

Curriculum vitae – 13 July 2021

**AARON M. ELLISON**

**SENIOR RESEARCH FELLOW, EMERITUS**

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**Erdős number: 4**

**ORCID: 0000-0003-4151-6081**

**Fellow, Ecological Society of America**

**Certified Senior Ecologist, Ecological Society of America**

### **Education**

1982 – B.A. (East Asian studies/Asian philosophy), Yale University

1986 – Ph.D. (Ecology and evolutionary biology), Brown University

### **Honors and Awards**

1982 – University Fellowship, Brown University

1992 – Presidential Faculty Fellow, US National Science Foundation

2004 – Eminent Ecologist, Kellogg Biological Station

2008 – Distinguished Visiting Professor, University of Miami

2008 – Distinguished Ecologist, Michigan Technological University

2010 – Ledermann Lecturer in Natural History and Conservation Biology, University of Rhode Island

2012 – Elected Fellow, Ecological Society of America

2014 – Human Diversity Award (for Harvard Forest Summer Undergraduate Research Program), Organization of Biological Field Stations

2016 – Edward P. Bass Distinguished Visiting Environmental Fellow, Yale Institute for Biospheric Studies (for spring semester 2016)

2016 – Presidential International Fellowship (Visiting Professor), Chinese Academy of Sciences.

2016 – Forest Champion Award (to the Wildlands & Woodlands Team), New England Forestry Foundation

2022 – Visiting Fellow (Natural Sciences), Swedish Collegium for Advanced Study.

### **Positions Held**

**February 1980 – May 1980** – Assistant Curator in Invertebrate Zoology, Peabody Museum of Natural History, Yale University.

**June 1980 – May 1982** – Research Assistant, Yale University.

**September 1983 – May 1986** – Teaching Assistant, Brown University (*assisted in: Invertebrate Zoology, Field Ecology, Plant Diversity [Taxonomy], and Introductory Ecology*)

**July 1986 – July 1988** – Post-doctoral Research Associate and Lecturer, Section of Ecology and Systematics and Ecosystems Research Center, Cornell University (*courses taught: Introduction to Plant Ecology, Laboratory for Plant Ecology, Plant Ecology seminar*).

**September 1988 – August 1989** – Post-doctoral Research Associate, Organization for Tropical Studies, Costa Rica, and Department of Biology, Tulane University.

**September 1989 – August 1990** – Visiting Assistant Professor, Department of Biology, Swarthmore College (*courses taught: Introductory Ecology, Tropical Ecology and Conservation, Introductory Biology [ten lectures plus one laboratory section]*).

**September 1990 – June 1996** – Assistant Professor, Department of Biological Sciences, Mount Holyoke College (*courses taught: Ecology & Evolution, Advanced Ecology, Conservation Biology, Local Flora, Biomechanics, Biostatistics, Introduction to Environmental Studies, Senior Seminar in Environmental Decision Making.*).

**July 1993 – June 1996** – Marjorie Fisher Assistant Professor of Environmental Studies, Mount Holyoke College.

**November 1993 – June 2003** – Member, Five College Graduate Faculty, University of Massachusetts, Amherst, Massachusetts, Departments of Natural Resources Conservation, and Organismic and Evolutionary Biology.

**July 1996 – June 2001** – Marjorie Fisher Associate Professor of Environmental Studies and Associate Professor of Biological Sciences, Mount Holyoke College (tenured).

**July 2001 – June 2003** – Marjorie Fisher Professor of Environmental Studies and Professor of Biological Sciences, Mount Holyoke College.

**September 2001 – June 2002** – Charles Bullard Fellow, Harvard Forest, Harvard University.

**November 2006 – March 2019** – Adjunct Research Professor, Departments of Biology (2006 – present) and Environmental Conservation (2010 – 2016), University of Massachusetts.

**January – May 2016** – Edward Bass Distinguished Visiting Environmental Fellow, Yale Institute for Biospheric Studies and Department of Ecology and Evolutionary Biology, Yale University.

**June 2016 – May 2019** – Adjunct Research Professor, Tropical Forests and People Research Centre, Faculty of Arts, Business and Law, University of the Sunshine Coast, Maroochydore, Queensland, Australia.

**July 2002 – July 2021** – Senior Research Fellow, Department of Organismic and Evolutionary Biology, Harvard University, and Senior Ecologist, Harvard Forest.

**January 2018 – present** – Affiliate, Gund Institute for the Environment, University of Vermont, Burlington, Vermont, USA.

**March 2019 – present** – Founding Principal, Sound Solutions for Sustainable Science, LLC.

**July 2021 – present** – Associate of the Harvard Forest, Harvard University.

### **Administrative Experience**

**July 1991 – June 1993 and July 1996 – June 1999** – Chair, Program in Environmental Studies, Mount Holyoke College.

**August 1996 – August 2000** – Program Director, Mount Holyoke College's Howard Hughes Medical Institute Undergraduate Biological Sciences Education Program.

**July 1998 – June 2001** – Director, Mount Holyoke College Center for Environmental Literacy.

**September 1998 – June 2001** – Chair, Mount Holyoke Science Complex Project (in charge of design and construction of a \$40 Million, 4 building, Unified Science Complex).

**July 1999 – June 2001** – Sponsored Research Officer and Chair of the Science Advisory Board (Chair of Science Department Chairs/Associate Dean of Science), Mount Holyoke College.

**August 2004 – July 2019** – Program Director, Harvard Forest Summer Research Program.

**November 2018 – June 2021** – Deputy Director, Harvard Forest.

### **International Advisory Boards**

**September 2012 – August 2020** – Southwest Experimental Garden Array (SEGA): Chair of the Data Management Committee (2012 – 2016); Member of the Scientific Advisory Committee (2015 – 2020).

**February 2015 – September 2019** – Biodiversity Exploratories (Germany): Chair of Advisory Board.

**July 2015 – June 2019** – Luquillo LTER (Puerto Rico): Member of the Advisory Committee.

**March 2016 – February 2019** – Fraser Island Research Station Advisory Committee, University of the Sunshine Coast, Queensland, Australia.

