

JONATHAN S. LEFCHECK

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EDUCATION

- 2015 **Ph.D., Marine Science**
School of Marine Science, Virginia Institute of Marine Science,
The College of William & Mary, Gloucester Point, VA
- 2009 **B.A., Biology**
Colby College, Waterville, ME

EXPERIENCE

- 2018- **Scientist/Coordinator**
MarineGEO Network, Smithsonian Institution, Edgewater, MD
- 2017- **Post-doctoral Researcher**
2018 Bigelow Laboratory for Ocean Sciences, East Boothbay, Maine
- 2015- **Post-doctoral Researcher**
2017 Virginia Institute of Marine Science,
The College of William & Mary, Gloucester Point, VA

PUBLICATIONS

†Undergraduate co-author

2018

31. J.P. Richardson, **J.S. Lefcheck**, R.J. Orth. (2018) Warming temperatures alter the relative abundance and distribution of two co-occurring foundational seagrasses in Chesapeake Bay, USA. *Marine Ecology Progress Series* 599: 65-74. [PDF](#)
30. J.B. Grace, D.J. Johnson, **J.S. Lefcheck**, J.E. Byrnes. (2018) Standardized effects in ecological models containing binary outcomes. *Ecosphere* 9(6): e02283. [PDF](#)
29. S. Bornbusch†, **J.S. Lefcheck**, J.E. Duffy. (2018) Reproduction and defense in eusocial colonies: Trade-offs in a complex social system of sponge-dwelling shrimp. *PLoS ONE* 13(3): e0193305. [PDF](#) | [National Geographic](#)
28. M. Dornelas, L.H. Antão, F. Moyes, ..., **J.S. Lefcheck**, ..., K. Zawada (and 248 more). (2017) BioTIME: A database of biodiversity time series for the Anthropocene. *Global Ecology and Biogeography* 27:760-786. [PDF](#)
27. **J.S. Lefcheck**, R.J. Orth, W.C. Dennison, D.J. Wilcox, R.R. Murphy, J. Keisman, C. Gurbisz, M. Hannam, J.B. Landry, K. A. Moore, C.J. Patrick, J. Testa, D.E. Weller, R.A. Batuik. (2018) Long-term nutrient reductions lead to the unprecedented recovery of a temperate coastal region. *PNAS* (115)14: 3658-3662. [PDF](#) | [Washington Post](#) 1, 2 | [NPR](#) | [PNAS Commentary](#)
26. A.D. Barnes, M. Jochum, **J.S. Lefcheck**, N. Eisenhauer, C. Scherber, M.I. O'Connor, P. de Ruiter, U. Brose. (2018) Energy flux: the link between multitrophic biodiversity and ecosystem functioning. *Trends in Ecology and Evolution*. 33(3): 186-197 [PDF](#)

2017

25. G.J. Edgar, T.J. Alexander, **J.S. Lefcheck**, A.E. Bates, S.J. Kininmonth, R.J. Thomson, J.E. Duffy, M.J. Costello, R.D. Stuart-Smith. (2017) Abundance and local-scale processes contribute to multi-phyla global marine diversity gradients. *Science Advances* 3(10): e1700419. [PDF](#) | [Press release](#)
24. R.J. Orth, W.C. Dennison, **J.S. Lefcheck**, C. Gurbisz, M. Hannam, J. Keisman, J.B. Landry, K.A. Moore, R.R. Murphy, C.J. Patrick, J. Testa, D.E. Weller, D.J. Wilcox. (2017) Submersed aquatic vegetation in Chesapeake Bay: sentinel species in a changing world. *BioScience* 67(8): 698-712. [PDF](#)
23. R.J. Orth, **J.S. Lefcheck**, D.J. Wilcox. (2017) Boat propeller scarring of seagrass beds in lower Chesapeake Bay, USA: Patterns, causes, recovery, and management. *Estuaries & Coasts* 40(6): 1666-1676. [PDF](#) | [AFS Research Brief](#) | [CESN Newsletter](#)
22. **J.S. Lefcheck**, D.J. Wilcox, R.M. Murphy, S.R. Marion, R.J. Orth. (2017) Multiple stressors threaten a critical foundational habitat, *Zostera marina*, in Chesapeake Bay, USA. *Global Change Biology* 23(9): 3474-3483. [PDF](#) | [Press release](#) | [New York Times](#) | [Chesapeake Bay Journal](#)
21. R.D. Stuart-Smith, G.J. Edgar, N.S. Barrett, A.E. Bates, S.C. Baker, N.J. Bax, M.A. Becerro, J.L. Blanchard, D.J. Brock, G.F. Clark, T.R. Davis, P.B. Day, J.E. Duffy, T.H. Holmes, A. Jordan, S. Kininmonth, N.A. Knott, **J.S. Lefcheck**, S.D. Ling, A. Parr, E. Strain, H. Sweatman, R. Thomson. (2017) Continental-scale assessment of biodiversity trends on Australia's rocky and coral reefs. *BioScience* 67(2): 134-146. *Editor's Choice. [PDF](#)
20. **J.S. Lefcheck**, S.R. Marion, R.J. Orth. (2017) Restored eelgrass (*Zostera marina* L.) as a refuge for epifaunal biodiversity in mid-Western Atlantic coastal bays. *Estuaries & Coasts* 40(1): 200. [PDF](#) | [CESN Newsletter](#)

