

BETSY VON HOLLE

Program Director

National Science Foundation, Division of Environmental Biology

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Associate Research Professor

George Washington University, Department of Biology

EDUCATION

- 2005-2007 Environmental Fellow, **American Association for the Advancement of Science**, at the Environmental Protection Agency
Postdoctoral sponsors: Drs. Michael Slimak and Jeffrey Frithsen
- 2002 – 2005 National Park Ecological Research Fellow, **Harvard Forest, Harvard University**
Postdoctoral sponsor: Prof. David Foster
- 1997-2002 **Ph.D. University of Tennessee, at Knoxville** Ecology & Evolutionary Biology
Advisor: Prof. Daniel Simberloff
Dissertation topic: *“Ranking the Components of Ecological Resistance to Plant Invaders in a Southern Appalachian Riparian Forest”*
- 1990-1994 **B.S. University of California, at San Diego** Ecology, Behavior & Evolution

PROFESSIONAL APPOINTMENTS

- 2013 – present **Program Director**, National Science Foundation, Div. of Environmental Biology
- 2013 – 2016 **Associate Professor**, University of Central Florida, Department of Biology
- 2007 - 2013 **Assistant Professor**, University of Central Florida, Department of Biology
- April 2016 – present **Research Associate**, University of Central Florida, Department of Biology
- 1996 - 1997 **Biological Technician**, Smithsonian Environmental Research Center
- 1995 - 1996 **Research Intern**, Smithsonian Environmental Research Center

AWARDS AND GRANTS (lead PI on award, unless otherwise indicated)

- 2016-2019 National Park Service, National Grants Program (\$154,177)
- 2014-2017 National Park Service, Cape Cod National Seashore (\$200,000, *UCF portion= \$50,000*)
- 2013 UCF Teaching Incentive Program (teaching award which raised my base salary by \$5K)
- 2013 Florida Space Institute (*co-PI with J. Weishampel et al.*, \$51,211)
- 2012 Highlighted Faculty, UCF Center for Success of Women Faculty
- 2011-2013 South Atlantic Landscape Conservation Cooperative (\$156,985)
- 2008-2012 National Park Service, Cape Cod National Seashore (\$29,258)
- 2008 Summer Research Fellowship, Marine Biological Laboratories, (\$11,270)
- 2008-2009 Florida Department of Environmental Protection, (\$14,500)

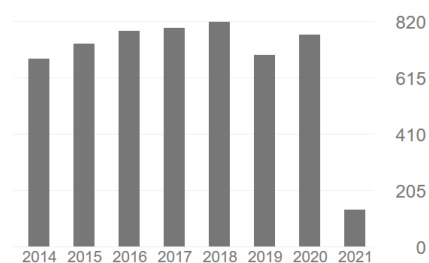
AWARDS AND GRANTS, Continued

2008-2009 University of Central Florida, College of Science, (\$7,500)
 2007-2008 Florida Department of Environmental Protection, (\$14,500)
 2005-2008 Research Experience for Undergraduates (REU) site grant: Harvard Forest REU Program in Forest Ecology, National Science Foundation, A.M. Ellison and K. Donohue, PIs, (*I was one of 10 supporting PIs*, \$800,000)
 2005-2007 AAAS Science and Technology Fellowship, Environmental Fellow, (\$160,000)
 2005 National Park Service, (\$2,000)
 2004 Highstead Arboretum (*co-PI with David R. Foster*, \$11,200)
 2003 National Park Service, (\$5,000)
 2002-2005 National Park Ecological Research Fellowship, NPERF, (\$150,000)
 2002-2005 Postdoctoral Training Grant, Andrew W. Mellon Foundation, (\$21,000)
 2002 Miller Research Fellowship for Basic Science, University of California, Berkeley, *declined* (\$165,000)

PUBLICATION INDICES (Calculated by Google Scholar, on February 17, 2021)

Cited by [VIEW ALL](#)

	All	Since 2016
Citations	9912	4003
h-index	26	18
i10-index	31	28



PUBLICATIONS (* indicates undergraduate co-author, graduate student co-author)