**October 2016 – September 2020** – Environmental Data Initiative (EDI); Chair of the Advisory Board.

### **Journal Editorships**

**1995 – 2004** – Board of Editors, *American Journal of Botany*.

**1995** – Guest Editor, *Ecological Applications* (special section on Bayesian statistics)

**1998 – 2001** – Founding Editor, *Ecological Archives*

**2000** – Guest Editor, *Restoration Ecology* (special section on mangrove restoration)

**2005 – 2008** – Board of Editors, *Ecology Letters*.

**2002 – 2010** – Associate Editor-in-Chief, *Ecology*

**2002 – 2008** – Associate Editor-in-Chief, *Ecological Monographs*

**2009 – 2015** – Editor-in-Chief, *Ecological Monographs*

**2012 – 2017** – Board of Editors, *PeerJ*

**2018** – Guest Editor, *Forests* (special issue on causes and consequences of biodiversity in forest ecosystems)

**2018 – 2021** – Senior Editor, *Methods in Ecology and Evolution*

**2021 – present** – Executive Editor, *Methods in Ecology and Evolution*

### **Research Grants** (total >US \$25M since 1983)

**September 1983** – University Fellowship, Brown University.

**July 1984** – Sigma Xi Grant-in-Aid of research, “Morphological plasticity in *Salicornia europaea*: the role of conspecific density and intraspecific competition for light.”

**May 1985** – American Museum of Natural History: Theodore Roosevelt Memorial Fund for Research on North American Fauna, “Multiple host use over a temporal gradient by the case-bearing moth, *Coleophora caespititiella* (Zeller).”

**August 1986** – Hatch Grant NY(C)-183419, “Plant architecture and the evolution of self-thinning in plant monocultures,” 3 years.

**March 1987** – Smithsonian Institution travel grant, National Museum of Natural History, Caribbean Coral Reef Ecosystem Project, “An experimental study of interactions between mangroves and mangrove root-fouling organisms.”

**June 1987** – EARTHWATCH (Center for Field Research), “An experimental study of interactions between mangrove trees and their intimately associated epifauna,” 1 year (1/88-12/88).

**November 1987** – Smithsonian Institution Fellowship, National Museum of Natural History, Caribbean Coral Reef Ecosystem Project, “Interactions between mangrove plants and their associated fauna.”

**January 1988** – National Geographic Society, “Interactions between mangrove trees and their intimately-associated epifauna.”

- November 1988** – Smithsonian Institution Fellowship, National Museum of Natural History, Caribbean Coral Reef Ecosystem Project, “Potential facilitations between sponges and red mangroves (*Rhizophora mangle*).”
- January 1990** – Swarthmore College Committee on Faculty Research, “Interactions between mangroves and their associated fauna.”
- July 1990** – International Business Machines Corporation (IBM), “Biology Curriculum Innovation Study (BioCIS)” (development of instructional software for biology and environmental studies). Co-principal investigator, 2 years, \$125,000.
- November 1990** – Howard Hughes Medical Institute Research Grant, “Population Biology of spring ephemeral communities across a successional sequence in northern New England,” 1 year.
- December 1990** – Mount Holyoke College Faculty Research Grant, “Continuation of long-term demographic studies of mangrove-root epibenthic communities,” 1 year.
- December 1990** – Smithsonian Institution Fellowship, National Museum of Natural History, Caribbean Coral Reef Ecosystem Project, “Interactions between mangroves and root-fouling epibionts.”
- April 1991** – Howard Hughes Medical Institute Research Grant, “Reproductive phenology and seed dispersal of deciduous forest understory plant communities.”
- May 1991** – National Science Foundation, “Animal-plant interactions in mangrove communities,” BSR-91-07195, 3½ years (12/1991-5/1995), \$162,000.
- May 1992** – National Science Foundation, Presidential Faculty Fellow Award, “Marine Environmental Ecology: Teaching, Research and Conservation,” DEB-92-53743, 5 years (9/1992-9/1997), \$500,000.  
     + **REU Supplement:** DEB 97-41904; \$5,000.
- May 1996** – Howard Hughes Medical Institute, “Undergraduate education at Mount Holyoke College,” HHMI 71196-505002, 4 years (8/1996-8/2000), \$900,000.
- October 1996** – Orchards Golf Course, South Hadley, Massachusetts, “Environmental impact assessment of the golf course irrigation project on the Stony Brook watershed,” 1 year (10/1996-9/1997), \$6,700.
- May 1998** – National Science Foundation, “Inquiline communities in changeable pitchers: do nutrients link community assembly to dynamic habitats?” DEB 98-05722, 3½ years (9/98-2/02), \$149,000.  
     + **REU Supplement:** DEB 99-42207; \$5,000.  
     + **REU Supplement:** DEB 00-xxxxx; \$4,432.  
     + **REU Supplement:** DEB 01-15145; \$6,000.
- May 1999** – Massachusetts Heritage and Endangered Species Program, “Ant species diversity in Massachusetts bogs,” 1 year (5/1999-4/2000), \$2,931.
- May 1999** – Mount Holyoke College, Ellen P. Reese Fund, “Restoration ecology of Hawley Bog,” 1 year (5/1999-4/2000), \$3,000.
- September 1999** – Mellon Foundation, “Center for Environmental Literacy at Mount Holyoke College,” 3 years (9/1999-8/2002), \$300,000.
- May 2000** – Mount Holyoke College, Ellen P. Reese Fund, “Seed ecology of the flora of Hawley Bog,” 1 year (5/2000-4/2001), \$3,000.
- May 2000** – Mount Holyoke College, Faculty Grant, “Leaf trait relationships in wetlands: do global patterns apply?” 1 year (5/2000-4/2001), \$2,500.

