methods*

2012 Montana State University, Weed Ecology and Management: *Weed dispersal and range expansion*

Undergraduate Mentoring

Montana State University Undergraduate Scholars Program, 2013

Liz Hummelt The role of mycorrhizae in lodgepole pine invasion

Montana Institute on Ecosystems Undergraduate Internships, 2013

Funding

2015 Montana Institute on Ecosystems Graduate Enhancement Funding (\$750)

2014 Montana Institute on Ecosystems Graduate Enhancement Funding (\$500)

2013 Montana Institute on Ecosystems Graduate Enhancement Funding (\$750)

Service and Outreach Activities

McWethy D, and **Taylor K.** (2014) Human-fire-climate interactions in Patagonia. Outreach at the National Outdoor Leadership School Patagonia branch. January 16, 2014, Coyhaique, Chile.

Montana State University Land Resources and Environmental Sciences Graduate Student Organization, Bozeman, MT, *Co-chair*, 2012 – 2013