40. Díaz, S. Jens Kattge, J. Hans C. Cornelissen, Ian Wright, Sandra Lavorel, Stéphane Dray, Björn Reu, Michael Kleyer, Christian Wirth, I. Colin Prentice, Eric Garnier, Gerhard Boenisch, Mark Westoby, Hendrik Poorter, Peter Reich, Angela Moles, John Dickie, Amy Zanne, Jerome Chave, Stuart Wright, Serge Sheremetiev, Hervé Jactel, Christopher Baraloto, Bruno Cerabolini, Simon Pierce, Bill Shipley, Fernando Casanoves, Julia Joswig, Angela Günther, Valeria Falczuk, Nadja Rüger, Miguel Mahecha, Lucas Gorné, Bernard Amiaud, Owen Atkin, Michael Bahn, Dennis Baldocchi, Michael Beckmann, Benjamin Blonder, William Bond, Ben Bond-Lamberty, Kerry Brown, Sabina Bursascano, Chaeho Byun, Giandiego Campetella, Jeannine Cavender-Bares, F. Chapin, III, Brendan Choat, David Coomes, William Cornwell, Joseph Craine, Dylan Craven, Matteo Dainese, Alessandro de Araujo, Franciska de Vries, Tomas Domingues, Brian Enquist, Jaime Fagúndez, Jingyun Fang, Fernando Fernández-Méndez, Maria Fernandez-Piedade, Henry Ford, Estelle Forey, Gregoire Freschet, Sophie Gachet, Rachael Gallagher, Walton Green, Greg Guerin, Alvaro Gutiérrez, Sandy Harrison, Wesley Hattingh, Tianhua He, Thomas Hickler, Steven I Higgins, Pedro Higuchi, Jugo Ilic, Robert Jackson, Adel Jalili, Steven Jansen, Fumito Koike, Christian König, Nathan Kraft, Koen Kramer, Holger Kreft, Ingolf Kühn, Hiroko Kurokawa, E. G. Lamb, Daniel Laughlin, Michelle Leishman, Simon Lewis, Frédérique Louault, Ana Malhado, Peter Manning, Patrick Meir, Maurizio Mencuccini, Julie Messier, Regis

Miller, Vanessa Minden, Jane Molofsky, Rebecca Montgomery, Gabriel Montserrat-Martí, Marco Moretti, Sandra Müller, Ülo Niinemets, Romà Ogaya, Kinga Öllerer, Vladimir Onipchenko, Yusuke Onoda, Wim Ozinga, Juli Pausas, Begoña Peco, Josep Penuelas, Valério Pillar, Clara Pladevall, Christine Römermann, Lawren Sack, Norma Salinas, Brody Sandel, Jordi Sardans, Brandon S. Schamp, Michael Scherer-Lorenzen, Ernst-Detlef Schulze, Fritz Schweingruber, Satomi Shiodera, Ênio Sosinski Jr, Nadejda Soudzilovskaia, Marko Spasojevic, Emily Swaine, Nathan Swenson, Susanne Tautenhahn, Ken Thompson, Alexia Totte, Rocío Urrutia, Fernando Valladares, Peter Bodegom, François Vasseur, Kris Verheyen, Denis Vile, Cyrille Violle, Betsy von Holle, Patrick Weigelt, Evan Weiher, Michael Wiemann, Mathew Williams, Justin Wright, and Gerhard Zotz *In press*: The global spectrum of plant form and function: enhanced species-level trait dataset. **Scientific Data**.

39. Roura-Pascual, N., B. Leung, W. Rabitsch, L. Rutting, J. Vervoort, S. Bacher, S. Dullinger, K. Erb, J.M. Jeschke, S. Katsanevakis, I. Kühn, B. Lenzner, A.M. Liebhold, M. Obersteiner, A. Pauchard, G.D. Peterson, H.E. Roy, H. Seebens, M. Winter, M.A. Burgman, P. Genovesi, P.E. Hulme, R.P. Keller, G. Latombe, M.A. McGeoch, G.M. Ruiz, R. Scalera, M.R. Springborn, **B. von Holle**, F. Essl. 2021. Alternative futures for global biological invasions. **Sustainability Science** <https://doi.org/10.1007/s11625-021-00963-6>

38. **von Holle, B.**, *S. Weber, D. Nickerson. 2020. The influence of warming and biotic interactions on the potential for range expansion of native and nonnative species. **AoB Plants**: 12 (5): plaa040 [plaa040.pdf \(silverchair.com\)](https://doi.org/10.1093/aob/plaa040)

37. Lyons, M., **B. von Holle**, M. Caffrey, J.F. Weishampel. 2020. Quantifying impacts of future sea level rise on nesting sea turtles in the southeastern United States. **Ecological Applications**, 30(5): e02100. <https://doi.org/10.1002/eap.2100>

36. **B. von Holle**, S. Yelenik, E.S. Gornish. Restoration at the landscape scale as a means of adaptation to climate change. 2020. **Current Trends in Landscape Ecology**: 5: 85-97. DOI 10.1007/s40823-020-00056-7

35. Essl, F, Lenzner, B., Bacher, S., Bailey, S., Capinha, C., Daehler, C., Dullinger, S., Genovesi, P., Hui, C., Hulme, P.E, Jeschke, J.M., Katsanevakis, S., Kuhn, I., Leung, B., Liebhold, A., Liu, C.L., MacIsaac, H.J., Meyerson, L.A., Nunez, M.A., Pauchard, A., Pysek, P., Rabitsch, W., Richardson, D.M., Roy, H.E., Ruiz, G.M., Russell, J.C., Sanders, N.J., Sax, D.F., Scalera, R., Seebens, H., Springborn, M., Turbelin, A., van Kleunen, M. **von Holle, B.**, Winter, M., Zenni, R.D., Mattsson, B.J., Roura-Pascual, N. Drivers of future alien species impacts: An expert-based assessment. 2020, **Global Change Biology**: DOI: 10.1111/gcb.15199

34. Faison, E.K, D.R. Foster, **B. von Holle**, J.M. Rapp, and S. Moore. 2019. Nonnative vegetation dynamics in the understory of a fragmented temperate forest. **Journal of the Torrey Botanical Society**. 146 (4): 252 – 261.

