

Iara Lacher, Ph. D.

Smithsonian Conservation Biology Institute
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Front Royal, VA 22630
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SUMMARY

Interdisciplinary landscape ecologist with experience working in complex issues of sustainability and resource use. Skilled in quantitative methods in landscape-scale modeling of land use change/climate change and impacts on ecological function and biodiversity. Demonstrated history of effective collaboration with academics and practitioners, including the co-production of science with regional stakeholders. Vast knowledge of native plants and contribution of flora to regional biodiversity.

RESEARCH INTERESTS

Sustainable land use planning, landscape ecology, scenario planning, land use change modeling, species distribution modeling, ecosystem function and biodiversity conservation, ecosystem services, prioritization of conservation and restoration action, conservation planning, plant-ecology, climate change impacts, human dimensions of ecology.

PROFESSIONAL POSITIONS

Landscape Ecologist, Program Lead, Changing Landscapes Initiative, Smithsonian Conservation Biology Institute, Front Royal, VA (July 2018-Present 2020)

Owner, Seven Bends Nursery, Winchester, VA. SevenBends.org (2019-present)

Consultant, Earth Walk Dwellings - <http://earthwalkdwellings.com/> (2017-present),

Section Editor (Climate Change), Case Studies in the Environment, University of California Press. November 2016-present)

Joint Smithsonian/Harvard Forest Postdoctoral Fellow, Smithsonian Conservation Biology Institute, Front Royal, VA (July 2015-July 2018)

Fulbright Scholar (U.S. Core Program) – Universidade Federal de Goiás, Goiânia, Brazil (2014)

EDUCATION

PhD in Ecology (August 2008-Dec 2013)

Department of Environmental Science and Policy

University of California – Davis, CA

Dissertation - *“Testing assumptions about the relationship between geographic range and climatic tolerance for narrow and broadly distributed native plant species using in-situ observations, ex-situ experiments, and species distribution modeling.”*

Master of Environmental Science and Management (MESM) (2008)

Conservation Planning Specialization

Bren School of Environmental Science and Management - University of California, Santa Barbara

Bachelor of Science in Botany (2005)

University of Washington - Seattle, WA

Professional Certificate in Restoration Ecology

Professional Certificate in Botanical Illustration

CURRENT RESEARCH

- Linking stakeholder input with quantitative land use land change models to identify ecologic and social tradeoffs of future land use scenarios
- Regional scenarios for land use futures in working landscapes: Case study on Northwestern Virginia
 - Impacts on ecosystem services, ecosystem function, landscape fragmentation metrics
- Assessing conservation value of protected lands
- Using landscape characteristics to model invasion risk of forest habitat in Northwestern Virginia
- Effects of locally adapted populations on modeled projections of suitable habitat for the widely distributed *Mimulus guttatus* species