- May 2000** – Massachusetts Natural Heritage and Endangered Species Program, “Ant species diversity in bogs of Martha’s Vineyard and Nantucket,” 1 year (5/1999-4/2000), \$338.
- July 2000** – National Science Foundation, “Biocomplexity: Incubation activity: A synthetic approach to phytotelmata communities,” (co-PI with Tom Miller [Florida State; PI] & Nicholas Gotelli [Vermont]), DEB 00-83617, 2 years (8/2000-7/2002), \$92,034.
- March 2001** – Charles Bullard Fellowship, Harvard University, 1 year (9/2001-5/2002), \$30,000.
- October 2002** – National Science Foundation, SGER DEB 03-01361, “Mechanisms of community re-assembly after a catastrophic fire,” (co-PI with Nathan Sanders [Humboldt State, PI], Erik Jules [Humboldt State], & Nicholas Gotelli [Vermont]), 1 year (1/2003-12/2003), \$8,000 sub-award of \$50,000 total.
- November 2002** – National Science Foundation, “Effects of nutrient stress on a co-evolved food web,” DEB 02-35128, 3 years (4/1/2003-3/31/2006), \$322,466.  
 + **REU Supplement:** DEB 04-22750; \$7,347.  
 + **REU Supplement:** DEB 05-20792; \$7,000.  
 + **RET Supplement:** DEB 05-28625; \$10,560.
- December 2002** – Harvard Center for the Environment, “Ecological and environmental impacts of the extinction of core species,” 2 years (12/3/2002 - 11/1/2004), \$46,000.
- November 2003** – National Science Foundation, “FSML: Infrastructure for whole-plant biology and experimental plant ecology at the Harvard Forest,” DBI 03-30605, 2 years (12/15/2003-12/14/2005), \$132,148.  
 + **REU Supplement:** DEB 04-22745; \$7,674.  
 + **REU Supplement:** DEB 05-20794; \$10,005.  
 + **REU Supplement:** DEB 06-18448; \$10,691.
- March 2004** – National Science Foundation, “Nutrient analysis equipment for community, ecosystem, hydrological, and physiological research at Harvard Forest,” DBI 04-00759, 3 years (4/1/2004-3/31/2007), \$61,810.
- March 2005** – National Science Foundation, “REU Site: Harvard Forest Program in Forest Ecology: Multi-scale investigations of a forested ecosystem in a changing world,” DBI 04-52254, 5 years (3/8/2005 -3/7/2010), \$732,042.  
 + **REU Evaluation Supplement:** DEB 08-12997; \$13,606.
- November 2005** – National Science Foundation, “Moths, ants, and carnivorous plants: the spatial dimension of species interactions,” DEB 05-41680, 5 years (3/1/2006-2/28/2011), \$585,000.  
 + **REU Supplement:** DEB 07-22588; \$7,500.  
 + **RAHSS Supplement:** DEB 08-02665; \$5,692.  
 + **RET Supplement:** DEB 08-16508; \$10,000.  
 + **RET Supplement:** DEB 09-02592; \$10,000.  
 + **REU Supplement:** DEB 10-25362; \$7,000.  
 + **REU Supplement:** DEB 11-10434; \$7,000.
- May 2006** – National Science Foundation, “LTER-IV: Integrated studies of the drivers, dynamics, and consequences of landscape change in New England,” (co-PI with David R. Foster [PI], Kathleen Donohue, J. William Munger, & Steven Wofsy), DEB 06-20443, 6 years (10/1/2006 - 9/30/2012), \$4,920,000.
- May 2007** – Massachusetts Natural Heritage and Endangered Species Program, “Ants of Massachusetts,” 1 year (5/1/2007-4/31/2008), \$2,000.
- May 2007** – Nantucket Biodiversity Initiative, “Ants of Massachusetts,” 1 year (5/1/2007-4/31/2008), \$1,000.

- May 2007** – Conservation Research Foundation, “Ants of Massachusetts,” 1 year (5/1/2007-4/31/2008), \$4,000.
- May 2007** – Harvard University, Museum of Comparative Zoology, Arthur M. Green Fund for Research, “Ants of Massachusetts,” 1 year (5/1/2007-4/31/2008), \$3,132.
- October 2007** – Department of Energy, “Impacts of elevated temperature on ant species, communities and ecological roles at two temperate forests in eastern North America,” (co-PI with Robert Dunn [North Carolina State; PI], Nathan Sanders [Tennessee], & Nicholas Gotelli [Vermont]), DE-FG02-08ER64510, 4 years (1/1/2008-12/31/2011), \$3,029,934 (Harvard sub-award : \$1,322,000).
- September 2008** – Department of Energy, “Effects of warming on tree species’ recruitment in deciduous forests of the eastern United States,” (co-PI with Jerry Melillo [MBL; PI MBL], Jim Clark [Duke], & Jacqueline Mohan [Georgia]), 4 years (1/1/2008-12/31/2011), (Harvard Sub-award: \$292,151).
- February 2009** – Department of Energy, “Improving forecasts of species responses to climate change: hierarchical Bayesian analysis of tree distributions across space and time,” NICCR, 2 years (4/1/2009-3/1/2011), \$163,145
- March 2009** – National Science Foundation, “Dissertation research: Testing the effects of priors on prediction error in Bayesian demographic models,” (Doctoral Dissertation Improvement Grant of Ph.D. student Sydne Record), 1 year, (6/1/2009-5/31/2010), DEB 09-09604, \$12,715.
- September 2009** – National Science Foundation, “FSML: Infrastructure for molecular and microbial ecology at the Harvard Forest,” DBI 09-30516, 2 years (9/15/2009-9/14/2011), \$348,259.
- + **REU Supplement:** DEB 11-11158; \$22,718.
- + **REU Supplement:** DEB 12-39937; \$13,938.
- May 2010** – National Science Foundation, “REU Site: Harvard Forest Summer Research Program in Forest Ecology 2010-2014: Ecological data-model fusion and environmental forecasting for the 21<sup>st</sup> century,” DBI 10-03938, 5 years (6/1/2010-5/31/2015), \$524,612.
- + **ROA Supplement:** DEB 11-07917; \$24,998.
- September 2010** – NASA, “GCCE: Data-model fusion and forecasting 21<sup>st</sup>-century environmental change in northeastern North America,” NNX10AT52A, 3 years (12/1/2010-11/31/2013), \$420,715.
- September 2010** – USDA Forest Service, “Harvard Forest wood energy demonstration project,” Northeastern Area State and Private Forestry, 3 years (10/1/2010-9/30/2014), \$200,000.
- January 2011** – LTER Network Office, “LTER Synthesis Working Group: State changes and threshold dynamics,” 1 year (1/1/2011-12/31/2011), \$12,000.
- April 2011** – Massachusetts Clean Energy Center, Commonwealth Wind Incentive Program, “Harvard Forest wind turbine project,” 21 months (11/1/2010-8/1/2012), \$44,000.
- September 2011** – National Science Foundation, “Dimensions of Biodiversity: Collaborative Research: The climate cascade: functional and evolutionary consequences of climatic change on species, trait, and genetic diversity in a temperate ant community,” DEB 11-36646, 4 years (1/1/2012-12/31/2015), \$614,559.
- June 2012** – National Science Foundation, “FSML: Walk-up towers for research, education, communication, and outreach at the Harvard Forest,” DBI 12-24437, 2 years (9/1/2012-8/31/2014), \$347,764.
- + **RAHSS Supplement:** DBI 13-41121; \$5,479.

+ REU Supplement: DBI 13-41122; \$13,188.

+ REU Supplement: DBI 14-46653; \$12,742.

+ REU Supplement: DBI 15-35283; \$10,748.

