

Curriculum vitae

Marit L. Wilkerson, PhD

www.maritwilkerson.com

Department of Plant Sciences
University of California
Davis, CA 95616

mlwilkerson@ucdavis.edu
(940) 390-4984

CURRENT POSITION

Sept 2013- **Research Associate**, Dept. of Plant Sciences, UC Davis. PI: Truman P. Young.
Aug 2014 *Duties include: Conservation outreach projects; revisions and submissions of academic papers to peer-reviewed journals; researcher profile video shorts*

EDUCATION

PhD **University of California, Davis**, Graduate Group in Ecology, 2007-2013
Dissertation advisor: Truman P. Young
Dissertation title: "Invasive plants in conservation linkages: from conceptual model to understanding real-world patterns"
Conservation Management training certificate, completed in 2011

BS/BA **University of Texas, Austin**, Biology with a focus in Ecology, Evolution & Behavior/Plan II Honors, both with highest honors, 2002-2006

RESEARCH

2014 Urban conservation and ecosystem services, Brisbane, QLD, Australia
2010-2013 Matrix effects on invasive plants in large-scale conservation linkages, Riverside and San Diego Counties, CA
2010-2012 Content analysis and targeted interviews for Lacher & Wilkerson 2013 and Blickley et al. 2013
2009-2013 Landscape ecology of invasive plants in agricultural hedgerows, Yolo County, CA
2009-2011 Climate change vulnerability analysis, Willamette Valley, OR
2008-2013 Restoration of native forbs for pollinator services, Yolo County, CA
2007-2012 Trophic interactions in working landscape, Laikipia District, Kenya
2005 Demographic study of invasive plant, *Alliaria petiolata*, Harvard Forest, MA

PUBLICATIONS

Wilkerson, ML. 2014. Using hedgerows as model linkages to examine non-native plant patterns. *Agriculture, Ecosystems, and Environment* 192: 38-46

Lacher, I* & **ML Wilkerson.** 2013. Wildlife connectivity approaches and best practices in U.S. State Wildlife Action Plans. *Conservation Biology* 28: 13-21 *Authors contributed equally.

Wilkerson, ML. 2013. Invasive plants in conservation linkages: A conceptual model that addresses an underappreciated conservation issue. *Ecography* 36: 1319-1330.

Wilkerson, ML, LM Roche & TP Young. 2013. Indirect effects of domestic and wild herbivores on pollinators in an African savanna. *Ecology and Evolution* 3: 3672-3682

Marit Wilkerson
Curriculum vitae

Blickley, J*, K Deiner, K Garbach, I Lacher, M Meek, LM Porensky, **ML Wilkerson**, E Winford & MW Schwartz. 2013. Graduate students' guide to necessary skills for nonacademic conservation careers. *Conservation Biology* 27: 24-34. *First 8 authors contributed equally

Riginos, C, LM Porensky, KE Veblen, WO Odadi, RL Sensenig, D Kimuyu, F Keesing, **ML Wilkerson** & TP Young. 2012. Lessons on the relationship between livestock husbandry and biodiversity from the Kenya Long-term Exclosure Experiment (KLEE). *Pastoralism: Research, Policy and Practice* 2:10

Schwartz, MW*, K Deiner, T Forrester, P Grof-Tisza, MJ Muir, MJ Santos, LE Souza, **ML Wilkerson** & M Zylberberg. 2012. Perspectives on the Open Standards for the practice of conservation. *Biological Conservation* 155: 169-177. *All authors after first contributed equally

Z Steel, **ML Wilkerson**, P Grof-Tisza & K Sulzner. 2011. Assessing species and area vulnerability to climate change for the Oregon Conservation Strategy: Willamette Valley Ecoregion. Report for Defenders of Wildlife and Oregon Department of Fish and Wildlife. (Accessed: April 2014)
http://www.defenders.org/resources/publications/programs_and_policy/gw/assessing_species_and_area_vulnerability_to_climate_change_for_the_oregon_conservation_strategy_willamette_valley_ecoregion.pdf

Vaughn, KJ, LM Porensky, **ML Wilkerson**, J Balachowski, E Pepper, C Riginos, and TP Young. 2010. Restoration Ecology. *Nature Education Knowledge* 1(8):66.