33. **von Holle, B.** and J.L. Irish, A. Spivy, J.F. Weishampel, A. Meylan, M.H. Godfrey, M. Dodd, S.H. Schweitzer, T. Keyes, F. Sanders, M.K. Chaplin, and N.R. Taylor. 2019. Effects of Future Sea Level Rise on Coastal Habitat. **Journal of Wildlife Management**: 83(3) 694-704. DOI 10.1002/jwmg.21633.

32. Hamed, A. K. Madani, **B. von Holle**, J. Wright, J.W. Milon, and M. Bossick. 2016. How much are Floridians willing to pay for protecting sea turtles from sea level rise? *Environmental Management* 57(1): 176-188.
31. Neill, C., M. M. Wheeler, E. Loucks, A. Weiler, **B. von Holle**, M. Pelikan, and Tom Chase. 2015. Influence of soil properties on coastal sandplain grassland establishment on former agricultural fields. *Restoration Ecology*: 23 (5):531-538.
30. Wheeler, M.M., C.M. Neill, E. Loucks, A. Weiler, **B. von Holle**, M. Pelikan, and T. Chase. 2015. Effects of vegetation removal and seed limitation on sandplain grassland creation on former agricultural fields. *Restoration Ecology*: 23 (5):539-547.
29. **von Holle, B.**, E.F. Largay, *B. Ozimec, *S.A. Clark, K. Lee, and C.M. Neill. 2013. Ecosystem legacy of the introduced N-fixing tree, *Robinia pseudoacacia*, in a coastal forest. *Oecologia* 172 (3): 915-924.
28. **von Holle, B.** 2013. Environmental stress alters native-nonnative relationships at the community scale. *Biological Invasions* 15: 417–427.
27. Weiler, A., **B. von Holle**, and D. Nickerson. 2013. Reducing biotic and abiotic land-use legacies to restore invaded, abandoned citrus groves. *Restoration Ecology* 21(6): 755-762
26. Liebhold A.M., D.G. McCullough, L.M. Blackburn, S.J. Frankel, **B. von Holle**, and J.E. Aukema. 2013. A highly aggregated geographical distribution of forest pest invasions in the USA. *Diversity and Distributions* 19: 1208-1216.
25. Reece, J.S., M. Bilskie, L. Ehrhart, S. Hagen, A. Hays, C. Long, R. F. Noss, D. Passeri, C. Sanchez, M.V. Schwoerer, **B. von Holle**, J.F. Weishampel, and S. Wolfe. 2013. Sea level rise, land use, and climate change influence the distribution of loggerhead (*Caretta caretta*) nests at the largest US rookery at Melbourne Beach, Florida. *Marine Ecology Progress Series* 493: 259-274.
24. Aukema, J., B. Leung, K. Kovacs, C. Chivers, K. Britton, J. Englin, S. Frankel, R. Haight, T. Holmes, A. Liebhold, D. McCullough, and **B. von Holle**. 2011. Economic Impacts of Non-Native Forest Insects in the United States *PLoS ONE* 6(9): e24587. doi:10.1371/journal.pone.0024587
23. Simberloff, D. et al. (I was one of 141 Signatories). 2011. Non-natives: 141 scientists object. *Nature* 475:36-36.
22. **von Holle, B.**, Y. Wei and D. Nickerson. 2010. Climatic variability leads to later seasonal flowering of Floridian plants. *PLoS ONE* 5(7): e11500. doi:10.1371/journal.pone.0011500

21. J.E. Aukema, D. G. McCullough, **B. von Holle**, A. Liebhold, K. Britton and S. J. Frankel. 2010. Historical accumulation of nonindigenous forest pests in the continental United States. *BioScience* 60 (11): 886-897. (cover article)



20. Holmes, T.P., S. Liebhold, K. Kovacs, and **B. von Holle**. 2010. A spatial-dynamic value transfer model of economic losses from a biological invasion. *Ecological Economics* 70:86-95.

19. Niemiera, A.X., and **B. von Holle**. 2010. Invasive Plants and the Nursery Industry. *Virginia Nursery & Landscape Newsletter* 80(6): 45-50.

18. Holmes, T.P., J.E Aukema, **B. von Holle**, A. Liebhold, E. Sills. 2009. Economic Impacts of Invasive Species in Forests: Past, Present, and Future. *Year in Ecology and Conservation Biology* 1162: 18-38.

17. Reaser, J., L. Meyerson, and **B. von Holle**. 2008. Saving camels from straws: How propagule pressure-based prevention policies can reduce the risk of unintentional introductions. *Biological Invasions* 10:1085-1098.