**July 2012** – National Science Foundation, “Collaborative Research: Forecasting and forestalling tipping points in an aquatic ecosystem,” DEB 11-44056, 3 years (9/1/2012-8/31/2015), \$193,518.

+ REU Supplement: DEB 15-18653; \$6,250

**July 2012** – National Science Foundation, “Harvard Forest LTER V: New science, synthesis, scholarship, and a strategic vision for society,” DEB 12-37491, 6 years (10/1/2012-9/31/2018), \$5,880,000 (co-PI with David R. Foster [PI]).

**February 2015** – National Science Foundation, “REU Site: A forest full of Big Data: the Harvard Forest Summer Research Program in Ecology 2015-2019,” DBI 14-59519, 5 years (3/1/2015-2/29/2020), \$776,713.

**May 2015** – National Science Foundation, “SI2-SSI: Collaborative Research: Bringing End-to-End Provenance to Scientists,” ACI 14-50277, 3 years (5/1/2015-4/31/18), \$1,422,728.

**December 2015** – VolkswagenStiftung, “GeoBio-Interactions: contributions to climatic change of the relations between activities of red wood ants (*Formica rufa*-group) and tectonic processes,” 2 years (1/1/2016-12/31/2017), €92,800.

**January 2016** – Chinese Academy of Sciences, Presidential International Fellowship Initiative. 2 months (8/15/2016-10/15/2016), ¥100,000.

**September 2018** – National Science Foundation, “1000 species and counting: harnessing the power of herbarium digitization, crowdsourcing, and phylofloristics to assess and predict phenological responses,” DEB 17-54584, 3 years (9/1/2018-8/31/2021), \$586,474 (co-PI with Charles Davis [PI]).

**July 2021** – National Science Foundation, “Collaborative Research: MRA: Modeling and forecasting phenology across spatiotemporal and taxonomic scales using NEON, USA-NPN, and mobilized digital herbarium data,” DEB 21-05932, 5 years (7/1/2021-6/30/2026), \$1,400,000 (other senior personnel with Susan Mazer, Charles Davis, and Sydne Record [collaborative PIs]).

**January 2022** – Swedish Collegium for Advanced Study, Visiting Fellow (Natural Sciences). 4 months (2/14/2022-6/17/2022), SEK180,000.

**Publications and Products** (including: Scientific and technical books; Peer-reviewed journal articles; Book chapters, technical reports, and scientific essays; Creative writing; Exhibitions of photography, art, and architecture; Book reviews; and Meeting abstracts)

#### **Scientific and technical books**

- 1 Gotelli, N. J. & A. M. Ellison. 2004/2012. *A Primer of Ecological Statistics* (1<sup>st</sup> and 2<sup>nd</sup> editions). Sinauer Associates, Sunderland, Massachusetts, USA.
- 2 Ellison, A. M., N. J. Gotelli, E. J. Farnsworth, & G. D. Alpert. 2012. *A Field Guide to the Ants of New England*. Yale University Press, New Haven, Connecticut, USA.
- 3 Shavit, A. & A. M. Ellison (editors). 2017. *Stepping in the Same River Twice: Replication in Biological Research*. Yale University Press, New Haven, Connecticut, USA.
- 4 Ellison, A. M. & L. Adamec (editors). 2018/2019. *Carnivorous Plants: Physiology, Ecology, and Evolution* (cloth and paperback editions). Oxford University Press, Oxford, UK.
- 5 Ellison, A. M. & F. S. Gilliam (editors). 2019. *Causes and Consequences of Species Diversity in Forest Ecosystems*. MDPI Books, Basel, Switzerland.

6 Ellison, A. M. & N. J. Gotelli. 2021. *Scaling in Ecology with a Model System*. Princeton University Press (Monographs in Population Biology no. 64), Princeton, New Jersey, USA.

#### Peer-reviewed journal articles

- 1 Ellison, A. M. & L. W. Buss. 1983. A naturally occurring developmental synergism between the cellular slime mold, *Dictyostelium mucoroides* and the fungus, *Mucor hiemalis*. *American Journal of Botany* 70: 298-302.
- 2 Metcalfe, W. S., A. M. Ellison, & M. D. Bertness. 1986. Survivorship and spatial development of *Spartina alterniflora* Loisel. (Gramineae) seedlings in a New England salt marsh. *Annals of Botany* 58: 249-258.
- 3 Ellison, A. M., M. D. Bertness, & T. Miller. 1986. Seasonal patterns in the belowground biomass of *Spartina alterniflora* Loisel. (Gramineae) across a tidal gradient. *American Journal of Botany* 73: 1548-1554.
- 4 Bertness, M. D., C. Wise, & A. M. Ellison. 1987. Consumer pressure and seed set in a salt marsh perennial plant community. *Oecologia* 71: 190-200.
- 5 Ellison, A. M. 1987. Effects of competition, disturbance, and herbivory on *Salicornia europaea*. *Ecology* 68: 576-586.
- 6 Ellison, A. M. 1987. Density-dependent dynamics of *Salicornia europaea* monocultures. *Ecology* 68: 737-741.
- 7 Bertness, M. D. & A. M. Ellison. 1987. Determinants of pattern in a New England salt marsh plant community. *Ecological Monographs* 57: 129-147.
- 8 Ellison, A. M. 1987. Effects of seed dimorphism on the density-dependent dynamics of *Atriplex triangularis* (Chenopodiaceae). *American Journal of Botany* 74: 1280-1288.
- 9 Ellison, A. M. & K. J. Niklas. 1988. Branching patterns of *Salicornia europaea* (Chenopodiaceae) at different successional stages: a comparison of theoretical and real plants. *American Journal of Botany* 75: 501-512.
- 10 Ellison, A. M. & K. J. Niklas. 1988. Branching patterns of *Salicornia europaea* (Chenopodiaceae) at different successional stages: a comparison of theoretical and real plants. *American Journal of Botany* 75: 501-512.
- 11 Ellison, A. M. 1989. Morphological determinants of self-thinning in plant monocultures and a proposal concerning the role of self-thinning in plant evolution. *Oikos* 54: 287-292.
- 12 Ellison, A. M., & C. D. Harvell. 1989. Size hierarchies in *Membranipora membranacea*: do colonial animals follow the same rules as plants? *Oikos* 55: 349-355.
- 13 Ellison, A. M. & E. J. Farnsworth. 1990. The ecology of Belizean mangrove-root fouling communities: I. Epibenthic fauna are barriers to isopod attack of red mangrove roots. *Journal of Experimental Marine Biology and Ecology* 142: 91-104.
- 14 Ellison, A. M. & D. Vam Vikiates. 1991. Evolutionarily stable morphologies in mixed populations of leafless and leafy peas. *Evolution* 45: 40-48.
- 15 Ellison, A. M. 1991. Life-history and feeding behaviour of case-bearing moths (Lepidoptera: Coleophoridae) in a New England salt marsh. *Environmental Entomology* 20: 857-864.
- 16 Denslow, J. S., E. Newell, & A. M. Ellison. 1991. The effect of palms on growth and survival of tree seedlings in a rain forest understory. *Biotropica* 23: 225-234.
- 17 Farnsworth, E. J. & A. M. Ellison. 1991. Patterns of herbivory in Belizean mangrove swamps. *Biotropica* 23: 555-567.