2016

19. **J.S. Lefcheck**, S.R. Marion, A.V. Lombana, R.J. Orth. (2016) Faunal communities are invariant to fragmentation in experimental seagrass landscapes. *PLoS ONE*. 11(5): e0156550. [PDF](#)
18. J.E. Duffy, **J.S. Lefcheck**, R.D. Stuart-Smith, S.A. Navarette, G.J. Edgar. (2016) Biodiversity enhances reef fish biomass and resistance to climate change. *PNAS*. 113(22): 6230-6235. [PDF](#) | [Press release](#)
17. Schmitt, M.W. Luckenbach, **J.S. Lefcheck**, R.J. Orth. (2016) Predator-prey interactions in a restored eelgrass ecosystem: Strategies for maximizing success of a reintroduced species, *Argopecten irradians*. *Restoration Ecology* 24(4): 558-565. [PDF](#)
16. **J.S. Lefcheck**, S.J. Brandl, P.L. Reynolds, A.R. Smyth, S.T. Meyer. (2016) Extending rapid ecosystem function assessments to marine systems. *TRENDS in Ecology and Evolution* 31(4): 251-253. [PDF](#)
15. **J.S. Lefcheck**. (2016) piecewiseSEM: Piecewise structural equation modeling in R for ecology, evolution, and systematics. *Methods in Ecology & Evolution*. 7(5): 573-579. [PDF](#) | [Highly commended, British Ecological Society](#)

2015

14. J.E. Duffy, S.L. Ziegler, J.E. Campbell, P. Bippus[†], **J.S. Lefcheck**. (2015) Squidpops: A simple tool to crowdsource a global map of marine predation intensity. *PLoS ONE* 10(11): e0142994. [PDF](#)
13. **J.S. Lefcheck**, J.E. Duffy. (2015) Multitrophic functional diversity predicts ecosystem functioning in experimental assemblages of estuarine consumers. *Ecology* 96(11): 2973-2983. [PDF](#)
12. J.E. Duffy, P.L. Reynolds, C. Boström, J.A. Coyer, M. Cusson, S. Donadi, J.G. Douglass, J. Eklöf, A. Engelen, B.K. Eriksson, S. Fredriksen, L. Gamfeldt, C. Gustafsson, G. Hoarau, M. Hori, K. Hovel, K. Iken, **J.S. Lefcheck**, P. Moksnes, M. Nakaoka, M.I. O'Connor, J.L. Olsen, J.P. Richardson, J.L.