16. **von Holle, B.** and G. Motzkin. 2007. Historical land use and environmental determinants of nonnative plant distribution in coastal northeastern United States. *Biological Conservation* 136: 33-43.

15. Neill, C.M., **B. von Holle**, *K. Kleese, *K. D. Ivy, A. R. Collins, and *C. Treat. 2007. Effects of land-use history on soil quality and vegetation: Implications for sandplain grassland restoration. *Biological Conservation* 136:17-32.

14. Mack, R.N., **B. von Holle**, and L.A. Meyerson. 2007. Assessing the impacts of invasive alien species across multiple spatial scales: the need to work globally and locally. *Frontiers in Ecology and Evolution* 5(4):217-220.

13. Fridley, J. D., J.J. Stachowicz, S. Naeem, D.F. Sax, E.W. Seabloom, M.D. Smith, T.J. Stohlgren, D. Tilman, and **B. von Holle**. 2007. The invasion paradox: Reconciling pattern and process in species invasions. *Ecology* 88(1): 3-17.

12. Niemiera, A.X. and **B. von Holle**. 2007. Invasive Plants – A Horticultural Perspective. *Virginia Cooperative Extension*, publication 426-080. Virginia Polytechnic Institute and State University, Blacksburg, VA. 6pp.

11. **von Holle, B.**, K.A Joseph, E.F. Largay, and *R.G. Lohnes. 2006. Facilitations between the introduced nitrogen-fixing tree, *Robinia pseudoacacia*, and nonnative plant species in the glacial outwash upland ecosystem of Cape Cod, MA. *Biodiversity and Conservation* 15: 2197–2215.

10. **von Holle, B.** and D. Simberloff. 2005. Ecological resistance to biological invasion overwhelmed by propagule pressure. *Ecology* 86(12):3213-3218.

9. A. M. Ellison, M. S. Bank, B. D. Clinton, E. A. Colburn, C. R. Ford, D. R. Foster, B. D. Kloeppel, J. D. Knoepp, G. M. Lovett, J. Mohan, D. A. Orwig, N. L. Rodenhouse, W. V. Sobczak, K. A.

Stinson, J. K. Stone, C.M. Swan, J. Thompson, **B. von Holle**, and J. R. Webster. 2005. Loss of foundation species: Consequences for the structure and dynamics of forested ecosystems. *Frontiers in Ecology and the Environment* 9(3): 479-486.

8. **von Holle, B.** 2005. Biotic resistance to invader establishment of a southern Appalachian plant community is determined by environmental conditions. *Journal of Ecology* 93: 16-26

7. **von Holle, B.** and D. Simberloff. 2004. Testing Fox's assembly rule: Does plant invasion depend upon recipient community structure? *Oikos* 105: 551-563

6. **von Holle, B.**, H. Delcourt, and D. Simberloff. 2003. Biological inertia and its application in studies of ecological resistance to invasion. *Journal of Vegetation Science* 14: 425-432

5. Weltzin, J.F., N. Muth, **B. von Holle**, and P. Cole. 2003. Overcoming methodological constraints on experimental investigations of diversity-invasibility relationships - a test using genetic diversity in a model system. *Oikos* 103: 505-518

4. Lockwood, J., D. Simberloff, M. McKinney, and **B. von Holle**. 2001. How many, and which, plants will invade natural areas? *Biological Invasions* 3 (1): 1-8.

3. Wasson, K., **B. von Holle**, J. Toft and G. Ruiz. 2000. Detecting invasions of marine organisms: Kamptozooan case histories. *Biological Invasions* 2(1): 59-74

2. Parker, I.M. , D. Simberloff, W.M. Lonsdale, K. Goodell, M. Wonham, P.M. Kareiva, M.H. Williamson, **B. von Holle**, P.B. Moyle, J.E. Byers, L. Goldwasser. 1999. Impact: Toward a framework for understanding the ecological effects of invaders, *Biological Invasions* 1(1): 3-19

1. Simberloff, D. and **B. von Holle**. 1999. Positive interactions of nonindigenous species: Invasional meltdown? *Biological Invasions* 1(1): 21-32.

BOOK CHAPTERS

- **von Holle, B.** 2011. Invasional Meltdown. *In, Encyclopedia of Invasive Introduced Species*, D. Simberloff and M. Rejmánek, (eds.) University of California Press, Berkeley, CA. pp. 360-364.
- Niemiera, A.X., and **B. von Holle**. 2009. Invasive Plant Species and the Ornamental Horticulture Industry. *In, Management of Invasive Weeds*, Inderjit (ed.) Springer, New York, NY. pp. 167-187.
- Niemiera, A.X., and **B. von Holle**. 2011. Invasive Plant Species and the Nursery Industry. *American Nurseryman*. 9(11): 12-17.