- 18 Ellison, A. M. & E. J. Farnsworth. 1992. Belizean mangrove-root epibionts: patterns of  
distribution and abundance, and effects on root growth. *Hydrobiologia* 247: 87-98.
- 19 Ellison, A. M., J. S. Denslow, B. Loiselle & D. Brenés M. 1993. Seed and seedling ecology  
of neotropical Melastomataceae. *Ecology* 74: 1733-1749.
- 20 Ellison, A. M., K. J. Niklas & S. Shumway. 1993. Xylem vascular anatomy and water  
transport of *Salicornia europaea*. *Aquatic Botany* 45: 325-339.
- 21 Ellison, A. M. & E. J. Farnsworth. 1993. Seedling survivorship, growth, and response to  
disturbance in Belizean mangal. *American Journal of Botany* 80: 1137-1145.
- 22 Farnsworth, E. J. & A. M. Ellison. 1993. Dynamics of herbivory in Belizean mangal.  
*Journal of Tropical Ecology* 9: 435-453.
- 23 Ellison, A. M., P. M. Dixon, & J. Ngai. 1994. A null model for neighborhood models of  
plant competitive interactions. *Oikos* 71: 225-238.
- 24 Ellison, A. M. & B. L. Bedford. 1995. Response of a wetland vascular plant community to  
disturbance: a simulation study. *Ecological Applications* 5: 109-123.
- 25 Farnsworth, E. J. & A. M. Ellison. 1996. Scale-dependent spatial and temporal variability  
in biogeography of mangrove-root epibiont communities. *Ecological Monographs* 66: 45-66.
- 26 Murren, C. J., & A. M. Ellison. 1996. Effects of habitat, plant size, and floral display on  
male and female reproductive success of the neotropical orchid *Brassavola nodosa*.  
*Biotropica* 28: 30-41.
- 27 Farnsworth, E. J. & A. M. Ellison. 1996. Sun-shade adaptability of the red mangrove,  
*Rhizophora mangle* (Rhizophoraceae): changes through ontogeny at several levels of  
biological organization. *American Journal of Botany* 83: 1131-1143.
- 28 Ellison, A. M. & E. J. Farnsworth. 1996. Spatial and temporal variability in growth of  
*Rhizophora mangle* saplings on coral cays: links with variation in insolation, herbivory,  
and local sedimentation rate. *Journal of Ecology* 84: 717-731.
- 29 Ellison, A. M. 1996. Bayesian inference for ecological research and environmental  
decision-making. *Ecological Applications* 6: 1036-1046.
- 30 Ellison, A. M. & E. J. Farnsworth. 1996. Anthropogenic disturbance to Caribbean  
mangrove ecosystems: past impacts, present trends, and future predictions. *Biotropica* 28:  
549-565.
- 31 Ellison, A.M., E. J. Farnsworth, & R.R. Twilley. 1996. Facultative mutualism between red  
mangroves and root-fouling sponges in Belizean mangal. *Ecology* 77: 2431-2444.
- 32 Farnsworth, E. J., A. M. Ellison, & W.-K. Gong. 1996. Elevated CO<sub>2</sub> alters anatomy,  
physiology, growth and reproduction of red mangrove (*Rhizophora mangle* L.). *Oecologia*  
108: 599-609.
- 33 Farnsworth, E. J. & A. M. Ellison. 1997. Global patterns of predispersal seed predation on  
mangroves and its effects on seedling regeneration. *Biotropica* 29: 318-330.
- 34 Farnsworth, E. J. & A. M. Ellison. 1997. Global conservation ecology of mangrove  
ecosystems. *Ambio* 26: 328-334.
- 35 Ellison, A. M. & E. J. Farnsworth. 1997. Simulated sea-level change alters anatomy,  
physiology, growth, and reproduction of red mangrove (*Rhizophora mangle* L.). *Oecologia*  
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### Art and architecture

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- 2 October 2017 – November 2018: *Hemlock Hospice* installation and exhibition, co-designed with David Buckley Borden, Harvard Forest, Petersham, Massachusetts.
- Satellite exhibitions:**
- +March 5–19, 2018 in group exhibition, **Shifting Sites**, Rhode Island School of Design, Department of Landscape Architecture, Providence, Rhode Island.
  - +March 30–May 17, 2018, in **Proposed Futures: Then and Now**, Urbano Project, Jamaica Plain, Massachusetts.
  - +May 11–May 31, 2018 at **Gilsand Farm Audubon Center**, Falmouth, Maine.
- 3 November 2018 – December 2018: *Warming Warning* installation and exhibition, co-designed with David Buckley Borden, Harvard University, Science Center Plaza, Cambridge, Massachusetts.
- +March 2019 → Permanently installed at Harvard Forest's Experimental Farm, Petersham, Massachusetts
- 4 October 2019 – March 2020: *Novel Ecosystem Generator*, co-designed with David Buckley Borden, in group exhibition, **Art's Work in Biotechnology: Shaping Our Genetic Futures**, North Carolina State University, Genetic Engineering and Society (GES) Center.
- 5 November 2019 → *Untitled #17 (Beige Series)*. Harvard Forest, Fisher Museum.
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- 2 Review of *Once Upon a Time I Lived on Mars: Space exploration, and life on Earth*, by Kate Greene.
- 3 Review of *Balzac's Lives*, by Peter Brooks.
- 4 Review of *The Kissing Bug*, by Daisy Hernández.
- 5 Review of *Mercury Rising*, by Jeff Shesol.
- 6 Review of *How to Make an Apple Pie from Scratch*, by Harry Cliff.
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- 118 Del Toro, I., & A. M. Ellison. 2011. Ant species diversity along an elevational gradient in the northeastern United States can be used to predict species diversity across a latitudinal gradient. (ESA, 2011).
- 119 Farnsworth, E. J., A. A. Barker Plotkin, & A. M. Ellison. 2012. Seed bank, seed rain, and vegetation dynamics in *Tsuga canadensis* stands: reorganization of forests after foundation species loss due to logging or simulated attack by *Adelges tsugae*. (23<sup>rd</sup> annual Harvard Forest Ecology Symposium, Petersham, Massachusetts).
- 120 Lustenhouwer, M., L. Nicoll, & A. M. Ellison. 2012. Microclimatic effects of the loss of a foundation species from New England forests. (23<sup>rd</sup> annual Harvard Forest Ecology Symposium, Petersham, Massachusetts).
- 121 Record, S., A. M. Ellison, M. Fitzpatrick, S. Veloz, & A. Finley. 2012. Random spatial effects improve projections of tree distribution models hindcasted across eight millennia. (23<sup>rd</sup> annual Harvard Forest Ecology Symposium, Petersham, Massachusetts).
- 122 Record, S., N. Charney, R. M. Zakaria, & A. M. Ellison. Potential geographic distribution of *Rhizophora apiculata* Blume under different future climate change and sea level rise scenarios. (23<sup>rd</sup> annual Harvard Forest Ecology Symposium, Petersham, Massachusetts).
- 123 Gotelli, N. J., & A. M. Ellison. 2012. Reconciling museum records and ecological surveys in biogeographic analyses of New England's ant fauna. (ESA, 2012).
- 124 Baiser, B., H. L. Buckley, N. J. Gotelli, & A. M. Ellison. 2012. Predicting food-web structure with metacommunity models. (ESA, 2012).
- 125 Ellison, A. M., E. R. Boose, M. Friedl, C. M. Hart, B. S. Lerner, N. Nkongolo, L. J. Osterweil, M. V. Patel, A. D. Richardson, & J. Tang. 2012. Group projects and group

