JANNEKE HILLE RIS LAMBERS

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RESEARCH INTERESTS

Anthropogenic impacts on plant communities (e.g. climate change, invasions)

Biotic and abiotic determinants of species range limits

Species coexistence

Statistical methods in ecology (maximum likelihood, Bayesian statistics)

POSITIONS

2011-present: Associate Professor, Department of Biology, University of Washington, Seattle.

2006-2011: Assistant Professor, Department of Biology, University of Washington, Seattle.

2004-2006: Post-doctoral Research Associate, University of California, Santa Barbara. Mechanisms leading to Mediterranean annual grass dominance in California grasslands, niche and neutral controls over diversity. Advisor: Dr. Jonathan Levine.

2001-2004: Post-doctoral Research Associate, University of Minnesota. Effects of elevated CO_2 and nitrogen deposition on seed production of perennial grasses and forbs; research on the relationship between diversity and ecosystem function. Advisor: Dr. David Tilman.

1993: Research Assistant, Mountain Lake Biological Station, Virginia. Research on the population dynamics of relict *Tsuga canadensis*. Advisor: Dr. H.H. Shugart.

EDUCATION

2001: Ph.D., Department of Biology, Duke University. Title: "Dormancy, dispersal and density-dependent mortality: coexistence of temperate forest tree species". Advisor: James S. Clark; Committee members: Janis Antonovics, David Higdon, Bill Schlesinger, Dean Urban.

- Katherine Stern Dissertation Fellowship, Duke University
- Sigma Xi Sally Schrader Travel Grant
- Sigma Xi Grants-In-Aid of Research
- Lawrence Giles Phytotron Award, Duke University
- James B. Duke Fellowship, Duke University

1995: Masters courses, Wageningen University, the Netherlands.

1994: B.A., Department of Environmental Sciences, University of Virginia.

- Graduated with highest honors
- Environmental Science Ecology Award (Best Ecology student)
- NSF Research Experience for Undergraduates, Mountain Lake Biological Station.
- Echols Scholar (University of Virgina)

1990: International Baccalaureate diploma, International School Manila, the Philippines.

GRANTS (sole PI unless otherwise indicated)

2014: National Science Foundation REU Supplement ($6,500).

2013-2014: National Aeronautics and Space Administration Earth Science Applications "Snow, Montane Wildflowers, and Citizen Scientists" ($189,248; co-PI w/ Jessica Lundquist & Regina Rochefort). Stage I funding; eligible to apply for 3 years of Stage II funding in 2015.

2012: National Science Foundation REU Supplement ($7,500).

2012-2014: National Science Foundation DDIG grant to Kevin Ford ($14,824).

2011-2016: National Science Foundation DEB 1054012 "CAREER: Life on the Edge: The effects of climate, competition and history on range limits" ($763,000).

2010-2012: National Science Foundation DDIG grant to Ailene Kane Ettinger ($14,197).

2009: National Science Foundation REU Supplement ($10,000).

2009-2011: Department of Energy - National Institute for Climate Change "The heat is on: forecasting range shifts of Pacific Northwest conifers with climate change" ($227,929).

2008-2009: University of Washington Royalty Research Fund "Climate, competition and tree growth: transient dynamics following climate change" ($39,545).

2008-2011: USDA CSREES "Importance of avian seed dispersal and herbivore control for agriculture and tropical forest structure on Guam" ($399,294; co-PI w/ Josh Tewksbury).

2008-2011: National Science Foundation DEB 0816465 "What is the fate of a silent forest" ($310,761; co-PI w/ Josh Tewksbury).

2007-2012: National Science Foundation DEB 0743183 "Niche and neutral controls over the coexistence of serpentine annual plants" ($390,000; collaborative grant w/ Jonathan Levine).

PUBLICATIONS ([1] graduate/undergraduate authors mentored; [2]equal contribution. All publications peer reviewed)

Harsch, M. & J. **HilleRisLambers**. Species distributions shift downward across Western North America. In press: *Global Change Biology*.

Yelenik S.G., B.P. Colman, Levine J.M., & J. **HilleRisLambers**. A mechanism for R*: plant and microbial nitrogen uptake and plant competition. In press: *PLos One.*

Borer, E. & 55 authors (including J. **HilleRisLambers**). 2014. Herbivores and nutrients control grassland plant diversity via light limitation. *Nature* 508(7497) 517-522.