- Ruesink, E.E. Sotka, J. Thormar, M.A. Whalen, J.J. Stachowicz. (2015) Biodiversity mediates top-down control in eelgrass ecosystems: A global comparative experiment. *Ecology Letters* 18(7): 696-705. [PDF](#) | [Press release](#)
11. **J.S. Lefcheck**, J.E.K. Byrnes, F. Isbell, L. Gamfeldt, J.H. Griffin, N. Eisenhauer, M.J.H. Hensel, A. Hector, B.J. Cardinale, J.E. Duffy. (2015) Biodiversity enhances ecosystem multifunctionality across trophic levels and habitats. *Nature Communications* 6: 6936. [PDF](#) | [Press release](#)
 10. L. Gamfeldt, J.S. Lefcheck, J.E.K. Byrnes, J.E. Duffy, B.J. Cardinale, J.N. Griffin. (2015) Marine biodiversity and ecosystem functioning: what's known and what's next. *Oikos* 124(3): 252-265. *Editor's Choice. [PDF](#) | [Oikos Blog](#)
 9. R. Stuart-Smith, A.E. Bates, J.S. Lefcheck, J.E. Duffy, S.C. Baker, R.J. Thomson, J.F. Stuart-Smith, N.A. Hill, S.J. Kininmonth, L. Airoidi, M.A. Becerro, S.J. Campbell, T.P. Dawson, S.A. Navarette, G.A. Soler, E.M.A. Strain, T.J. Willis, G.J. Edgar. (2015) The importance of trait-based approaches to contribute to marine conservation. *Marine Policy* 51: 148-150. [PDF](#)
 8. **J.S. Lefcheck**, V.A.G. Bastazini, J.N. Griffin. (2015) Choosing and using traits in functional diversity research. *Environmental Conservation* 42(2): 104-107. *Invited contribution. **Paper of the month. [PDF](#) | [Cambridge Blogs](#)

2014

7. J.E.K. Byrnes, **J.S. Lefcheck**, L. Gamfeldt, J.N. Griffin, F.I. Isbell., A. Hector. (2014) Multifunctionality does not imply that all functions are positively correlated: Reply to Bradford *et al.* *PNAS*. 111(51): E5490. [PDF](#)
6. T.J. Bird, A.E. Bates, **J.S. Lefcheck**, N.A. Hill, S. Wotherspoon, M. Krkosek, R. Stuart-Smith, J. Stuart-Smith, G. Pecl, G.J. Edgar, R.J. Thomson, N. Barrett, S. Frusher. (2014) Statistical solutions for error and bias in global citizen science datasets. *Biological Conservation* 173: 144-154. *Invited contribution. [PDF](#)
5. **J.S. Lefcheck**, J. van Montfrans, R.J. Orth, E.L. Schmitt, J.E. Duffy, M. Luckenbach. (2014) Epifaunal invertebrates as predators of juvenile bay scallops (*Argopectin irradians*). *Journal of Experimental Marine Biology and Ecology* 454: 18-25. [PDF](#)
4. J.E.K. Byrnes, L. Gamfeldt, F. Isbell, J.E. Duffy, **J.S. Lefcheck**, J.N. Griffin, A. Hector, B.J. Cardinale, D.U. Hooper, L.E. Dee. (2014) Investigating the relationship between biodiversity and ecosystem multifunctionality: Challenges and solutions. *Methods in Ecology and Evolution* 5(2): 111-124. [PDF](#)
3. **J.S. Lefcheck**, A. Buchheister, K.M. Laumann, M. Stratton, K. Sobocinski, S. Chak, T.R. Clardy, P.L. Reynolds, R.J. Latour, J.E. Duffy. (2014) Dimensions of biodiversity in Chesapeake Bay demersal fishes: Patterns and drivers through space and time. *Ecosphere* 5(2): art14. [PDF](#)

2013

2. R. Stuart-Smith, A.E. Bates, **J.S. Lefcheck**, J.E. Duffy, S.C. Baker, R.J. Thomson, J.F. Stuart-Smith, N.A. Hill, S.J. Kininmonth, L. Airoidi, M.A. Becerro, S.J. Campbell, T.P. Dawson, S.A. Navarette, G.A. Soler, E.M.A. Strain, T.J. Willis, G.J. Edgar. (2013) Integrating abundance and functional traits reveals new global hotspots of fish diversity. *Nature* 501(7468): 539-542. [PDF](#) | [Press release](#)
1. **J.S. Lefcheck**, M.A. Whalen, T.M. Davenport, J.P. Stone, J.E. Duffy. (2013) Physiological effects of dietary mixing on consumer fitness: A meta-analysis. *Ecology* 94(3): 565-527. [PDF](#) | [Press release](#)

IN REVISION

J.S. Lefcheck, G.J. Edgar, R.D. Stuart-Smith, A.E. Bates, D.R. Rasher, C. Waldoock, S.J. Brandl, S. Kininmonth, S.D. Ling, J.E. Duffy. (2018) Species richness, not identity, now shapes global reef fish productivity.

J.S. Lefcheck, B.B. Hughes, A.J. Johnson, B. Pfirrmann, D.B. Rasher, A.R. Smyth, B.L. Williams, M.W. Beck, R.J. Orth. (2018) Are coastal habitats important nurseries? A comprehensive meta-analysis.