MANUSCRIPTS IN REVIEW & PREPARATION (* indicates undergraduate co-author, graduate student co-author)

- **von Holle, B., K. Martin,** D. Crary II, and S. Smith. *In preparation.* The effects of fire and soil disturbance on recruitment of the rare heathland shrub, broom crowberry (*Corema conradii*). **Restoration Ecology**
- **Martin, K., B. von Holle,** E. Steinhauer, R. Buchsbaum, and P. Dunwiddie. *In preparation.* Disturbance-based management in a changing world: Plant species composition and diversity in Massachusetts sandplain heathlands over the past two decades. **Restoration Ecology**
- **Weiler, A., B. von Holle,** and C.M. Neill. *In preparation.* Factors limiting native species establishment in former agricultural fields. **Ecological Applications**
- **von Holle, B.** *In preparation.* Incorporating residence time into predictions of impact and spread of nonnative species. **Ecology**

SCIENTIFIC WORKSHOP PARTICIPATION AND LEADERSHIP

- The economic and ecological effects of non-native forest pests and pathogens, June 2007 – March 2009. National Center for Ecological Analysis and Synthesis, Santa Barbara, CA. Organizers: Juliann Aukema and Erica Fleishmann
- Invasive Plants in Protected Areas, Indo-US Science & Technology Forum, Nov. 11-18, 2006, Corbett National Park, India. Organizers: Richard N. Mack and K.G. Saxena
- The link between propagule pressure and nonnative invasion success and impacts, July 24-25, 2006. National Center for Environmental Assessment, US EPA, Washington, DC. Organizers: **B. von Holle**, D. Simberloff, J. Frithsen and M. Slimak

SCIENTIFIC WORKSHOP PARTICIPATION AND LEADERSHIP

- Quantifying the impacts of Invasive Alien Species: What can we learn at the Global Scale?, *Ecological Society of America, "Ecology in an Era of Globalization"*. Merida, Mexico. January 2006. Organizers: L. Meyerson, R. N. Mack, and **B. von Holle**
- Coastal Sandplain Science and Conservation Workshop. December 2004. The Ecosystems Center, Marine Biological Laboratories. Organizer: Christopher Neill
- Invasion biology: Toward a theory of impacts. National Center for Ecological Analysis and Synthesis, February 1998, August 1998, and February 1999. Organizer: Ingrid M. Parker

INVITED SEMINARS (Universities and Institutions)

- 2018 George Washington University
- 2017 University of Virginia, Biological Field Station
- 2016 Smithsonian Environmental Research Center
- 2015 Howard University
- 2012 NSF Center for Integrated Pest Management, North Carolina State University; National Science Foundation, Division of Environmental Biology

- 2010 Archbold Biological Station; Smithsonian Tropical Research Institute, Center for Tropical Forest Science
- 2008 University of Georgia, University of South Florida
- 2007 University of Florida
- 2006 Smithsonian Environmental Research Center, University of Central Florida, Indo-US Science & Technology Forum
- 2005 Colorado State University, Environmental Protection Agency, Virginia Polytechnic Institute and State University
- 2004 Columbia University, Institute for Ecosystem Studies, McGill University, Rutgers University, University of Vermont.
- 2002 Harvard University, University of Maryland.
- 2000-02 University of Virginia, Mountain Lake Biological Station.

SCIENTIFIC CONFERENCE PRESENTATIONS (2002-2019) (* indicates undergraduate co-author, graduate student co-author, † postdoctoral co-author)

INVITED

- B. von Holle. Will non-native species benefit more from climate change than natives? **Keynote address, Canadian Aquatic Invasive Species Network.** Halifax, Nova Scotia, April 2015.
- B. von Holle. How will climate change affect the invasion and management of non-native plants? **Keynote address, Mid-Atlantic Invasive Plant Council.** Shepherdstown, WV, July 31, 2013.
- B. von Holle, J.F. Weishampel, J. Irish, *A. Spivy, M. Auman, M. Dodd, M. Godfrey, D. Griffin, A. Meylan, L. Ehrhart, J. Stiner, and S. Hagen. Investigation of the effects of sea level rise on sea turtle nesting distributions within the South Atlantic Bight. 16th **Annual Florida Marine Turtle Permit Holder Meeting.** Orlando, FL, February 23, 2013.
- von Holle, B. Climatic drivers for changes in native and nonnative plant phenology. *Co-organizer with Jeff Dukes of organized oral session*, “Invasive Species and Climate Change: Challenges and Opportunities in a Warmer World”. **Ecological Society of America.** Pittsburgh, PA. August 2010.
- Holmes, T., J. Aukema, K. Britton, J. Englin, S. Frankel, R. Haight, K. Kovacs, B. Leung, A. Liebhold, D. McCullough, A. Nuding, E. Sills, and B. von Holle. Re-thinking the Economics of Non-native Forest Pests. **Keynote address, USDA Interagency Forum on Invasive Species.** Annapolis, MD. January 2009.
- von Holle, B., L. Biven, J. Frithsen, C. Kolar, M. P. Marchetti, S. H. Reichard, A. Ricciardi, and G. M. Ruiz (co-authors listed alphabetically). A ranking scheme for high-impact nonnative aquatic invaders. **Ecological Society of America.** San Jose, CA. August 2007.
- von Holle, B. Nonnative species distribution and impacts across spatial scales. *Invited workshop speaker.* “Quantifying the impacts of Invasive Alien Species: What can we learn at the Global Scale?”, **Ecological Society of America**, “*Ecology in an Era of Globalization*”. Merida, Mexico. January 2006.