Waters[1], S., S.E Fisher[1], & J. **HilleRisLambers**. 2014. Neighborhood-contingent indirect interactions between native and exotic plants: multiple shared pollinators mediate reproductive success during invasions. *Oikos* 123(4): 433-440.

Harsch, M., Y. Zhou, J. **HilleRisLambers** & M. Kot. 2014. Keeping pace with climate warming: the roles of generation time, dispersal ability, and life-history strategies. *The American Naturalist* 184:25-37.

HilleRisLambers, J, K. Ford[1], D. Haak[1], M. Horwith[1], A. Ettinger[1], B. Miner[1], H. Rogers[1], K. Sheldon[1], S. Water[1], S. Yang[1], & J. Tewksbury. 2013. Accidental experiments: ecological and evolutionary insights and opportunities derived from anthropogenic change. *Oikos* 122(12): 1649-1661.

PUBLICATIONS (CONT'D)

HilleRisLambers, J., K.R. Ford[1], A.K. Ettinger[1], E.T. Theobald[1], & M. Harsch. 2013. How will biotic interactions influence climate change-induced range shifts? *Annals of the New York Academy of Sciences* 1297: 112-125 (invited contribution for an NSF funded workshop on climate change and species interactions).

Ford[1], K.R., Ettinger[1], A.K., Lundquist, J.D., Raleigh, M.S. & J. **HilleRisLambers**. 2013. Spatial heterogeneity in climate variables at coarse and fine scales. *Plos One:* 8(6) e65008.

Caves[1] E., S. Kemp-Jennings[1], J. **HilleRisLambers**, J.J. Tewksbury and H.S. Rogers. The role of birds in forest regeneration: Dispersal of native seeds into secondary forest in the Mariana Islands. *Plos One* 8(5) e65618.

Ettinger[1], A.K & J. **HilleRisLambers**. 2013. Climate isn't everything: competitive interactions and variation by life stage will also affect range shifts in a warming world. *American Journal of Botany* 100(7): 1344-1355 (invited contribution to a special issue on global change).

HilleRisLambers, J.**,** P.B. Adler, W.S. Harpole, J. Levine, M. Mayfield. 2012. Rethinking community assembly through the lens of coexistence theory. *Annual Review of Ecology, Evolution and Systematics* 43: 227-238.

Ibanez, I., E.S. Gornish, L. Buckley, D.M. Debinski, J. Hellmann, B. Helmuth, J. **HilleRisLambers**, A.M. Latimer, A.J. Miller-Rushing, & M. Uriarte. 2012. Moving forward in global change ecology: capitalizing on natural variability. *Ecology & Evolution* 3(1): 170-181.

Rogers[1], H.S., J. **HilleRisLambers** & J.J. Tewksbury. 2012. 'Natural Experiment' demonstrates top down control of spiders by birds on a landscape level. 2012. *Plos One* 7(9): e43446. doi:10.1371/journal.pone.0043446.

O'Brien[1], A., A.K. Ettinger[1], & J. **HilleRisLambers**. 2012. Conifer growth and reproduction in urban forest fragments: predictors of future response of Pacific Northwest forests to global change? *Urban Ecosystems* 15(4): 879-891.

Adler, P.B. & 58 authors (including J. **HilleRisLambers**). 2011. Productivity is a poor predictor of plant species richness. *Science* 333: 1750-1753.

Ettinger[1], A.K., K.R. Ford[1] & J. **HilleRisLambers**. 2011. Climate determines upper, but not lower, range limits in Pacific Northwestern conifers. *Ecology* 92(6): 1323-1331.

Haak[1], D.C., J. **HilleRisLambers**, E. Pitre & S. Freeman. 2011. Increased structure and active learning reduce the achievement gap in introductory biology. *Science* 332: 1213-1216.

Firn, J. & 35 authors (including J. **HilleRisLambers**) 2011. Abundance of introduced species at home predicts abundance away in herbaceous communities. *Ecology Letters* 14: 274-281.

Schnitzer, S.A., J.N. Klironomos, J. **HilleRisLambers**, L.L. Kinkel, P.B. Reich, K. Xiao, M. Rillig, B.A. Sikes, R.M. Callaway, S.A. Mangan, E. van Nes, M. Scheffer. 2011. Soil microbes contribute to the classic plant diversity-productivity pattern. *Ecology* 92(2): 296-303.