IN REVIEW

(PDFs available upon request)

J.S. Lefcheck, A.A. Innes-Gold, S.J. Brandl, R.S. Steneck, R.E. Torres, D.B. Rasher. (2018) Biodiversity enhances coral reef functioning across multiple scales.

TO BE SUBMITTED

(PDFs available upon request)

[Google Scholar](#) Citations: 1579, h-index: 13, i10-index: 16

TEACHING

Instructor

- 2017 Co-instructor, Structural Equation Modeling, PR Statistics, Port Talbot, UK. [Course materials](#)
- 2017 Instructor, Meta-analysis in Ecology (MSCI 698, Spring). Virginia Institute of Marine Science, The College of William & Mary
- 2017 Instructor, Structural Equation Modeling, Southampton University, UK. [Course materials](#)
- 2016 Instructor, Structural Equation Modeling. University of Göttingen, Germany. [Course materials](#)
- 2016 Instructor, Contemporary Topics in Ecology (MSCI 698, Spring). Virginia Institute of Marine Science, The College of William & Mary
- 2015 Instructor, Undergraduate Research (MSCI 490, Fall, Spring). The College of William & Mary
- 2014 Co-instructor, Seagrass Ecosystem Ecology (MSCI 398, Spring), The College & William & Mary. Part of networked class with two other universities. [Press release](#)
- 2012 Co-instructor, Dimensions of Biodiversity Distributed Graduate Seminar (MSCI 698). Virginia Institute of Marine Science. Part of networked class with 13 other universities

Undergraduate Mentees

Claire Murphy (2016-), Annie Innes-Gold (2017, NSF REU), Nina Lesser (2016-2017), Teddy Noll (2016-2017), Rachael Caron (2016-2017), Casey Maclean (2016-2017), Lauren Herbine (2014-2017, W&M Monroe Scholar), Rachel Wimmer (2014-2016), Paige Bippus (2014, NSF REU), David Godschalk (2014), Danielle Hall (2012-2014), Kyle Belfort (2012-2014), Sally Bornbusch (2012-2013), Kaitlyn Jenkins (2012-2013)

PRESENTATIONS

**Presenting author*

- 2018 "Status and Trends of Submersed Aquatic Vegetation (SAV) in Chesapeake Bay: A Synthesis" W.C. Dennison, **J.S. Lefcheck**, C. Gurbisz, R.J. Orth. (2018) [Invited panelist](#). Chesapeake Research and Modeling Symposium, Annapolis, MD.
- 2018 "Scaling up and digging deep: What new ideas about biodiversity can tell us about the functioning of natural systems." **J.S. Lefcheck**. (2018) [Invited Seminar](#), Smithsonian Environmental Research Center, Edgewater, MD.
- 2018 "High species richness enhances cover of a critical coastal habitat: Insight and mechanisms from 30 years of monitoring in Chesapeake Bay." **J.S. Lefcheck**, C.J. Patrick, D.J. Wilcox, R.R. Murphy, J. Keisman, D.E. Weller, W.C. Dennison, R.J. Orth. (2018) World Conference on Marine Biodiversity, Montreal, Canada.