PROVISIONALLY ACCEPTED MANUSCRIPT

Wilkerson, ML, K Ward, K Ullmann, N Williams & TP Young. In review. Diminishing returns from higher density restoration seedings suggest tradeoffs in pollinator seed mixes. *Restoration Ecology*.

FULLY PREPARED MANUSCRIPTS

Wilkerson, ML. In prep. Invasive plants in conservation linkages: how matrix, edge effects, and species dispersal mode matter. To be submitted to *Landscape Ecology*.

Fuller, RA, DF Shanahan, CD Ives, S Kark, N Levin & **ML Wilkerson**. In prep. Can urban habitats ever be a conservation priority? To be submitted to *Conservation Letters*.

K Parris*, M Amati, S Bekessy, D Dagenais, O Fryd, AK Hahs, D Hes, SJ Imberger, SJ Livesley, AJ Marshall, J J Rhodes, C Threlfall, R Tingley, C Walsh, R Van Der Ree, **ML Wilkerson** & NS Williams. In prep. The seven lamps of biodiverse cities: towards a common understanding between ecologists and practitioners in the urban environment. To be submitted to *Landscape and Urban Planning*

*Authors after first listed alphabetically

FELLOWSHIPS and GRANTS

2014	Centre of Excellence for Environmental Decisions Early Career Researcher Grant, \$7400
2009-2012	National Science Foundation (NSF) Graduate Researcher Fellowship, \$90,000 + tuition
2008-2012	Jastro Shields Research Fellowship, UC Davis, 3 awards, total \$3645
2008, 2012	Humanities Graduate Research Award, UC Davis, 2 awards, total \$3000
2008-2012	Plant Sciences' Madson Scholarship, UC Davis, 4 separate awards, total \$4000
2008, 2011	Northern California Botanists' student research award, 2 awards, total \$2000

Marit Wilkerson
Curriculum vitae

2008-2013 Plant Sciences Fellowship, UC Davis, 1 award for 8 academic quarters, \$35,000 + tuition
2007, 2008 Graduate Group in Ecology block grant, UC Davis, 2 awards, total \$21,600 + tuition
2002-2006 National Merit Scholarship, 4-year tuition for UT Austin

AWARDS and HONORS

2011 Spurr Service Award, Graduate Group in Ecology, UC Davis
Presented to a currently enrolled student for outstanding accomplishment in outreach
2011 Niering Award for Best Student Presenter, 4th World Conf. on Ecological Restoration
2009 Directors' Award for best poster presentation, California Native Grass Association/
Society for Ecological Restoration-California conference
2006 Dean's Honored Scholar for Natural Sciences, UT Austin
Awarded to .1% of graduating class
2006 Joynes Award for Creative Thesis for Plan II Honors, UT Austin

PAST EMPLOYMENT

Mar-May 2007 **Research Assistant**, Johnson's Bayou, LA, PhD project of Zoltan Nemeth, University of S. Mississippi.
Assisting bird migration monitoring at long-term banding site, inc. running nets, identifying species, data entry, insect surveys

June-Sept 2006 **Seasonal Biological Technician**, Petrified Forest National Park, AZ.
Managed reptile and amphibian monitoring, inc. statistical analysis; In charge of prairie dog surveying and monitoring, inc. redesigning official park protocol and statistical analysis

May-Aug 2005 **Research Experience for Undergraduates (REU) intern**, NSF-funded, Harvard Forest, MA.
*Collecting data on reciprocal transplant plots of invasive garlic mustard, *Alliaria petiolata*; Designing and implementing region-wide demographic study of *A. petiolata* populations in Western Massachusetts*

May-Aug 2004 **Student Conservation Association (SCA) intern**, SCA-funded, Wichita Mountains National Wildlife Refuge, OK.
Assisting with biologists' work, inc. ground-truthing for Refuge-wide vegetation map, GIS mapping, water testing, cowbird trapping, and prairie dog transplants; Taught Environmental Education classes; Staffed the Visitor Center