Clark, J.S., D. Bell, C. Chu, B. Courbaud, M. Dietze, M. Hersh, J. **HilleRisLambers**, I. Ibanez, S. LaDeau, S. McMahon, J. Metcalf, J. Mohan, E. Moran, L. Pangle, S. Pearson, C. Salk, Z. Shen, D. Valle, P. Wyckoff. 2010. The individual variation required for forest diversity: a synthesis of evidence. *Ecol. Monographs* 80(10): 569-608.

PUBLICATIONS (CONT'D)

HilleRisLambers, J., S.G. Yelenik, B.P. Colman & J.M. Levine. 2010. California annual grass invaders: the passengers, not drivers, of change. *Journal of Ecology* 98: 1147-1156.

Levine, J.M. & J. **HilleRisLambers**. 2010. The maintenance of species diversity. *Nature Education* (invited submission) http://www.nature.com/scitable/knowledge/library/.

Adler, P.B., J.M. Levine & J. **HilleRisLambers**. 2009. Weak effect of climate variability on coexistence in a sagebrush steppe community. *Ecology* 90(12): 3303:3312.

Levine[2], J.M. & J. **HilleRisLambers**[2]. 2009. The importance of niches for the maintenance of diversity. *Nature* 461: 254-257.

HilleRisLambers, J., W.S. Harpole, S. Schnitzer, D. Tilman & P.B. Reich. 2009. CO_2, nitrogen and diversity differentially affect seed production of prairie plants. *Ecology* 90(7): 1810-1820.

Going[1], B.M., J.M. Levine and J. **HilleRisLambers**. 2009. Abiotic and biotic resistance to grass invasion in serpentine annual plant communities. *Oecologia* 159(4) 839-847.

Adler, P.B. & J. **HilleRisLambers**. 2008. The influence of climate and species composition on the population dynamics of ten prairie forbs. *Ecology* 89(11): 3049-3060.

Levine, J.M., P.B. Adler & J. **HilleRisLambers**. 2008. On testing the role of niche differences in stabilizing coexistence. *Functional Ecology* 22: 934-936.

Ibanez, I., J.S. Clark, S. Ladeau & J. **HilleRisLambers**. 2007. Exploiting temporal variability to understand tree recruitment response to climate change. *Ecol. Monogr* 77(2): 163-177.

Adler, P.B., J. **HilleRisLambers**, J.M. Levine. 2007. A niche for neutral theory. *Ecol. Letters* 10(2): 95-104.

Fargione, J., D. Tilman, R. Dybzinski, J. **HilleRisLambers**, C. Clark, W.S. Harpole, J.M.H. Knops, P.B. Reich, M. Loreau. 2007. From selection to complementarity: shifts in the causes of the biodiversity-productivity relationships in a long-term biodiversity experiment. *Proc. R. Soc. London, Ser. B*. 274(1611): 871-876.

Levine, J.M., E. Pachepsky, B. Kendall, J. **HilleRisLambers**, and S.G. Yelenik. 2006. Plant-soil feedbacks and invasive spread. *Ecol. Letters* 9:1005-1014.

Adler, P.B., J. **HilleRisLambers**, P.C. Kyriakidis, Q. Guan, J.M. Levine. 2006. Climate variability has a stabilizing effect on the coexistence of prairie grasses. *PNAS* 103 (34): 12793-12798.

HilleRisLambers, J., B. Aukema, J. Diez, M. Evans, & A. Latimer. 2006. Effects of global change on inflorescence production: a Bayesian hierarchical analysis (chapter 4 in "Hierarchical Modeling for the Environmental Sciences"; Oxford University press).

West, J.B., J. **HilleRisLambers** & T.D. Lee, S.E. Hobbie, P.B. Reich. 2005. Legume species identity and soil nitrogen supply determine symbiotic nitrogen-fixation responses to elevated atmospheric [CO_2]. *New Phytologist* 167: 523-530.

HilleRisLambers, J., & J.S. Clark. 2005. The benefits of seed banking for red maple (*Acer rubrum*): maximizing seedling recruitment. *Can. J. of For. Res*. 35: 806-813.

HilleRisLambers, J., J.S. Clark, & M. Lavine. 2005. Implications of seed banking for recruitment of southern Appalachian woody species. *Ecology* 86 (1): 85-95.