AWARDS RECEIVED

- Research Grant** – Lacher, I. Bridging the Gap: Connecting Conservation Science and Outreach (2020)
- Research Grant** – Lacher, I., Whigham, D. Engaging the Public in the Science of Conservation for America's Native Orchids (2020)
- Research Grant** – Connette, G., Stabach, J., Lacher, I. Crego, R., Hughey, L., Vanthomme, H., Sanchez Cuervo, A., Songer, M. Hindsight is 20/20, but Foresight is Even Better: Developing a 'Mass Market' Approach to Conservation Scenario Modeling with Google Earth Engine (2019)
- Research Grant** – Komatsu, K., Ogburn, M., Lacher, I. Johnson, A., Hruska, A., Tracy, A., Lubell, M., Lefcheck, J., Cawood, A., Connette, G. Bridging the land-sea interface: Chesapeake Bay as a model ecosystem for conservation science, partnerships, and actions (2019)
- Research Grant** – Lacher, I. Changing Landscapes Initiative. Working Land and Seascapes Amplification fund. (2019)
- Research Grant** – Teixeira, K., Tepley, A., Lacher, I. Forest Resilience to Imminent Ash die-off in Shenandoah National Park. Shenandoah National Park Trust. (2018)
- Research Grant** – Lacher, I., McShea, W.J., Estimating invasion risk for native forest in Northwestern Virginia. Washington Field Biologists Club. (2017)
- Research Grant** – Lacher, I., McShea, W.J., Estimating invasion risk for native forest in Northwestern Virginia. Virginia Native Plant Society (2016)
- NSF IGERT Travel award** – University of California, Davis (2013)
- Professors for the Future Fellowship** - University of California, Davis (2012-2013)
- Jastro Shields Award** – University of California, Davis (2011)
- California Native Plant Society Educational Grant** – Sacramento, CA (2010)
- NSF IGERT Travel award** – University of California, Davis (2010)
- Jastro Shields Award** - University of California, Davis (2010)
- NSF REACH IGERT Trainee Award (Response to Rapid Environmental Change)** - University of California, Davis (2008-2010)
- Fee Fellowship Award** – The Donald Bren School of Environmental Science and Management, UCSB (2007)
- Conference Scholar** - The Central California Land Use and Planning Law Conference, Avila Beach, CA (2007)
- NSF Research Experience for Undergraduates Award (NSF-REU)** – University of Washington, Seattle, WA (2004)

PUBLICATIONS

Lacher, I., Akre, T., McShea, W J., Fergus, C., Plisinski, J., Morreale, L. (In Progress) Land use change scenarios developed through stakeholder engagement results in effective conservation messaging

Fergus, C., **Lacher, I.**, Hermann, V., McShea, W., Akre, T. (In Progress) Regional scale modeling of plant invasion in hard wood forests of northwestern VA.

- Degano, M.E., **Lacher, I.**, Fergus, C., Akre, T. (In Progress) Connectivity of forest patches across future land use scenarios.
- Raleigh R. Hood, Gary Shenk, Rachel Dixon, William Ball, Jessie Bash, Kathy Boomer, Damian C. Brady, Carl Cerco, Peter Claggett, Kim dDe Mutsert, Zachary M. Easton, Andrew J. Elmore, Marjorie Friedrichs, Lora Harris, Thomas Ihde, **Iara Lacher**, Lewis Linker, Andrew Miller, Julia Moriarty, Gregory Noe, George Onyullo, Kenneth Rose, Katie Skalak, Sean M.C. Smith, Jeremy M. Testa, Richard Tian, Tamie L. Veith, Lisa Wainger, Donald Weller, Yinglong Joseph Zhang. (In Press) The Chesapeake Bay Program Management Modeling System: Progress, Challenges and Prospects. *Ecological Modeling*.
- Ahmadisharaf, E., **Lacher, I.**, Fergus, C., Benham, B.L., Akre, T., Kline, K.S. (2020) Projecting land use change impacts on nutrients, sediment and runoff in multiple spatial scales: Business-as-usual vs. stakeholder-informed scenario. *Journal of Cleaner Production*.
- Cove, M V., Fergus, C., **Lacher, I.**, Akre, T., and McShea, W J. (2019) Projected mammal distributions in response to future alternative landscapes in a rapidly transitioning region. *Remote Sensing*.
- Lacher, I.**, Akre, T., McShea, WM., Fergus, C. (2019) Spatial and temporal patterns of public and private land protection within the Blue Ridge and Piedmont ecoregions of the eastern US. *Landscape and Urban Planning*.
- Lacher, I.**, Akre, T., McShea, W.J., McBride, M., Thompson, J., Fergus, C. (2019) Engaging regional stakeholders in scenario planning for the long-term preservation of ecosystem services in Northwestern Virginia. *Case Studies in the Environment*.
- Lacher, I.**, Ahmadisharaf, E., Fergus, C., Akre, T., McShea, W.J., Benham, B.L., Kline, K.S. (2019) Coupling a dynamic land use land change model with the Chesapeake Bay model reveals scale-dependent impacts to sediments and pollution. *Science of the Total Environment*.
- Ramirez, K. S., Berhe, A. A., Burt, J., Gil-Romera, G., Johnson, R. F., Koltz, A. M., **Lacher, I.**, McGlynn, T., Nielsen, K.J., Schmidt, R., Simonis, J.L., TerHorst, C.P., Tuff, K. 2017. The future of ecology is collaborative, inclusive and deconstructs biases. *Nature Ecology & Evolution*. <http://doi.org/10.1038/s41559-017-0445-7>
- Lacher, I.L.** 2017. Strategic conservation planning in the Anthropocene. In: *Encyclopedia of the Anthropocene*, Volume x. D. DellaSalla and M. Goldstein (eds). Elsevier, Oxford.
- Winford, E.*, M.L.Wilkerson, L. M. Porensky, **I. Lacher**, K. Garbach, K. Deiner, J.L. Blickley and M. Meek. Skills for non-academic wildlife and conservation careers. 2017. In *Wildlife Professions*. Eds. S.E. Henke and P.R. Krausman. John Hopkins University Press, Baltimore, Maryland. p. 24-28. *All authors except the last contributed equally and are listed in reverse alphabetical order. (*Book Chapter*)
- Lacher, I.**, and M. W. Schwartz. 2016. Empirical test on the relative climatic sensitivity between individuals of narrowly and broadly distributed species. *Ecosphere* 7(3).
- Lacher, I***. and Wilkerson, M. L. 2013. Wildlife Connectivity Approaches and Best Practices in U.S. State Wildlife Action Plans. *Conservation Biology*, 28: 13–21. doi: 10.1111/cobi.12204 *Equal authorship.
- Diamond, T. Waetjen, D., **Lacher, I.** Harrold, K., Shilling, F.M. Prioritizing mitigation for interstates using wildlife movement information. Proceedings of the 2013 International Conference on Ecology and Transportation (ICOET 2013)