- von Holle, B., D.R. Foster, and G. Motzkin. *Invited symposium speaker*. Patterns and mechanisms of plant invasibility across spatial scales: a case study of coastal New England. **Ecological Society of America**. Montreal, Canada. August 2005.
- von Holle, B., D.R. Foster, and G. Motzkin. Ecological resistance to plant invaders in a mosaic landscape: Cape Cod National Seashore. *Co-organizer (with Jason Fridley) of symposium*, “Parks for Science: The National Parks Ecological Research Fellowship Program”, **George Wright Society of America**. Philadelphia, PA, March 2005.

CONTRIBUTED (2002-2019)

- von Holle, B., J.F. Weishampel, J. Irish, A. Spivy, and S.C. Hagan. How will future sea level rise affect sea turtle nesting habitats within the South Atlantic Bight? **International Sea Turtle Society**. Charleston, SC, February, 2019.
- von Holle, B., The Role of Natural and Human Disturbances in the Restoration of *Corema conradii* (broom crowberry) Heathlands. **Ecological Society of America**. New Orleans, LA, August 2018.
- von Holle, B. Martin, K.M., Doshas, A., and Crary, D. II, The role of natural and human disturbances in the restoration of *Corema conradii* (broom crowberry) heathlands. **Ecological Society of America** Fort Lauderdale, FL August 2016.
- von Holle, B., J.F. Weishampel, J. Irish, A. Spivy, and S.C. Hagan. How will future sea level rise affect sea turtle, shorebird, seabird, and beach mouse nesting habitats within the South Atlantic Bight?. **Ecological Society of America**. Baltimore, MD, August 2015.
- von Holle, B., D. Nickerson, S. Goodrick, and H. Swain. Are nonnative species better at tracking climate change than natives?. **Ecological Society of America**. Sacramento, CA, August 2014.
- von Holle, B., *S. Weber, *S. Igtibien, †K.A. Medley, and C.V. Hawkes. The influence of warming and biotic interactions on the potential for range expansion of native and nonnative species. **Ecological Society of America**. Minneapolis, MN, August 2013.
- Martin, K.M., B. von Holle, E. Steinauer, P.W. Dunwiddie, R. Buchsbaum, and C. Neill. Disturbance-based management and changing species composition in sandplain heathlands **Ecological Society of America**. Minneapolis, MN, August 2013.
- B. von Holle, J.F. Weishampel, J. Irish, *A. Spivy, M. Auman, M. Dodd, M. Godfrey, D. Griffin, A. Meylan, L. Ehrhart, J. Stiner, and S. Hagen. Investigation of the effects of sea level rise on sea turtle nesting distributions within the South Atlantic Bight. **International Sea Turtle Society**. Baltimore, MD, February 2013.
- *Auman, M., B. von Holle, and J. Weishampel. Relating Sea Surface Temperature to the Nesting Phenology of Hawksbill Sea Turtles at Buck Island Reef National Monument, St. Croix, USVI. **International Sea Turtle Society**. Huatulco, Mexico. March 2012. **Awarded Best Student Paper Presentation, Conservation*

- Martin, K. and B. von Holle. The effects of disturbance-based management on broom crowberry (*Corema conradii*) in Cape Cod, Massachusetts. **Southeastern Ecology & Evolution Conference**. Clemson, SC. March 2012.
- Auman, M., B. von Holle, Mitigating loggerhead sea turtle (*Caretta caretta*) nest temperatures in response to climate change. *Poster*. **Coastal and Estuarine Research Foundation**. Daytona Beach, FL. November 2011.
- von Holle, B. Do Native and Nonnative Species Respond Similarly to Climate Change? **Ecological Society of America**. Austin, Texas. August 2011.
- Weiler, A., B. von Holle, and C. Neill. Giving native species the competitive edge: Restoration methods for abandoned agricultural lands. **Ecological Society of America**. Austin, Texas. August 2011.
- von Holle, B. Do Native and Nonnative Species Respond Similarly to Climate Change? **Florida Exotic Pest Plant Council**. Maitland, FL. May 2011.
- Weiler, A., and B. von Holle. Restoring Abandoned Citrus Groves: Reducing Biotic and Abiotic Barriers to Native Plant Establishment. **Florida Exotic Pest Plant Council**. Maitland, FL. May 2011.
- von Holle, B., Y. Wei, and D.M. Nickerson. Climatic Drivers for Changes in Flowering Times of FLEPPC Category I and II Species. **Florida Exotic Pest Plant Council**. Crystal River, FL. April 2010.
- Weiler, A., and B. von Holle. Factors limiting the establishment of native species in former agricultural lands. *Poster*. **Florida Native Plant Society**. Tallahassee, FL. May 2010.
- Weiler, A., and B. von Holle. Factors limiting native species establishment in former citrus groves. *Poster*. **Florida Exotic Pest Plant Council**. Crystal River, FL. April 2010.
- von Holle, B. The effect of climate change on the phenology and distribution of nonnative plants in Florida. **Florida Exotic Pest Plant Council**. Jacksonville, FL. April 2008.
- Brescacin, C.R. and B. von Holle. Terrestrial vertebrate herbivore grazing effects on plant species richness: A meta-analysis. *Poster*. **Ecological Society of America**. Milwaukee, WI. August 2008.
- Niemiera, A.X., B. von Holle, and R. Harris. Invasive Plants – What are they and what should we do about them? **American Society for Horticultural Science**. Scottsdale, Arizona. July 2007.
- von Holle, B. Incorporating time into predictions of impact and spread of nonnative species. **Ecological Society of America**. Memphis, Tennessee. August 2006.
- von Holle, B., D.R. Foster, and G. Motzkin. Historical land use and environmental determinants of nonnative plant distribution in coastal northeastern United States. **Ecological Society of America**, *“Ecology in an Era of Globalization”*. Merida, Mexico. January 2006.
- von Holle, B., K.A. Joseph, *R.G. Lohnes, and E.F. Largay. Facilitations between the introduced N-fixing tree, *Robinia pseudoacacia*, and nonnative plant species in upland forests. **Ecological Society of America**. Portland, OR, August 2004.