PUBLICATIONS (CONT'D)

HilleRisLambers, J., W.S. Harpole, D. Tilman, J. Knops & P.B. Reich. 2004. Mechanisms responsible for the positive diversity-productivity relationship in Minnesota grasslands. *Ecol. Letters* 7: 661-668.

Tilman, D., J. **HilleRisLambers**, W.S. Harpole, R. Dybzinski, J. Fargione, C. Clark & C. Lehman. 2004. Does metabolic theory apply to community ecology? It's a matter of scale. *Ecology* 85: 1797–1799.

Clark, J.S., J.S. McLachlan, J. **HilleRisLambers** & M. Lewis. 2003. Estimating population spread: what can we forecast and how well? *Ecology* 84(8): 1979-1988.

HilleRisLambers, J., & J.S. Clark. 2003. Effects of dispersal, shrubs, and density-dependent mortality on tree seed and seedling distributions. *Can. J. of For. Res*. 33 (5): 783-795.

HilleRisLambers, J., J.S. Clark, & B. Beckage. 2002. Density-dependent mortality and the latitudinal gradient in species diversity. *Nature*: 417:732-735.

Clark, J.S., B. Beckage, P. Camill, J. **HilleRisLambers**, J. Lichter, J.S. McLachlan, J. Mohan, & P. Wyckoff. 1999. Interpreting recruitment limitation in forests. *Am. J. of Bot*. 86:1-16.

Clark, J.S., M. Silman, R. Kern, E. Macklin, & J. **HilleRisLambers**. 1999. Seed dispersal near and far: generalized kernels across temperate and tropical forests. *Ecology* 80(5): 1475-1494.

PUBLICATIONS: IN REVISION, IN REVIEW & IN PREP

Kroiss, S. & J. **HilleRisLambers**. The importance of recruitment and microsite limitation for conifer regeneration in a warming world. In revision: *Ecology.*

HilleRisLambers, J., L.D.L. Anderegg[1], I. Breckheimer[1], K. Burns[1], A.K. Ettinger[1], K.R. Ford[1], S. Kroiss. Implications of climate change for turnover in forest composition. In review: *Northwest Science* (Invited Contribution).

Theobald[1], E.J., A.K. Ettinger[1], L. Berg, H. Burgess, H. Nelson, N. Schmidt, C. Wagner, J. **HilleRisLambers**, J. Tewksbury, & J. Parrish. Global change and local solutions: tapping the unrealized potential of Citizen Science for biodiversity research. In review: *Conservation Biology.*

Theobald[1], E.J., A. Crowe, J. **HilleRisLambers**, M. Wenderoth, S. Freeman. Women learn more from local than global examples of the biological impacts of climate change. In review: *Nature Climate Change.*

Yang[1], S.Y., A.R. Norman, J. **HilleRisLambers** & J.L. Ruesink. Positive feedback by eelgrass ecosystem engineering. In review: *Marine Ecology Progress Series*.

Chang, C. & J. **HilleRisLambers**. Trait and phylogenetic patterns reveal deterministic community assembly mechanisms on Mount St. Helens. In prep: *Journal of Ecology.*

Ford[1], K.R., I. Breckheimer[1], J. Franklin, J. Freund, S. Kroiss, A. Larson, E. Theobald[1] & J. **HilleRisLambers**. Size-specific trends in growth across tree species elevational ranges suggest complex impacts of climate change. In prep: *Canadian Journal of Forest Research*

Harsch, M. & J. **HilleRisLambers**. Range shifts and range reductions: multiple vulnerabilities to climate change. In prep: *Biological Conservation*.

PUBLICATIONS: IN REVISION, IN REVIEW & IN PREP (CONT'D)

Ettinger[1], A.K. & J. **HilleRisLambers**. Climate, competition, and source population influence elevational distributions. In prep.

HilleRisLambers, J. & J.M. Levine. Niche differences and fitness differences drive competitive coexistence and exclusion in a serpentine annual community. In prep.

Larson, A.J., J.A. Lutz, D.C. Donato, J.F. Frankin, J.A. Freund, M.E. Harmon, J. **HilleRisLambers**, R.J. Pabst, D.G. Sprugel & M.E. Swanson. Spatial aspects of tree mortality strongly differ between young and old-growth forests. In prep.

Levine, J.M. & J. **HilleRisLambers**. The contribution of spatial niches to the coexistence of annual plants. In prep.

Rogers[1], H.S., J.J. Tewksbury, and J **HilleRisLambers**. Impact of frugivore loss on forests depends on species-specific strength of distance-dependent mortality. In prep.