Blickley, J*. L., Deiner, K., Garbach, K., **Lacher, I.**, Meek, M. H., Porensky, L. M., Wilkerson, M. L., Winford, E. M. and Schwartz, M. W. 2012. Graduate Student's Guide to Necessary Skills for Nonacademic Conservation Careers. Conservation Biology. DOI: 10.1111/j.1523-1739.2012.01956.x

Wetzel, W., **Lacher, I.**, Swezey, D., Moffitt, S., Manning, D. 2012. Analysis reveals potential rangeland impacts if Williamson Act eliminated. California Agriculture. pp131-136. (*Cover Article*)

Lacher, I., Corey, D. 2007. Conservation Plan for the Lower Santa Clara River Watershed and Surrounding Areas. Ventura, CA. Prepared for The Nature Conservancy. Internal Use Only.

del Moral, R., **Lacher, I.** 2005. Vegetation Patterns 25 Years after the Eruption of Mount St. Helens, Washington, USA. Amer. J. Bot. **92**(12) 1948-1956.

**equal contribution*

Doctoral Dissertation

“Empirical test on the relative climatic sensitivity between narrowly and broadly distributed native plant species

“Temporal changes in population density and reproductive ability challenge assumptions in climatic tolerances for species with small and large ranges”

“Differences in proportional change in projected suitable habitat resulting from the inclusion of temporal variability in species distribution models for species of differing range size”

PRESENTATIONS

Lacher, I. “Scientific support for strategic planning for the long-term preservation of ecosystem services”. 2020. American Planning Association, Virginia Chapter.

Lacher, I., Howard, C. “Smithsonian’s Changing Landscapes Initiative”. 2020. National Park Service, Connected Conservation Series.

Lacher, I. “Boundary-Spanning Science for Change”. 2020. Be In the Change, Global Huddle.

Iara Lacher, Amy Hruska, Tracy Allison. SYMPOSIUM. 2020. "Boundary-spanning science in North America, highlighting interdisciplinary conservation research at the Smithsonian Institution". North American Association for Conservation Biology. Denver, CO.