- mentorship: building research teams and building capacity at the Harvard Forest summer research program in ecology. (ESA, 2012).
- 126 Ribbons, R. R., N. J. Sanders, A. M. Ellison, & A. T. Classen. Community and ecosystem responses to experimental ant and forest manipulations. (ESA, 2012).
- 127 Ellison, A. M., & N. J. Gotelli. 2012. Diversity and distribution of ants in New England: linking museum records and ecological surveys in biogeographic analyses of a regional ant fauna. (EntSoc, 2012).
- 128 Pelini, S. L., S. E. Diamond, L. M. Nichols, A. M. Ellison, N. J. Gotelli, N. J. Sanders, & R. R. Dunn. 2012. Warm ants: ant responses to warming in low and high latitude eastern U.S. Forests. (EntSoc, 2012).
- 129 Boose, E., L. Clarke, A. M. Ellison, B. Lerner, & L. Osterweil. 2013. The analytic web. (24<sup>th</sup> annual Harvard Forest Ecology Symposium, Petersham, Massachusetts).
- 130 Crone, E., R. Zhang, A. Jäkäläniemi, & A. M. Ellison. How important is “colored” stochasticity for plant population dynamics? (24<sup>th</sup> annual Harvard Forest Ecology Symposium, Petersham, Massachusetts).
- 131 Hassabelkreem, A., & A. M. Ellison. 2013. Applicability of indicator species in long-term monitoring of ecosystems dynamics - Case of amphibians of Harvard Forest. (24<sup>th</sup> annual Harvard Forest Ecology Symposium, Petersham, Massachusetts).
- 132 Record, S., N. Charney, R. M. Zakaria, & A. M. Ellison. 2013. Projecting global mangrove species and community distributions under climate change. (24<sup>th</sup> annual Harvard Forest Ecology Symposium, Petersham, Massachusetts).
- 133 Ribbons, R., A. M. Ellison, N. J. Sanders, & A. T. Classen. 2013. Community and ecosystem responses to experimental ant and forest manipulations. (24<sup>th</sup> annual Harvard Forest Ecology Symposium, Petersham, Massachusetts).
- 134 Silva, R., C. Brandão, I. Del Toro, & A. M. Ellison. 2013. Ant functional diversity in temperate-zone forests: a comparison with Neotropical communities. (24<sup>th</sup> annual Harvard Forest Ecology Symposium, Petersham, Massachusetts).
- 135 Ellison, A. M., & E. J. Farnsworth. 2013. The ants of Rhode Island: historical records and new observations. (Northeast Natural History Conference, 2013).
- 136 Ellison, A. M., N. J. Gotelli, & M. C. Fitzpatrick. 2013. Forecasting species distributions: lessons from ants. (Northeast Natural History Conference, 2013).
- 137 Baiser, B., N. Whitaker, & A. M. Ellison. 2013. Foundation species in food webs. (ESA, 2013).
- 138 Boose, E. R., B. S. Lerner, L. J. Osterweil, & A. M. Ellison. 2013. Retracing our steps in the analysis of data. (ESA, 2013).
- 139 Ellison, A. M., N. J. Gotelli, N. N. Hsiang, A. B. Maidman, & M. Lavine. 2013. *k*-tree density estimation from sparse nearest-neighbor data. (ESA, 2013).
- 140 Silva, R. R., I. Del Toro, C. R. F. Brandão, & A. M. Ellison. 2013. Ant functional diversity in temperate-zone forests: a comparison with Neotropical ants. (ESA, 2013).
- 141 Hassabelkreem, A. A., & A. M. Ellison. 2013. Use of indicator species in monitoring environmental changes: lessons from the past to inform the future. (20<sup>th</sup> International Conference on Environmental Indicators – ICEI 2013).
- 142 Jäkäläniemi, A., E. E. Crone, A. Ellison, P. Lesica, & R. Primack. 2013. Delayed costs of reproduction in long demographic time series in natural plant populations. (5<sup>th</sup> International Orchid Conservation Congress – IOCC 5).