SKILLS

Field/Lab: field research skills, inc. ability to use compass, topo maps, and GPS units; advanced plant ID skills; knowledge of different small vertebrate population monitoring methods; basic knowledge of laboratory equipment and maintenance

Technical:

Statistical packages: extensive experience with statistical packages JMP 9, CANOCO 4.56, and SAS; past experience with MATLAB 6.5 and SPSS 13.0; basic knowledge of R programming language

Marit Wilkerson
Curriculum vitae

Other programs: extensive experience with ArcGIS 10, Miradi, Microsoft PowerPoint, Word, and Excel; past extensive experience with Map Source, GAP Light Analyzer and BoxCarPro; basic knowledge of Marxan

Other: advanced Spanish skills (writing, reading, and speaking); basic Hebrew skills (reading and speaking); basic cinematography skills; experience in rigorous survey and interview techniques

PROFESSIONAL AFFILIATIONS

Member of: Ecological Society of America & Society for Conservation Biology

REVIEWER for *Conservation Biology* journal

SERVICE

- | | |
|-----------------|--|
| 2012-present | Conference Coordinator , Society for Conservation Biology Chapters Committee
<i>Organizing chapter-specific events (mixers, business meetings, talks, posters, etc.) at international and regional conferences; organized workshop at ICCB 2013 and symposium at NACCB 2014; co-chaired administration of Chapter Awards and volunteers at ICCB 2013, NACCB 2014, & SCBO 2014</i> |
| 2010-2012 | President , Society for Conservation Biology-Davis chapter, member since fall 2007, Secretary 2008-2009, Vice-President 2009-2010.
<i>Organizing quarterly meetings, overseeing progress and activity of subcommittees, formed partnership with non-profit Cool Davis Initiative, co-organizer for public education seminar initiative in summer 2011. Started position of Volunteer Coordinator in 2008, co-committee chair for fundraising and donations for Bay Area Conservation Biology annual meeting 2008</i> |
| 2010-2012 | Executive Planning Committee member for North American Congress for Conservation Biology 2012.
<i>Voting and decision-making input on all major concept and logistic steps of symposium organization process; part of Student Activities and Chapter Activities sub-committees; building local volunteer base</i> |
| 2009-2012 | Co-founder and member , Davis Student Chapter of California-Invasive Plant Council (CAL-IPC).
<i>Represent parent organization at local events; developed "Don't Plant a Pest" fact sheets for California Native Plant Society's Gardening Committee; spread awareness of invasive plant issues through lobbying and informational pieces</i> |
| 2008-2012 | Group mentor , Student and Landowner Education and Watershed Stewardship (SLEWS), Center for Land-Based Learning.
<i>Mentoring high-school students on restoration projects; involves teaching basic planting skills, restoration science, and an appreciation for the outdoors</i> |
| 2008, 2011-2013 | Reviewer for Graduate Group in Ecology admissions. |

PRESENTATIONS

Wilkerson, ML 2014. Invited speaker. Forgotten pieces: the state of wildlife linkage planning in the U.S. Dept. of Wildlife & Entomology seminar series, University of Delaware, Newark, DE.

Wilkerson, ML 2014. Guest lecture. Location, location, location: How socio-economic context impacts valuation of ecosystem services. Environmental Decisions Group seminar series, Commonwealth Scientific and Industrial Research Organisation office, Brisbane, QLD, Australia.

Wilkerson, ML 2014. Invited speaker. Context matters: socio-demographics influence ecosystem service delivery. School of Agricultural and Resource Economics/Australia Agricultural and Resource Economics Society seminar series, University of Western Australia, Perth, WA, Australia.

Wilkerson, ML 2013. Poster presentation. Invasive plants in the conservation linkage? How matrix, edge effects, and species dispersal mode matter. 26th International Congress for Conservation Biology (ICCB), Baltimore, MD.