Lacher, I., "Changing Landscapes Initiative, Integrating land use change science into planning". 2020. North American Association for Conservation Biology. Denver, CO.

Lacher, I. “Changing Landscapes Initiative: Supporting Decision Making for Change” 2020. Webinar. Potomac Drinking Water Source Protection Partnership.

Lacher, I., Fergus, C., Akre, T. “Modeling the Risk of Plant Invasion in Northern Virginia Forest Patches”. US International Association for Landscape Ecology. Toronto, Ontario, Canada.

Noe, G., Hopkins, K., Claggett, P., Hupp, C., Schenk, E., Metes, M., Lacher, I., Fergus, C., McShea, W.J., Akre, T. 2019. "Comparison of future land-use change scenarios on floodplain and streambank loads of sediment and nutrients in northwestern Virginia."

Lacher, I., Thomas, A., Fergus, C., McShea, W.J., Plisinski, J., Morreale, L., Thompson, J. 2019. “Modeled land use change scenarios developed through participatory stakeholder engagement”. International Society for Conservation Biology. Kuala Lumpur, Malaysia.

- Lacher, I. Akre, T., McShea, W.J., Fergus, C. 2019. "Spatial and temporal patterns of public and private land protection within the Blue Ridge and Piedmont ecoregions of the eastern US". US International Association for Landscape Ecology. Fort Collins, CO.
- Lacher, I. Akre, T., McShea, W. J., Thompson, J., Fergus, C. 2018. "Integrating Stakeholder Feedback with Land Use Change Models to Predict Future Scenarios of Forest Loss and Landscape Configuration". Ecological Society of America. New Orleans, LA.
- Lacher, I. 2018. "Saving the Planet, One Plant at a Time: How a community's renewed love of native plants can contribute to large-scale biodiversity conservation". Mountain Maryland Native Plant Festival.
- Lacher, I. Akre, T., McShea, W. J., Thompson, J., Fergus, C. 2018. "Integrating Stakeholder Feedback with Land Use Change Models to Predict Future Scenarios of Forest Loss and Landscape Configuration". US International Association for Landscape Ecology. Chicago, IL.
- Lacher, I. Akre, T., McShea, W. J., Thompson, J., Fergus, C. 2017. "Changing Landscapes Initiative: Tying stakeholder feedback to land use change models and ecosystem services". Smithsonian Mason School of Conservation. Front Royal, VA.
- Lacher, I. Akre, T., McShea, W. J., Thompson, J., Fergus, C. 2017. "Integrated landscape planning for biodiversity and ecosystem services". Seminar Series, Smithsonian Conservation Biology Institute. Front Royal, VA.
- Lacher, I. 2017. "Saving the Planet, One Plant at a Time: How a community's renewed love of native plants can contribute to large-scale biodiversity conservation". Virginia Native Plant Society, Potowmack Chapter.
- Lacher, I. Akre, T., McShea, W. J., Thompson, J., Fergus, C. 2017. International Society for Conservation Biology. "Tying stakeholder feedback to land use change models and ecosystem services". Cartagena, Colombia.
- Lacher, I. 2017. Assessing the Vulnerability of Species to Climatic Change. International Society for Conservation Biology. Cartagena, Colombia.
- Akre, T. Lacher, I. 2017. Knowledge Café: How can we bridge the gap between large-scale conservation vision and locally-applied action? International Society for Conservation Biology. Cartagena, Colombia.
- Lacher, I. Akre, T., McShea, W. J., Thompson, J., Fergus, C. 2017. "Tying stakeholder feedback to land use change models and ecosystem services", US International Association for Landscape Ecology. Baltimore, MD.
- Lacher, I. 2016. "The Changing Landscapes Initiative". Shenandoah National Park Conservation Summit. Luray, VA.
- Lacher, I. 2016. "Coping with global change through a renewed public love of native plants". Keynote, White House Farm – Luray, VA
- Lacher, I. 2015. "Testing assumptions about the relationship between geographic distribution and climatic tolerance". Smithsonian Environmental Research Center. Edgewater, MD
- Lacher, I. 2013. "Testing assumptions of the climatic envelope for rare and common plant species using empirical methods". Interdisciplinary Graduate and Professional Student Symposium. Seattle, WA.
- Lacher, I. 2013. "The Science and Art of Rare Plants". American River College, Sacramento, CA.
- Lacher, I. 2012. "Testing assumptions of the climatic envelope for rare and common plant species using empirical methods". Graduate Climate Conference. Seattle, WA.
- Lacher, I. 2012. "Climatic Tolerances of Rare and Common Plants: Implications to Species Distribution Models and Biodiversity Management". California Native Plant Society. San Diego, CA.