- 143 Ellison, A. M., M. Lavine, P. B. Kerson, A. A. Barker Plotkin, & D. A. Orwig. 2014. Building a foundation: land-use history and dendrochronology reveal temporal dynamics of a *Tsuga canadensis* (Pinaceae) forest. (25<sup>th</sup> annual Harvard Forest Ecology Symposium, Petersham, Massachusetts).
- 144 Ellison, A. M., & J. Kendrick. 2014. Isolating the ecosystem effects of ant community change on forest ecosystem processes following hemlock loss (25<sup>th</sup> annual Harvard Forest Ecology Symposium, Petersham, Massachusetts).
- 145 Boose, E., B. Lerner, & A. M. Ellison. 2014. Collecting and visualizing data provenance in R. (25<sup>th</sup> annual Harvard Forest Ecology Symposium, Petersham, Massachusetts).
- 146 Ellison, A. M. 2014. Statistical software and ecology: paths and impediments for scientific progress and thought. (ESA, 2014).
- 147 Miller, K. A., C. Penick, A. Nguyen, A. M. Ellison, N. J. Gotelli, & S. H. Cahan. 2014. Variation in worker C:N:P stoichiometry and energy storage across a climate gradient in the *Aphaenogaster rudis* species complex. (EntSoc, 2014).
- 148 Ellison, A. M. 2014. Foundation species in forests of the Americas. (ILTER-All-Scientists Meeting of the Americas, 2014).
- 149 Buckley, H. L., B. S. Case, & A. M. Ellison. 2015. Using codispersion analysis to quantify forest spatial pattern. (26<sup>th</sup> annual Harvard Forest Ecology Symposium, Petersham, Massachusetts).
- 150 Ellison, A. M., B. Rose, & M. Patel. 2015. The Harvard Forest Summer Research Program in Ecology: 25 years of synergy with the Harvard Forest LTER. (26<sup>th</sup> annual Harvard Forest Ecology Symposium, Petersham, Massachusetts).
- 151 Degrassi, A., A. M. Ellison, & N. J. Gotelli. 2015. Effects of hemlock woolly adelgid on small mammal richness and community assemblages in eastern hemlock forests. (ESA, 2015).
- 152 Ellison, A. M., X. Jiang, & M. K. Lau. 2015. The emergence of ecology and the challenges of modernism. (ESA, 2015).
- 153 Lau, M. K., & A. M. Ellison. 2015. Temporal scales of coupled ecosystem processes provide a benchmark for alternate ecosystem states: photosynthesis and decomposition in a model micro-ecosystem. (ESA, 2015).
- 154 McCabe, T., A. M. Ellison, S. D. Frey, A. R. Contosta, & S. Record. 2015. Ant community level response to soil warming and nitrogen addition in temperate forests. (ESA, 2015).
- 155 Miller, K., C. Penick, A. M. Ellison, N. J. Gotelli, & S. Helms Cahan. 2015. Variation in C:N:P stoichiometry across a climate gradient in worker ants of the *Aphaenogaster rudis* species complex. (ESA, 2015).
- 156 Northrop, A. C., R. K. Brooks, A. M. Ellison, B. A. Ballif, & N. J. Gotelli. 2015. Metaproteomic survey reveals differences in composition and function between microbial communities in detritus-enriched and unmanipulated ecosystems. (ESA, 2015).
- 157 Patel, M. B., B. Rose, & A. M. Ellison. Ten years of student gains from undergraduate research at the Harvard Forest Summer Research Program in Ecology. (ESA, 2015).
- 158 Orwig, D. A., J. A. Aylward, H. L. Buckley, B. S. Case, & A. M. Ellison. 2015. Initial census, composition, and spatial patterns within the 35 ha ForestGeo plot at Harvard Forest. (ESA, 2015).
- 159 Berberich, G., A. M. Ellison, and C. Wohler. 2016. Red wood ants, *Formica rufa*-group, and tectonic processes interact and contribute to climatic change. (International Congress of Entomology, 2016).

- 160 Nguyen, A., M. Brown, J. Zitnay, N. J. Gotelli, S. H. Cahan, A. Arnett, and A. M. Ellison. 2016. Constrains on cold tolerance and hardening limit the distribution of *Aphaenogaster picea* (Formicidae) at its northern range boundary. (Society for the Study of Evolution, 2016).
- 161 Ellison, A. M. 2016. *Sarracenia* as a model system for studying ecological regime shifts. (International Carnivorous Plant Society, Biennial Conference, 2016).
- 162 Shavit, A., A. Kolumbus, & A. M. Ellison. 2016. Two roads diverged in a wood: indifference to the difference between ‘diversity’ and ‘heterogeneity’ should be resisted on epistemic and moral grounds. (25<sup>th</sup> Biennial Meeting of the Philosophy of Science Association, Atlanta, Georgia).
- 163 Berberich, G. M., M. M. Berberich, A. Grumpe, A. Becker, A. R. Tejada, H. Simpson, S. Obamowonyi, M. Schumann, J. Hartmann, C. Wöhler, & A. M. Ellison. 2016. A multidisciplinary approach to understand interactions of red wood ants (*Formica rufa*-group) and geotectonic processes. (AGU fall meeting, 2016).
- 164 Berberich, G. M., M. B. Berberich, A. Grumpe, A. Becker, J. Hartmann, C. Wöhler, & A. M. Ellison. 2017. A multidisciplinary approach to understanding interactions between red wood ants (*Formica rufa*-group) and geotectonic processes. (7<sup>th</sup> Central European Workshop of Myrmecology, Krakow, Poland, 2017).
- 165 Ellison, A. M. 2017. Carnivorous plants are ideal model systems for experimental research (SEB, 2017).
- 166 Ellison, A. M., C. C. Davis, E. Law, A. C. Williams, & C. G. Willis. 2017. Herbaria in the digital age: promises and pitfalls of using herbarium records to assess phenological responses to climatic change. (IBC, 2017).
- 167 Ellison, A. M. 2017. Carnivorous plants are ideal model systems for experimental research (IBC, 2017).
- 168 Boose, E. R., A. M. Ellison, E. Fong, M. K. Lau, B. S. Lerner, T. Pasquier, & M. Seltzer. 2017. How to replicate a data analysis. (ESA, 2017).
- 169 Boose, E. R., A. M. Ellison, E. Fong, M. K. Lau, B. S. Lerner, T. Pasquier, & M. Seltzer. 2017. Using data provenance tools to create reliable R scripts. (ESA, 2017).
- 170 Ellison, A. M., & D. B. Borden. 2017. Hemlock hospice: art and science for declining hemlocks and the researchers who study them. (ESA, 2017).
- 171 Lau, M. K., A. M. Ellison, A. Nguyen, S. Helms Cahan, B. DeMarco, C. A. Penick, N. J. Sanders, R. R. Dunn, & N. J. Gotelli. 2017. The draft genome of *Aphaenogaster* species from across a biogeographic gradient. (ESA, 2017).
- 172 Patel, M. V., A. L. McDevitt, & A. M. Ellison. 2017. Promoting inclusion in STEM fields through REU programs: an evaluation of common program assessment techniques. (ESA, 2017).
- 173 Record, S., T. McCabe, B. Baiser, & A. M. Ellison. 2017. Are foundation species effects different than those of dominant species? A case study of North American ant assemblages. (ESA, 2017).
- 174 Finzi, A. C., M.-A. Giasson, A. Barker Plotkin, E. A. Davidson, M. Dietze, A. Ellison, S. Frey, T. Keenan, W. Munger, S. Ollinger, N. Pedersen, A. Richardson, K. Savage, J. Tang, J. Thompson, C. Williams, Z. Zhou, & D. R. Foster. 2018. The Harvard Forest carbon budget: patterns, processes and responses to global change. (EGU, 2018).
- 175 Ellison, A. M. 2018. “We have met the enemy and he is us”: Professional, social, and financial costs of sharing data. (ESA, 2018).