Rogers[1], H.S., J **HilleRisLambers**, E. Buhle, and J.J. Tewksbury. Consequences of a silent forest: Total bird loss disrupts seed dispersal and reduces survival. In prep.

Theobald[1], E.J., Gabrielyan[1], H. & J. **HilleRisLambers**. Lilies at the limit: a role for plant-pollinator interactions in altitudinal distributions? In prep.

INVITED PRESENTATIONS

2014: Ecological Society of America Annual Meeting (*Ignite talk*), Sacramento, CA

2014: Plum Creek Distinguished Lecture Series, University of Montana, MO

2014: Iowa State University, IA

2013: Rice University, TX

2013: University of Queensland, Brisbane, Australia

2013: Ecological Society of America Annual Meeting (*Ignite talk*), Minneapolis, MN

2012: Species Interactions & Climate Change Working Group, Cary IES, NY

2012: Portland State University, OR

2012: Michigan State University, MI

2012: ETH Zurich, Switzerland

2011: Tyson Research Center, Washington University, St. Louis WA

2011: Cary Institute of Ecosystem Studies, Millbrook, NY

2011: University of Toronto, Toronto, Canada

2010: University of North Carolina, Chapel Hill, NC

2010: Universitat Zürich, Switzerland

2010: Ecological Society of America Annual Meeting (*Symposium Speaker*) Pittsburgh, PA

2009: Western Washington University, Bellingham, WA

2009: University of Guam, Guam

2008: Washington State University, Vancouver, WA

2007: University of British Columbia, Vancouver, Canada

INVITED PRESENTATIONS (CONT'D)

2006: University of Chicago, Chicago, IL
2006: University of California, Davis, CA
2006: University of California, Santa Barbara, CA
2004: University of Colorado, Boulder, CO
2004: University of Washington, Seattle, WA
2004: University of Michigan, Ann Arbor, MI
2004: Syracuse University, Syracuse, NY
2004: Indiana University, Bloomington, IA
2004: University of Guelph, Guelph, Canada
2004: University of Vermont, Burlington, VM
2004: University of Wisconsin, Milwaukee, WI
2003: Carleton College, Carleton, MN
2003: University of Pittsburgh, Pittsburgh, PA
2003: University of California, Berkeley, CA
2002: Oklahoma State University, Stillwater, OK
2002: University of Kansas, Lawrence KS
2002: University of Notre Dame, South Bend, IN
2002: University of Minnesota, St. Paul, MN
2002: Wageningen University, the Netherlands
2001: University of Minnesota, St. Paul, MN
2000: University of Amsterdam, the Netherlands
1999: Harvard Forest, Petersham, MA

MEETING PRESENTATIONS (EXCLUDING INVITED PRESENTATIONS)

2013: Ecological Society of America Annual Meeting, Minneapolis, MN
2011: Ecological Society of America Annual Meeting, Austin, TX.
2010: Mountain Climate Meeting, Blue River, OR
2009: Ecological Society of America Annual Meeting, Albuquerque, NM
2008: Mountain Climate Meeting, Silverton, CO
2007: Ecological Society of America Annual Meeting, San Jose, CA
2006: Ecological Society of America Annual Meeting, Memphis, TN
2004: Ecological Society of America Annual Meeting, Portland, OR
2003: Ecological Society of America Annual Meeting, Savannah, GA
2002: Ecological Society of America Annual Meeting, Tucson, AR
2000: Ecological Society of America Annual Meeting. Snowbird, UT

MEETING PRESENTATIONS (EXCLUDING INVITED PRESENTATIONS): CONT'D

2000: Ecological Society of America/British Ecological Society. Orlando, FL.

1999: Ecological Society of America Annual Meeting. Spokane, WA.

1998: Ecological Society of America Annual Meeting. Baltimore, MD.

1997: Ecological Society of America Annual Meeting. Albuquerque, NM.

WORKSHOPS AND WORKING GROUPS

2014: Urban Land Ethic Leaders Workshop at the University of Washington, Seattle.

2014: Invited Speaker at a Mathematical and Statistical Ecology Workshop hosted by the Statistical and Mathematical Applied Sciences Institute, Research Triangle Park, NC.

2014: sTundra: Scaling Tundra Shrub Expansion from Site to Biome. Workshop at the German Centre for Integrative Biodiversity Research – iDiv, Leipzig, Germany.