Lacher, I. 2011. “Climatic Tolerances of Rare and Common Plants: Implications to Species Distribution Models and Biodiversity Management”. Invited Speaker, Yosemite National Park Forum, CA.

Lacher, I. 2010. “The Williamson Act and Rangeland Conservation in California”. Keynote Speaker, UC Davis, CA.

Lacher, I. 2010. “Climate Change, Sustainability, and the Environment”. UC Davis Sustainable Design Course, Davis, CA.

Lacher, I. 2009. “Wildlife Action Plans”. Graduate Student Symposium, UC Davis, CA

Lacher, I. 2009. Ecology and Evolution Undergraduate Seminar Series, UC Davis, CA

Lacher, I. 2008. “Wildlife Action Plans”. Hyatt Santa Barbara, Santa Barbara, CA

Lacher, I. 2005. “Vegetation Survey of the Pumice Plains 25 Years after the Eruption of Mount St. Helens”. Undergraduate Research Symposium, UW, Seattle, WA.

- PUBLIC OUTREACH PRESENTATIONS

- Virginia Conservation Network, Oct 11, Richmond, VA. <http://www.vcnva.org/assembly/>
- Citizen Science Training for Orchid Surveys (Tissue Collection), Oct 11, SCBI Front Royal, VA
- Frederick County CEA, August 26, Frederick County Administration Offices
- Blue Ridge Conservation Alliance, August 27, Cool Springs, VA
- Albemarle County Planning, August 26, Albemarle County Offices
- Resilient Virginia Conference, August 19, Charlottesville, VA
<https://resilientvirginia.org/events/2019-resilient-virginia-conference#agenda>
- Core Advisory Presentation, August 15
- “Land use change scenarios developed through participatory stakeholder engagement”, International Congress for Conservation Biology. July 22, Kuala Lumpur, Malaysia
- Citizen Science Training for Orchid Surveys (Field Observations), Apr 26, SCBI Front Royal, VA
- “Spatial and temporal patterns of public and private land protection within the Blue Ridge and Piedmont ecoregions of the eastern US”, International Association of Landscape Ecologists, Apr 8, Fort Collins, CO
- ConCom, April 16, Smithsonian Environmental Research Center, Edgewater, MD
- Forum for Sustaining Agriculture, Mar 8, Winchester, VA <https://blog.icda.net/blog/agricultural-forum-shares-new-ideas-for-enhancing-rural-businesses>
- Rappahannock-Rapidan Regional Commission, Feb 21, Culpeper, VA

DATA DEVELOPMENT

“Water Sustainability Decision-Support Tool and Sustainability Indicators Catalog”
(<http://indicators.ucdavis.edu/>)

- Created to support the California Water Plan Update 2013
- Led by Dr. Fraser Shilling; site programmed and organized by Dr. David Waetjen; indicators and analyses conducted by Susana Cardenas, Iara Lacher, Fraser Shilling, and David Waetjen.