Wilkerson, ML*, K Ward, N Williams, K Ullmann & TP Young. 2013. Oral presentation. Rewilding Central Valley field margins with native forbs. 20th Annual Conference of the California Society for Ecological Restoration, Santa Barbara, CA.

Wilkerson, ML 2012. Oral presentation. A conceptual model and framework for addressing the unaddressed issue of invasive plants in conservation linkages. 97th Annual Meeting of the Ecological Society of America (ESA), Portland, OR.

Wilkerson, ML 2011. Oral presentation. Invasive plants in conservation linkages: what have we been overlooking? 25th ICCB, Auckland, New Zealand.

Wilkerson, ML 2011. Oral presentation. The importance of landscape context in invasive plant patterns within conservation linkages. 20th California-Invasive Plant Council Symposium (Cal-IPC), Tahoe City, CA.

Wilkerson, ML*, K Ullmann, C Kremen & TP Young. 2011. Award-winning oral presentation. Planting California hedgerows: native forb mix success at different densities. 4th World Conference on Ecological Restoration, Mérida, Mexico.

Wilkerson, ML 2011. Oral presentation. The role of the surrounding landscape matrix in invasion of conservation linkages by non-native plants. 96th Annual Meeting of the ESA, Austin, TX.

Steel, Z*, P Grof-Tisza*, K Sulzner & **ML Wilkerson***. 2011. Group oral presentation. Assessing species vulnerability to climate change in the Willamette Valley ecoregion. Bay Area Conservation Biology Symposium (BACBS), University of California, Berkeley, CA.

Wilkerson, ML 2010. Oral presentation. Downsides to landscape connectivity: examining plant invasion potential in conservation linkages. 95th Annual Meeting of the ESA, Pittsburgh, PA.

Wilkerson, ML 2010. Guest lecture. Upsides and downsides of conservation linkages. Conservation Biology Seminar Series, EVE 198 UC Davis.

Marit Wilkerson
Curriculum vitae

Wilkerson, ML 2010. Oral presentation. Downsides to landscape connectivity: examining plant invasion potential in conservation linkages. BACBS, San Francisco State University, San Francisco, CA.

Wilkerson, ML 2010. Invited speaker. Downsides to corridors: examining plant invasion potential in linear biodiversity features. 3rd Annual Symposium presented by Northern California Botanists, California State University, Chico, CA.

Wilkerson, ML* & TP Young. 2009. Oral presentation. Indirect effects of domestic and wild herbivores on pollinators in an African savanna. 2nd Annual UC Davis Graduate Student Symposium in Ecology, UC Davis.

Wilkerson, ML*, K Ullmann, C Kremen & TP Young. 2009. Poster presentation. What to plant in Central Valley hedgerows: relative success of three native flowering forb mixes at three densities. California Native Plant Society Conservation Conference, Sacramento, CA; California Native Grass Association/Society for Ecological Restoration-California dual annual meeting, Folsom, CA; 94th Annual Meeting of the Ecological Society of America, Albuquerque, NM.

Wilkerson, ML* & TP Young. 2008. Poster presentation. Indirect effects of domestic and native herbivores on pollinators in an African savanna. 93rd Annual Meeting of the ESA, Milwaukee, WI.

OUTREACH ACTIVITY

"Science communication through film." 2014. **Invited speaker** for graduate-level science communication seminar series, University of Delaware, Newark, DE.

"Weeds in your hedgerows? Actions to consider." 2013. 2-part article published in Colusa County Conservation, Colusa County Resource Conservation District **quarterly newsletter**. Volume 3: 4 & 5.

Factsheets for hedgerow research projects (invasive plants and native forbs). 2013. Emailed or mailed to all private landowners involved in hedgerow research and local Resource Conservation District, National Resource Conservation Services, and Audubon California offices.

<http://maritwilkerson.com/outreach-and-service/general/>

"Invasive plants and conservation linkages: missing pieces of the conservation puzzle." Dec, 2012. **Invited speaker** at the monthly Riverside County land managers meeting, Riverside, CA.