2012: Species Interactions and Climate Change. NSF funded workshop at the Cary Institute of Ecosystem Studies, Millbrook, NY.

2001: Demography and Dispersal. Workshop at the National Center for Ecological Analysis and Synthesis, Santa Barbara, CA.

TEACHING (AT UNIVERSITY OF WASHINGTON)

2013, 2011, 2010: Scientific Manuscript Writing (UW Bio506)

2013-2007 (one quarter annually): Ecology Journal Discussion Group (UW Bio560)

2012: Biological Impacts of Climate Change (UW Bio315)

2012, 2009, 2008, 2007, (winter quarter): Introductory Biology (UW Bio180)

2009, 2008: Community Ecology & Lab (UW Bio472)

2010, 2008: Guest instructor for Advanced Ecology, 1 week (UW Bio562)

2008, 2007: Grant Writing (UW Bio502)

POSTDOCS

2012-present: Melanie Harsch. NSF funded Math-Bio Fellowship. Exploring the link between species traits and range shifts globally. https://sites.google.com/site/melanieharsch/home

2012-present: Steve Kroiss. Interested in the implications of climate change for population dynamics across ranges. https://sites.google.com/site/skroiss/home

2012-2014: Cynthia Chang. NSF funded Math-Bio Fellowship. Exploring the link between species traits and community assembly. Assistant professor at UW Bothell starting in Fall, 2014. http://cynthiacchang.weebly.com/

GRADUATE STUDENTS

2012-present: Ian Breckheimer, interested in gene flow across latitude and altitude.
University of Washington Biology Department: Top Scholar Award

GRADUATE STUDENTS (CONT'D)

2012-present: Leander Love-Anderegg, interested in range wide physiology and demography.
- National Science Foundation: Graduate Research Opportunities Worldwide Travel Grant
- Charles Redd Center for Western Studies: Graduate Student Research Grant
- Sigma Xi: Grants-In-Aid of Research: Graduate Student Research Grant
- American Alpine Club: Research Grant
- National Science Foundation: Graduate Research Fellowship
- University of Washington Biology Department: Plant Biology Fellowship
- University of Washington: Achievement Rewards for College Scientists Fellowship

2010-present: Elli Jenkins Theobald, interested in phenology and plant-pollinator interactions.
- University of Washington: Huckaby Teaching Fellowship
- Mazamas: Grant in Aid of Research
- American Alpine Club: Research Grant
- National Science Foundation: Graduate Research Fellowship
- University of Washington Biology Department: Top Scholar Award

2008-2014: Kevin Ford. "Climate change impacts on the distribution and performance of plant species at Mount Rainier". Current position: Postdoctoral Research Fellow: Pacific Northwest Research Station (US Forest Service). http://kevinford.weebly.com/
- National Science Foundation: Dissertation Improvement Grant
- Washington State Native Plant Society: Research Grant
- National Park Service: George Melendez Wright Climate Change Fellowship
- National Science Foundation: Graduate Research Fellowship
- American Alpine Club: Research Grant
- University of Washington Program on Climate Change: At-large Graduate Fellowship
- University of Washington Biology Department: Plant Biology Fellowship
- University of Washington: Achievement Rewards for College Scientists Fellowship

2007-2013: Ailene Ettinger. "Testing the limits: understanding how climate and competition affect species' ranges in a warming world". Current position: Putnam Fellow, Harvard University, Massachusetts. http://tinyurl.com/aileneettinger
- University of Washington: Huckaby Teaching Fellowship
- Garden Club of America: Urban Forestry Graduate Fellowship
- National Science Foundation: Dissertation Improvement Grant
- National Park Service: George Melendez Wright Climate Change Fellowship
- Strategic Environmental Development and Research Program: Travel Grant
- National Science Foundation: Graduate Research Fellowship
- University of Washington Biology Department: Top Scholar Award

2007-2013: Susan Waters. "Plants, pollinators and global change: the effects of invasion and flowering phenology on plant-pollinator interactions". Current position: PIP (Project for Interdisciplinary Pedagogy) Fellow, University of Washington, Bothell.
- University of Washington: Huckaby Teaching Fellowship
- National Science Foundation: Graduate Research Fellowship
- University of Washington Biology Department: Top Scholar Award

GRADUATE STUDENTS (CONT'D)