Jonathan S. Lefcheck: Curriculum vitae

- 2018 “Scaling up and digging deep: What new ideas about biodiversity can tell us about the functioning of ecosystems.” **J.S. Lefcheck**. (2018) Invited Seminar, Duke University, Beaufort, NC.
- 2017 “From the land to the sea: how human activities affect submersed aquatic vegetation in Chesapeake Bay.” **J.S. Lefcheck**. (2017) Invited seminar, NOAA, Silver Spring, MD.
- 2017 “Scaling up and digging deep: What new ideas about biodiversity can tell us about the functioning of ecosystems.” **J.S. Lefcheck**. (2017) Invited seminar, Wood’s Hole Oceanographic Institute, Falmouth, MA.
- 2017 “Nutrient reductions promote Submersed Aquatic Vegetation: Thirty years of change in Chesapeake Bay.” **J.S. Lefcheck**, C.J. Patrick*, R.J. Orth, W.C. Dennison, D.J. Wilcox, R.R. Murphy, J. Keisman, C. Gurbisz, M. Hannam, J.B. Landry, K. A. Moore, C.J. Patrick, J. Testa, D.E. Weller, R.A. Batuik. (2017) 24th Coastal and Estuarine Research Federation Biennial Meeting, Providence, RI.
- 2017 “Pinfish incursion: ecosystem consequences for mid-Atlantic seagrass meadows.” J.P. Richardson*, R.J. Orth, **J.S. Lefcheck**. (2017) 24th Coastal and Estuarine Research Federation Biennial Meeting, Providence, RI.
- 2017 “Biodiversity in a changing world: from Amphipods to *Zostera*, and everything in between.” **J.S. Lefcheck**. (2017) Invited seminar, University of Connecticut, Avery Point, CT.
- 2017 “Reinventing biodiversity: From the very small to the very large.” **J.S. Lefcheck**. (2017) Invited seminar, University of North Carolina, Chapel Hill, NC.
- 2017 “Frontiers in biodiversity: New paradigms, challenges, and solutions.” **J.S. Lefcheck**. (2017) Invited seminar, University of Virginia, Charlottesville, VA.
- 2016 “Clearing the air about ‘multifunctionality’: what is it and what does it mean for ecosystem ecology?” **J.S. Lefcheck**. (2016) Invited seminar, University of Lund, Sweden.
- 2016 “Frontiers in biodiversity: From buckets to the biosphere.” **J.S. Lefcheck**. (2016) Invited seminar, University of Göttingen, Germany.
- 2015 “The bugs are back in town!” R.J. Orth*, S.R. Marion, **J.S. Lefcheck**. (2015) CERF 23rd Biennial Conference, Portland, OR.
- 2015 “Functional recovery of an epifaunal invertebrate community associated with a restored eelgrass bed.” **J.S. Lefcheck**, S.R. Marion, R.J. Orth. (2015) 100th Ecological Society of America Meeting, Baltimore, MD.
- 2015 “Top-down versus bottom-up control of a temperate eelgrass system: insights from a 15-year ecological survey.” **J.S. Lefcheck**, J.P. Richardson, J.E. Duffy. (2015) 45th Benthic Ecology Meeting, Quebec, Canada.
- 2014 “The ‘new’ diversity: global insights into the functional importance of biodiversity.” **J.S. Lefcheck**. (2014) Invited seminar, Colby College, Waterville, ME.
- 2014 “Biodiversity drives ecosystem multifunctionality: a meta-analysis.” **J.S. Lefcheck**, J.E.K. Byrnes, F. Isbell, L. Gamfeldt, J.N. Griffin, M. Hensel, B.J. Cardinale, D.U. Hooper, J.E. Duffy. (2014) 99th Ecological Society of America Meeting, Sacramento, CA.
- 2014 “Size structure drivers of crustacean grazer epifauna in a Chesapeake Bay *Zostera marina* bed.” Richardson, J. P.*, **J. S. Lefcheck**, S. L. Ziegler, J. E. Duffy. (2014) 43rd Benthic Ecology Meeting, Jacksonville, FL.
- 2013 “Functional diversity and richness drive ecosystem functioning in experimental estuarine communities.” **J.S. Lefcheck**, & J.E. Duffy. (2013) 42nd Benthic Ecology Meeting, Savannah, GA.
- 2013 “Bay scallop restoration and micropredators.” **J.S. Lefcheck**, J. van Montfrans, E. Schmitt, R.J. Orth, J.E. Duffy, M. Luckenbach. (2013) Virginia SeaGrant Symposium, Richmond, VA.

Jonathan S. Lefcheck: Curriculum vitae

- 2012 “Components of biodiversity in a Chesapeake Bay groundfish assemblage: A high-resolution analysis of patterns and drivers.” **J.S. Lefcheck**, A. Buchheister, S. Chak, T. Clardy, K.M. Laumann, P. Reynolds, K. Sobocinski, M. Stratton, J.E. Duffy. (2012) 97th Ecological Society of America Meeting, Portland, OR.
- 2012 “Biodiversity effects on provision of multiple ecosystem functions in marine systems: A meta-analysis.” **J.S. Lefcheck**, L. Gamfeldt, J.E.K. Byrnes, J.N. Griffin, M. O’Connor, B.J. Cardinale, J.E. Duffy. (2012) 41st Benthic Ecology Meeting, Norfolk, VA.