- von Holle, B., E.F. Largay, D.R. Foster, and G. Motzkin. Differential effects of natural and anthropogenic disturbances on habitat invasibility. **Society for Conservation Biology**. New York, NY, July 2004.
- von Holle, B., D.R. Foster, and G. Motzkin. Historic and current influences on habitat invasibility in a mosaic landscape: Cape Cod National Seashore. **Ecological Society of America**. Savannah, GA, August 2003.
- von Holle, B. and D. Simberloff. Ranking the components of invisibility to biological invasion in a southern Appalachian riparian forest: An experimental manipulation. **Society for Conservation Biology**. Duluth, MN, July 2003.
- von Holle, B., D.R. Foster, and G. Motzkin. Ecological resistance to plant invaders in a mosaic landscape: Cape Cod National Seashore. **New England Invasive Plant Summit**. Framingham, MA, September 2003.
- von Holle, B. Does flooding disturbance facilitate invasion by non-indigenous species? **Ecological Society of America**. Tucson, AZ, August 2002.
- von Holle, B. Testing Elton's notion of biotic resistance: Does plant invasion success depend upon species richness of the recipient community? **Society for Conservation Biology**. Canterbury, England, July 2002.

GRADUATE SUPERVISION

2010 - 2013

Monette Auman M.S. *Phenological response of the hawksbill sea turtle (Eretmochelys imbricata) to climate change*

Kirsten Martin M.S. *Disturbance-based management in a changing world: Plant species composition and diversity in Massachusetts sandplain heathlands over the past two decades*

2008 - 2012

Annalisa Weiler-Lazarz M.S. *Factors limiting native plant restoration in abandoned agricultural lands*

POST-DOCTORAL ASSOCIATES

2018-2020

Marta Lyons "Predicting changes in suitable nesting habitat for sea turtle species using a biophysical niche modeling approach". *Currently* Ecologist at the USGS Midwest Climate Adaptation Science Center

2008-2009

Martin Nuñez *currently* Associate researcher, National Scientific and Technical Research Council (CONICET), Institute for Research in Biodiversity and the environment (INIBIOMA) at Bariloche, Rio Negro, Argentina

RESEARCH GRANTS & AWARDS TO MY GRADUATE STUDENTS

2013 International Sea Turtle Society: Runner-up, Best Paper Presentation, Conservation
2012 **International Sea Turtle Society: Best Paper Presentation, Conservation**
Sigma Xi Grant-in-Aid of Research (\$720)
Nantucket Biodiversity Initiative (\$1,478)
New England Botanical Club (\$800)
2011 LIFE, University of Central Florida (\$400)
2010 LIFE, University of Central Florida (\$2,000)
The Garden Club of America (\$8,000)
2009 Florida Exotic Pest Plant Council (\$2,400)

GRADUATE STUDENT COMMITTEES

<u>Graduation Year</u>	<u>Names</u>
2014	Alexis Maldonado
2013	Ahmed Hamed, Beth Richards, Cheryl Sanchez
2012	Edem Epke, Jessica Hightower
2011	Jesse Abelson, Brittany Billak, Jason Cade, Ethan Nash
2010	Camille Brescacin

TEACHING EXPERIENCE

Graduate Advanced Ecology & Lab: Spring 2007 and 2009
Advanced Ecology: Fall 2012
Invasion Biology: Spring 2008, 2010, and 2012
Seminar in Biology: Spring 2011, 2013

Undergraduate Ecology: Fall 2008, 2009, 2010, 2011, and 2012
Invasion Biology: Spring 2010 and 2012