2006-2011: Haldre Rogers (PhD 2011, co-advised by myself and Josh Tewksbury). "The fate of a silent forest: the effects of complete bird loss on the forests of Guam". Current Position: Huxley Faculty Fellow: Rice University. http://haldre.weebly.com/

University of Washington: Dean's Medal and Timeless Award
National Science Foundation: Dissertation Improvement Grant
Budweiser Conservation Fellowship
National Science Foundation: IGERT Fellowship.
National Science Foundation: Graduate Research Fellowship

2006-2011: Sylvia Yang (PhD 2011, co-advised by myself and Jennifer Ruesink). "Ecosystem engineering by eelgrass (*Zostera marina*) leads to population feedbacks in certain environmental contexts". Current Position: Marine Scientist at Shannon Point Marine Center (WWU, Anacortes, Washington).

National Science Foundation: GK12 Graduate Fellowship
Environmental Protection Agency: STAR Graduate Fellowship

Graduate Student Committees: 8 current, 23 since 2006 (excluding my own students)

UNDERGRADUATE SSTUDENTS MENTORED AT UNIVERSITY OF WASHINGTON

2014-present: James Lucas, studying species differences in floral resources in alpine environments. Co-mentored by Theobald & HilleRisLambers.

National Science Foundation: Research Experience for Undergraduates (UW)

2014-present: Lane Felker, modeling species distributions using geo-tagged photos on photo-sharing websites (Flickr, iNaturalist). Co-mentored by Breckheimer & HilleRisLambers.

2013-2014: June Landenburger, studying ecotypic variation in the physiological performance of tree seedlings. Co-mentored by Anderegg & HilleRisLambers.

Mary Gates Endowment: Mary Gates Scholar

2013: Hrach Gabrielyan, studying the relationship between altitude and hermaphroditism in *Erythronium montanum*. Co-mentored by Theobald & HilleRisLambers.

2012: Kathleen Burns, studying climatic and competitive effects on subalpine fir growth. Co-mentored by Ettinger, Love-Anderegg & HilleRisLambers.

National Science Foundation: Research Experience for Undergraduates (UW)

2011-2012: Cherry Chen, studying floral constancy and pollinator behavior. Co-mentored by Waters & HilleRisLambers.

Mary Gates Endowment: Mary Gates Scholar
University of Washington Biology Department: Frye-Hotson-Rigg Award

2011-2012: Sarah Montgomery, studying ecotypic variation in phenology. Co-mentored by Ettinger & HilleRisLambers.

2011-2012: Ben Lee, studying seed and seedling limitation in Urban Parks. Co-mentored by Ettinger & HilleRisLambers. Currently a graduate student at University of Michigan.

University of Washington Biology Department: Frye-Hotson-Rigg Award

UNDERGRADUATE STUDENTS MENTORED AT UNIVERSITY OF WASHINGTON (CONT'D)

2011: Courtenay Ray, studying pollinator visitation and effectiveness in alpine meadows. Co-mentored by Theobald & HilleRisLambers. Currently a graduate student at UC Santa Cruz.

2010-2011: Sara Eshe, studied invasive species and plant-pollinator interactions. Co-mentored by Waters & HilleRisLambers.

Howard Hughes Medical Institute: University of Washington Integrative Research Internship

2009: Melissa Winstanley, studied global change effects on plant interactions.. Mentored by HilleRisLambers.

National Science Foundation: Research Experience for Undergraduates (UW)

2008-2010: Irene Weber, studied effects of elevated CO_2 on stomata. Co-mentored by Waters & HilleRisLambers. Currently a graduate student at Southern Illinois University.

Mary Gates Endowment: Mary Gates Scholar

Howard Hughes Medical Institute: University of Washington Integrative Research Internship

2007-2010: Anna O'Brien, studied impacts of urban environments on native conifers. Co-mentored by Ettinger & HilleRisLambers. Currently a graduate student at UC Davis.

University of Washington Biology Department: Frye-Hotson-Rigg Award

Mary Gates Endowment: Mary Gates Scholar

University of Washington Biology Department: May Garrett Hayes Scholarship

Howard Hughes Medical Institute: University of Washington Integrative Research Internship

2007-2008: Jonathan Deschamps, studied impacts of biocontrol agents on *Cytisus scoparius* (Scotch Broom – the target species) and co-occurring native species. Co-mentored by Waters & HilleRisLambers.