WORKSHOPS & WORKING GROUPS

- *Chesapeake Bay Program Modeling in 2025 and Beyond: A Proactive Visioning Workshop*. January 17-19, 2018. (Participant)

- *Changing Landscapes Initiative Scenario Building Workshops*. August 25 & 30, 2016. Harrisonburg & Culpeper, VA
- *Changing Landscapes Initiative Northern Shenandoah Valley Meeting*. February 2, 2016. Bluemont, VA
- *Science Advisory Meeting for the Changing Landscapes Initiative*. October 7-8, 2015. Smithsonian Conservation Biology Institute, Front Royal, VA
- *Training Future Professors to Identify and Teach Skills Applicable in Pursuing Careers Outside of Academia*. May 17, 2013. University of California, Davis.
- *The Williamson Act and Rangeland Conservation in California*. September 14, 2010. University of California, Davis.

TEACHING EXPERIENCE

Course Development:

- “Stakeholder-Driven Scenario Models for Strategic Conservation Planning”. Six-day intensive professional development course. Smithsonian Mason School of Conservation. Front Royal, VA.
- “Climate change impacts on biodiversity and biodiversity conservation”. Three-day intensive professional development course. Universidade Federal de Goiás, Goiânia, Brazil (Implemented in 2014)

Mentorship:

Smithsonian Conservation Biology Institute, Front Royal, VA (August 2015-present)

- 2 field interns upcoming for spring/ summer field surveys on native orchid abundance and diversity
- Meredith Hickman – Outreach and Communications (present)
- Maria Eugenia Degano– GIS Intern (present)
- Natalia Horvath – Outreach and Communications (2020)
- Marina Pastor – Undergraduate Research Experience, George Mason University (2020)
- Erin Carroll – GIS Intern (2019)
- Carlyle Howard – Outreach and Communications (2018-2020)
- Sarah Halperin – GIS Intern (2018)
- Sultana Majid – GIS Intern (2017)
- Samantha Alexander – Undergraduate Research Experience, George Mason University (2017)
- Brandon Hays – Field Intern (2016)
- Craig Fergus – GIS Intern (2015-2016); Spatial Analyst (2016-2017); Lab Manager (2017-present)

University of California, Davis (2010-2013)

- 32 undergraduate interns spanning 2010-2013
- Developed and implemented short course program on climate manipulation experiments and field research for each quarter.

Guest Instructor:

- “Drivers of Environmental Change and Ecosystem Services”. Conservation 401. Smithsonian Mason School of Conservation. Front Royal, VA (2017)
- “Scenario Planning for Natural Resources Conservation”. Conservation 401. Smithsonian Mason School of Conservation. Front Royal, VA (2016)

Teaching Assistant:

- Introductory Biology: Ecology, University of California, Davis (2013)
- Introduction to Environmental Science and Policy, University of California, Davis (2010)
- New Venture Ideas, University of California, Santa Barbara (2007)

OTHER WORK EXPERIENCE

Graduate Student Research:

- GIS analyst - Department of Environmental Science and Policy, University of California, Davis (2011- 2013)
- GIS analyst - Road Ecology Center , University of California, Davis (2011)

- Public Relations - John Muir Institute for the Environment, University of California, Davis (2011)

Internships:

- Ecotourism - Dominica Parks & Wildlife Division, Dominica, W.I. (2010)
- Conservation Planning - The Nature Conservancy, Ventura, CA (May 2007- Oct 2007)
- Restoration Ecology - Coal Oil Point Reserve, Shoreline Preservation Fund, Goleta, CA (Oct 2006 -Dec 2006)
- Urban Ecology - Goleta Valley Beautiful, Goleta, CA (Oct 2006-Jan 2007)
- Plant Community Ecology – Department of Biology, University of Washington, Seattle, WA (June 2004-September 2004)
- Tropical Botany and Carbon - Conservation International - Estação Ferreira Penna, of the Museu Emílio Goeldi, Amazon Basin & Washington DC (May 2003-July 2003)

PRESS

PODCAST: Important, Not-Important, “Boundary Spanning Science for Change”

<https://www.importantnotimportant.com/podcast/tag/Smithsonian+Institution>

“Ash Tree Die-Off is Focus of 2018 Research Grant Awarded in Shenandoah National Park”

<https://www.nps.gov/shen/learn/news/ash-tree-die-off-is-focus-of-2018-research-grant-awarded-in-shenandoah-national-park.htm>