"Advice for getting your dream job in conservation science." 2012. K Deiner, ML Wilkerson & LM Porensky. **Blog post** entry on popular website about graduate skills paper (Blickley et al. 2013). <http://conservationbytes.com/2012/12/04/advice-for-getting-your-dream-job-in-conservation-science/>

"Role of science and scientists in collaborative conservation decision-making and planning: a workshop in skill development." 2011. Co-organized with another grad student and two staff members of John Muir Institute for the Environment. 2-day evening **workshop** with 15 grad students, UC Davis campus.

"Climate Change and Conservation." 2011. Co-organizer and presenter of Conservation Connoisseur Seminar Series. 2-part **public seminar** held at Davis City Library.

“Assessing species and reserve vulnerability to climate change in the Willamette Valley ecoregion.” 2011. Led workshop organization with Art Martin and key partners from Oregon Dept. of Fish and Wildlife and Defenders of Wildlife; a half-day **workshop** on Conservation Management project results for local stakeholders. Presentations by Z. Steel, M.L. Wilkerson & P. Grof-Tisza. ODFW headquarters, Salem, OR.

“Outreach: Broader Impacts Resource Portal.” 2011. Co-author/creator. **Online outreach module** with guidelines for developing outreach plans for dissertation research with an emphasis on involving underrepresented groups. <http://ecology.ucdavis.edu/outreach>.

“Downsides to landscape connectivity: examining plant invasion potential in conservation linkages.” Nov, 2010. **Invited speaker** at the monthly Riverside County land managers meeting, Riverside, CA.

“Ecological Restoration Workshop.” 2009. Co-organized with three other graduate students and two professors. Daylong **workshop** with invited, sponsored speakers and approx. 50 attendees, UC Davis campus.

Wrote and hard- mailed **report updates** for private landowners and Audubon California staff involved in forb restoration project in Yolo County, California, 2008, 2009.

“Butterflies and blooms: contrasting effects of cattle and wildlife.” 2008. ML Wilkerson & TP Young. “KLEE Corner” #10, Laikipia Wildlife Forum **Newsletter**. May Issue.

OUTREACH and COMMUNICATIONS TRAINING

- | | |
|--------------|---|
| July 2013 | Half-day workshop at International Congress for Conservation Biology: “New media matters: communicating conservation research & ideas.” Led by Dr. Kate Christen of Smithsonian-Mason School of Conservation. Held in Baltimore, Maryland. |
| Spring 2012 | Translating Research Beyond Academia seminar series: “Communicating with Stakeholders and Decision and Policy Makers.” Sponsored by Environmental Leaders Program of John Muir Institute for the Environment (JMIE). UC Davis course. |
| Dec 2011 | 1-day workshop at International Congress for Conservation Biology 201: “Involving People in Conservation: the role of human dimensions research and applied approaches.” Led by Dr. A. Bath of Memorial University Canada. Held in Auckland, New Zealand. |
| Fall 2011 | Translating Research Beyond Academia seminar series: “Education Outreach and Broader Impacts.” Sponsored by JMIE. UC Davis course. |
| Winter 2011 | Translating Research Beyond Academia seminar series: “Science Communication and Writing.” Sponsored by JMIE. UC Davis course. |
| October 2010 | Week-long immersion workshop with ScienceFilm to learn technical and creative basics of scientific documentary film-making. Held at Bodega Marine Lab, Bodega Bay, CA. |
| Spring 2009 | Student participatory seminar: “Broader Impacts.” Sponsored by Graduate Group in Ecology. UC Davis course. |

Marit Wilkerson
Curriculum vitae

REFERENCES

Truman Young
Department of Plant Sciences, UC Davis

tpyoung@ucdavis.edu
530-754-9925

Richard Fuller
School of Biological Sciences, University of Queensland

r.fuller@uq.edu.au
+61 7 3346 9912

John Randall
Lead Scientist for Southern California, The Nature Conservancy

jrandall@tnc.org
619-209-5830

Mark Schwartz
Dep. of Environmental Science & Policy, UC Davis
Director of John Muir Institute of Environment

mwschwartz@ucdavis.edu
530-752-0671