POSTERS

**Presenting author † Undergraduate co-author*

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- 2015 “Factors affecting trophic control of community structure and ecosystem functioning in experimental seagrass (*Zostera marina* L.) mesocosms.” D.R. Godschalk*, **J.S. Lefcheck**, J.E. Duffy. (2015) 45th Benthic Ecology Meeting, Quebec, Canada.
- 2015 “Changes in faunal community structure after heat induced die-offs in a Chesapeake Bay eelgrass bed (*Zostera marina* L.)” D.K. Hall*†, J.P. Richardson, J.E. Duffy, **J.S. Lefcheck**. (2015) 45th Benthic Ecology Meeting, Quebec, Canada.
- 2014 “Shifts in mesograzer community structure following two major eelgrass die-offs in the Chesapeake Bay.” Ziegler S. L.*†, **J. S. Lefcheck**, J. P. Richardson and J. E. Duffy. (2014) 43rd Benthic Ecology Meeting, Jacksonville, FL.
- 2013 “BioDiverse Perspectives: blogging to foster communication among graduate students.” **J.S. Lefcheck**, V. Bastazini, F. Halliday*, H. Burgess, C. Robinson, R. Sewell-Nesteruk, C. Maranto, J. Parrish. (2013) 98th Ecological Society of America Meeting, Minneapolis, MN.
- 2013 “Eelgrass and bay scallop restoration in Virginia’s coastal bays.” E.L. Schmitt*, R.J. Orth, M. Luckenbach, K.A. Moore, S.R. Marion, D.J. Wilcox, **J.S. Lefcheck**, J.E. Duffy, D.B. Parrish, S. Bonniwell, A. Curry, S. Fate, P. Smith, J. van Montfrans. (2013) 42nd Benthic Ecology Meeting, Savannah, GA.
- 2008 “Factors affecting trophic control of community structure and ecosystem functioning in experimental seagrass mesocosms.” **J.S. Lefcheck**, J.E. Duffy, J.P. Richardson. (2008) 41st American Geophysical Union Fall Meeting, San Francisco, CA.

AWARDS & HONORS

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- 2015 Thatcher Prize for Excellence in Graduate and Professional Study. The College of William & Mary. [Press release](#)
- 2013 Matthew Fontaine Maury Fellowship Award. Virginia Institute of Marine Science. Recognizes interdisciplinary achievements in marine and environmental scholarship.
- 2012 VIMS Dean’s Fellowship Award. Virginia Institute of Marine Science. Recognizes excellence in research.
- 2011 VIMS Council Fellowship Award. Virginia Institute of Marine Science. Recognizes excellence in research.
- 2010 Kelly Watson Fellowship Award. Virginia Institute of Marine Science. Tuition and stipend awarded for excellent performance in the first year of graduate school. [Press release](#)

SERVICE & MEMBERSHIPS

Reviewer: *Advances in Ecology, American Naturalist, Aquatic Ecology, Biological Conservation, Botanica Marina, Conservation Biology, Ecological Applications, Ecology, Ecology Letters, Environmental Conservation, Estuaries and Coasts, Frontiers in Plant Science, Functional Ecology, Global Ecology and Biogeography, Ideas in Ecology and Evolution, Journal of Experimental Marine Biology and Ecology, Journal of Ecology, Journal of Plant Ecology, Marine Ecology Progress Series, Methods in Ecology & Evolution, Nature, Nature Climate Change, Nature Communications, Nature*

Ecology & Evolution, Nature Scientific Reports, Oecologia, Oikos, Proceedings of the National Academy of Sciences, Proceedings of the Royal Society B, Science Advances | [Publons Profile](#)

WORKING GROUPS

- 2017-2018 sFDvent - A functional trait perspective on the global biodiversity of hydrothermal vent communities. German Center for Integrative Biodiversity Research (iDiv). Halle-Jena-Leipzig, Germany.
- 2016-2017 Submersed Aquatic Vegetation Synthesis Group (SAVSyn), Chesapeake Bay Program (EPA) and University of Maryland Center for Environmental Science. Annapolis, Maryland.
- 2013 Summer Institute, National Center for Ecological Analysis and Synthesis (NCEAS). University of California, Santa Barbara.
- 2011-2017 Partner, Zostera Experimental Network (ZEN, www.zenscience.org). Gloucester Point, Virginia.
- 2010-2011 Biodiversity and the functioning of ecosystems: Translating results from model experiments into functional reality, National Center for Ecological Analysis and Synthesis (NCEAS). University of California, Santa Barbara.

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