University of Washington Biology Department: Frye-Hotson-Rigg Award

2008: Amado Fuentes, studied tree growth in urban park edges vs. urban park centers. Mentored by HilleRisLambers.

NASA: UW Summer Undergraduate Research Program

PROFESSIONAL SERVICE

2011-present: Faculty of 1000 Contributor.

2011-present: Ecology Letters Associate Editor.

2011: National Science Foundation Grant Panelist (Environmental Biology Panel)

2009: National Science Foundation Grant Panelist (Environmental Biology Panel)

2006-2010: Co-leader of a Hierarchical Bayesian Statistics workshop (Ecological Society of America Annual Meeting).

2002-present: Ad hoc reviewer for the NSF Environmental Biology Panel (8x), the Canadian National Science Foundation (NSERC – 1x), the Dutch National Science Foundation (NWO – 1x), the DOE National Institute on Climate Change (1x), the Swiss National Science Foundation (2x), Microsoft Research (1x), and the Provincia Automatica di Trentino (1x).

2002: Co-organizer, Cedar Creek LTER symposium. Cedar Creek Natural History Area.

1999-present: Article reviews (including *The American Naturalist*, *Ecology*, *Ecology Letters*, *Ecosystems, Journal of Ecology, Proceedings of the National Academy of Sciences USA*).

UNIVERSITY & DEPARTMENTAL SERVICE

2013: UW Biology Curriculum Working Group (EEC area)

2013: College of Arts and Science: Psychology Chair Search

2013: Mary Gates Undergraduate Research Fellowship Reviewer

2007-2009, 2011-2013: Biology Department Search Committee.

2009-2013: Master of Science in Biology Teaching Steering Committee.

2010: Biology Department Faculty Retreat Committee.

2010: Biology Department: Atmosphere-Biosphere Faculty Search Committee.

2009: College of Engineering NSF Graduate Research Fellowship Workshop: Panelist.

2009-2010: Biology Department Introductory Biology Task Force.

2009: Showcase of NSF funded Research for visiting NSF Director.

2008: Participation in SafeZone Workshop (Qcenter, University of Washington).

2008, 2010: Popular talk for the University of Washington Tri-Beta honor society.

2006, 2007: Biology department Seminar Committee.

OUTREACH

2012-present: Founder and Executive Director of MeadoWatch: a citizen science program which monitors wildflower phenology at Mt. Rainier National Park. www.meadowatch.org.

- 2014: Guest lecture & provided materials to Doris Duke Conservation Scholars Program, who will collect data for our program.
- 2014: Hosted lab visit by the "Global Citizens, Local Science" Camp (Pacific Science Center & the Mercer Slough Environmental Education Center), who will collect data for our program.
- 2014: Featured in the Tahoma News (Mount Rainier National Park Newspaper - http://www.nps.gov/mora/planyourvisit/upload/2014SummerTahomaWeb.pdf)
- 2014: Co-led hree orientation sessions for our volunteers (70).
- 2014: Popular talk on the MeadoWatch program for the Olympia Mountaineers.
- 2013: Co-led three orientation sessions for our summer volunteers (48).
- 2012: Popular talk on the MeadoWatch program at the Burke Natural History Museum.

2014: Climate Change Symposium at Mt. Rainier National Park. Presented recent research findings from our lab to interested members of the public.

2014, 2013, 2009: Orientation talk for Mt. Rainier Interpretative Ranger Training.

2012-2013: Developed lesson plans on the biological impacts of climate change for middle school (pilot implementation by Susan Waters in 2013).

2012: Informal presentation at UW on research in the HilleRisLambers Lab to students and community members at "Research Exposed! Approaches to Inquiry".

2011, 2010, 2009: Field tour guide of Mount Rainier for the Environmental Stewardship Program (Seoul National University).

2011: Featured in Climate Change Module for High School Biology Students created by Educurious (a non-profit organization).

OUTREACH (CONT'D)

2011: Led a two day field trip to Mt. Rainier for high school teachers (as part of a NASA funded project on increasing Climate Science awareness in the High School).

2010 & 2011: Participant in 'National Lab Day' (5^{th} grade lab activities).

2010: Hosted on-campus 'field trip' for 6^{th} graders from the University Prep Academy, Seattle.

2009: Tour guide for a pre-conference field trip to Mount Rainier National Park (National Areas Association Conference).

2008: Popular talk for the Washington Native Plant Society.