PROFESSIONAL SERVICE

SCIENTIFIC SOCIETIES

Chair, Florida Exotic Species Pest Plant Council Research Committee (2007-2013)
Treasurer, Sigma Xi, University of Central Florida Chapter (2011-2013)
Member, Ecological Society of America (2000-present)
Member, Society for Conservation Biology (2000-present)

JOURNAL REVIEWS

American Naturalist, American Journal of Botany, Biodiversity and Conservation, Biological Conservation, Biological Invasions, BioScience, Conservation Biology, Diversity and Distributions, Ecology, Ecological Monographs, Ecology Letters, Ecosystems, Ecology and Society, Ecosphere, Functional Ecology, Global Ecology and Biogeography, Journal of Ecology, Journal of Functional Ecology, Journal of Vegetation Science, Natural Areas Journal, New Phytologist, Oikos, Plant and Soil, PLoS ONE, Restoration Ecology, Trends in Ecology and Evolution, Urban Ecosystems

EXPERT REVIEW PANELIST

Comparative Risk Assessment of the 50 US States to Exotic Species. *NSF Center for Integrated Pest Management, North Carolina State University and Cooperator with USDA-APHPIS-PPQ-CPHST-PERAL*, Raleigh, NC, January 24-25, 2012.

GRANT PANELIST

National Science Foundation Population and Community Ecology, Division of Environmental Biology

EXTERNAL GRANT REVIEWER

US Department of Agriculture NRICGP, Biology of Weedy and Invasive Plants

National Science Foundation, Evolution and Ecology clusters

Department of Energy, National Institute for Climatic Change Research

Research Council of Norway

The French National Research Agency

Volkswagen Foundation

BOOK REVIEWER

Cain M.L., W.D. Bowman, and S.D. Hacker. 2011. *Ecology*. 2nd edition, 648 pp. Sinauer, Sunderland, MA.

UCF SERVICE

Undergraduate Committee, Department of Biology (2012-2013)

Women's Research Center Executive Committee (2012-2013)

Undergraduate Committee, Department of Biology (2012-2013)

Chair's Advisory Committee, Department of Biology (2011-2013)

Natural Areas Committee, Department of Biology (2010-2013)

Graduate Committee, Department of Biology (2009-2012)

Faculty Hiring Committee, Department of Biology (2010, 2012)

Faculty Senate, University of Central Florida (2007)

MEDIA & POLICY COVERAGE

- November 12, 2021. "The Benefits of Better Ocean Weather Forecasting" by Charlotte DeMott, Ángel G. Muñoz, Christopher D. Roberts, Claire M. Spillman and F. Vitart, EOS.
- May 14, 2019. Sea level rise threatens bird habitats along Atlantic Coast, study says" by Paul Brinkmann, United Press International.
- May 6, 2019. "High erosion risk for beaches in SC, Southeast troubling for turtles and birds, study says" by Chloe Johnson, Post and Courier, Charleston, SC.
- October 2011. Senator Daniel Akaka, of Hawaii, cites the paper by Aukema et al (2011) in introducing the **Safeguarding American Agriculture Act of 2011**.
- September 2011. The paper by Aukema et al (2011) was featured in reports by the *New York Times*, *Scientific American*, *Conservation Magazine*, and the *Wall Street Journal*, among others.

- April 2011. The paper by Von Holle and Simberloff (2005) was identified by Essential Science Indicators as an **Emerging Research Front**, it was the most-cited paper in a highlighted research area in **the field of Environment/Ecology**.
<http://sciencewatch.com/dr/erf/2011/11aprperf/11aprperfHoll/html>
- December 2010. The paper by Aukema et al (2010) was featured in reports by the *Washington Post*, *LA Times*, *Science Daily*, and the *United Press International*, UPI.com, among others.
- September 1, 2010. “UCF climate study: Is our weather getting wacky? A study by UCF points to more extreme weather, by Linda Florea, *Orlando Sentinel*, A1 (front page).
- August 22, 2010. “Collier getting wetter and Lee warmer, UCF climate study shows”, by Eric Staats, *Naples News*.
- July 23, 2010. “Study: 'Wacky' weather a threat in Florida”, *Science News*.
http://www.upi.com/Science_News/2010/07/23/Study-Wacky-weather-a-threat-in-Fla/UPI-55681279918147/
- July 22, 2010. “Climate change threatens Florida fruit crop”, *CBC News*.
<http://www.cbc.ca/consumer/story/2010/07/22/con-florida-weather.html>
- May 2009. Scientific consultant and appearance in the History Channel, “Life without Humans” documentary.
- October 2007. The paper by Von Holle and Simberloff (2005) was identified by Essential Science Indicators as a **Fast Breaking Paper in the field of Environment/Ecology**, it was one of the most-cited papers in this field published in the previous two years, <http://www.esi-topics.com/fbp/2007/october07-BetsyVonHolle.html>
- 2006. Nitrogen-fixing tree paves the way for other invaders. *Conservation in Practice* 7(4): 12.