“Featured speakers at 2018 Mountain Maryland Native Plant Festival”

https://www.wvnews.com/garrettrepublican/community/featured-speakers-at-mountain-maryland-native-plant-festival/article_4992d630-7ce9-57a7-930a-5f22348bcf39.html

“Connectivity approaches in state wildlife action plans”. Conservation Corridor

<http://www.conservationcorridor.org/2014/03/connectivity-approaches-state-wildlife-action-plans/>

“A graduate student’s guide to necessary skills for landing a job”. Early Career Ecologists

<http://earlycareerecologists.wordpress.com/2013/02/12/a-graduate-students-guide-to-necessary-skills-for-landing-a-job/>

“Next- generation point of view: getting a job”. International Network of Next-Generation Ecologists

<http://innge.net/?q=node/332>

“So, you want a job that lets you save the world”. The Quantitative and Applied Ecology Group.

<http://qaeco.com/2012/11/19/so-you-want-a-job-that-lets-you-save-the-world/>

“Rangeland at Risk” NPR’s KQED show Forum with Michael Krasny.

<http://www.kqed.org/a/forum/R201210300930>

“Williamson Act cuts: Ranch land, critical conservation areas, at risk” ANR News Release.

<http://ucanr.edu/blogs/blogcore/postdetail.cfm?postnum=8593>

“Wildlife habitat would suffer without Williamson Act, survey finds” Plant and Environmental Sciences, UC Davis.

http://www.plantsciences.ucdavis.edu/plantsciences/features/recent_news/williamson_act.htm

“Highlight: California’s Williamson Act, cattle ranch economics, and biological conservation”. IGERT News.

<http://www.igert.org/highlights/741>

“Save the Planet: Keep the Williamson Act/ Repeal AB 32”. Stephen Frank’s California.

<http://capoliticalnews.com/2013/01/21/save-the-planet-keep-the-williamson-actrepeal-ab-32/>

“Alumna co-authors paper on budgetary impacts of Williamson Act” Events and Media from the Bren School.

http://www.bren.ucsb.edu/news/williamson_act.htm

“ESA 2013 Preview: Tackling assumptions on the climatic tolerances of narrowly vs broadly distributed species”.

Ecology Graduate Student Association <http://egsa.ucdavis.edu/blog/tag/esa2013/>

CERTIFICATIONS

Restoration Ecology Certificate - University of Washington Restoration Ecology Network, Seattle, WA (2005)

Scientific Illustration Certificate - University of Washington Extension, Seattle, WA (2005)

Instructor - Introduction to Botanical Illustration, John Muir Institute for the Environment,

- University of California, Davis (May 2014 & July 2011)

SERVICE & OUTREACH

SCBI Seminar Series Coordinator – Bi-weekly seminar for local and visiting scholars in conservation biology sciences (2017-2020)

Board Member - Science Ambassador Scholarship - Full ride college scholarship for women in STEM fields (2015-2017)

Kids into Discovering Science (KiDS) Program - Hands on science in the classroom at Lower Lake Elementary, Lower Lake, CA (March 2012 and January - February 2014)

Plant Ecology Specialist - Strategies for Ecology Education, Diversity and Sustainability Bioblitz Biodiversity Assessment. Plant Ecology Specialist, Pittsburgh, PA (Aug 2010)

Volunteer Judge - Coliseum College Prep Academy & Roots International 2nd Annual Science Fair. Oakland, CA
(May 2009)

AFFILIATIONS

AAAS/Science - via the **Program for Excellence in Science**

Ecological Society of America (ESA)

Society for Conservation Biology (SCB)

Virginia Native Plant Society (CNPS)

UC Davis Ecology Graduate Group Sustainability Committee: Founder, Chair 2008-2012

LANGUAGE

Brazilian Portuguese – Fluent

Spanish – Conversational

NOTABLE COMPUTING SKILLS

ArcGIS

R programming platform

DinamicaEGO