- 176 Boose, E., A. M. Ellison, E. Fong, M. Lau, B. Lerner, J. Okuhn, T. Pasquier, & M. Seltzer. 2018. The fruits of provenance. (ESA, 2018).
- 177 Daru, B. H., D. Park, R. B. Primack, C. G. Willis, D. S. Barrington, T. J. S. Whittfield, T. Seidler, P. Sweeney, D. R. Foster, A. M. Ellison, & C. Davis. 2018. Widespread sampling biases in herbaria revealed from large-scale digitization. (ESA, 2018).
- 178 Finzi, A. C., M.-A. Giasson, A. Barker Plotkin, E. A. Davidson, M. C. Dietze, A. M. Ellison, S. D. Frey, T. Keenan, J. W. Munger, S. Ollinger, A. D. Richardson, K. Savage, J. Tang, J. R. Thompson, C. A. Williams, Z. Zhou, & D. R. Foster. 2018. The Harvard Forest carbon budget: patterns, processes and responses to global change. (ESA, 2018).
- 179 Northrop, A. C., N. J. Gotelli, B. A. Ballif, & A. M. Ellison. 2018. Hysteresis in a teapot: organic enrichment and eutrophic collapse of the pitcher-plant foodweb. (ESA, 2018).
- 180 Park, D., A. M. Ellison, & C. Davis. 2018. Adaptation and variation of phenological responses to climate. (ESA, 2018).
- 181 Boose, E., O. Brand, A. M. Ellison, E. Fong, M. Lau, B. Lerner, T. Pasquier, M. Seltzer, & J. Wonsil. 2018. What can provenance do for you? (LTER-ASM, 2018).
- 182 Berberich, G. M., M. B. Berberich, A. M. Ellison, & C. Woehler. 2018. Degassing rhythms of geogenic gases in a red wood-ant nest (*F. polycytena*) and in soil in the dormant East Eifel Volcanic Field, Germany. (Entomological Society of America, 2018).
- 183 Ellison, A. M., E. R. Boose, O. Brand, E. Fong, M. K. Lau, B. S. Lerner, T. Pasquier, J. Wonsil, & M. Seltzer. ProvTools painlessly provides provenance. (AGU, 2018).
- 184 Liang, E., Y. Wang, S. Piao, X. Lu, J. J. Camarero, H. Zhu, L. Zhu, A. M. Ellison, P. Ciais, & J. Peñuelas. 2018. Species interactions slow warming-induced upward shifts of treelines on the Tibetan Plateau. (AGU, 2018).
- 185 Berberich, G. M., M. B. Berberich, A. M. Ellison, & C. Wöhler. 2019. Degassing rhythms and fluctuations of geogenic gases in a red-ant nest. (Physics of Volcanoes 2019).
- 186 Park, D. S., I. Brecheimer, A. M. Ellison, & C. Davis. 2019. Digitized herbaria reveal substantial variation in plant phenological responses to climate across the eastern United States. (BSA, 2019).
- 187 Anderson, M., I. Del Toro, & A. M. Ellison. 2019. Effects of forest productivity and succession on the species and functional diversity of New England ant communities. (ESA, 2019).
- 188 Boose, E., A. M. Ellison, E. Fong, B. Lerner, and M. Seltzer. 2020. Provenance: can I trust this result? (ESA, 2020).
- 189 Ellison, A. M., & D. B. Borden. 2020. Envisioning the future: The novel ecosystem generator. (ESA, 2020).
- 190 Ellison, A. M., I. Breckheimer, G. Lyra, D. Park, & C. Davis. 2020. Urban heat islands accelerate changes in flowering phenology. (ESA, 2020).
- 191 Ellison, A. M., & N. J. Gotelli. 2020. The continuing promise of scaling for ecological research and applications. (ESA, 2020; *invited poster for "Leading Ecologists' Spotlight"*)
- 192 Lewis, A. M., A. M. Ellison, D. R. Foster, B. R. Hall, C. Hart, M. Hastings, D. Laflower, L. G. Lee, M. G. MacLean, T. Mandra, N. Pederson, T. Rademacher, H. L. Robbins, J. R. Thompson, & M. Weiss. 2020. Increasing diversity and inclusion at Harvard Forest, Harvard University's rural ecological institute—the first two years. (ESA, 2020).
- 193 Ellison, A. M. & E. R. Zeigler. 2021. Towards a non-anthropocentric aesthetics of environmental balance and change. (14<sup>th</sup> International Institute for Applied Aesthetics).

### Short courses taught

- 2005 Bayesian Statistics (week-long course at University of Stockholm)
- 2011 Ants of New England (week-long course at Eagle Hill Institute, Steuben, Maine)
- 2013 Ants of New England (week-long course at Eagle Hill Institute, Steuben, Maine)
- 2015 Statistics (three-day course Pontificia Universidad Javeriana, Colombia)
- 2015 Spatial Statistics (9-hour short course, University of Duisberg/Essen, Germany)
- 2017 Monitoring and Analysis of Biodiversity Monitoring Data (seven-day intensive course, Faculty of Forestry, University of Khartoum, Sudan)
- 2017 Applications of codispersion analysis to data from large forest dynamics plots (four-day intensive workshop, Institute of Botany, Chinese Academy of Sciences, Beijing, China)
- 2021 Communicating Scientific Knowledge (3-session intensive online/virtual workshop, for Sound Solutions for Sustainable Science)
- 2021 The Worlds of Ants: Natural History, Cultural History, and Research Perspectives (5-session online/virtual seminar for Eagle Hill Institute, Steuben, Maine)

### Invited seminars

- 1985 University of Rhode Island  
Yale University
- 1986 Cornell University  
Ohio University
- 1987 Unity College, Maine  
Amherst College, Massachusetts  
Kyoto University, Japan
- 1988 Johnson State College, Vermont  
University of California, Santa Barbara
- 1989 University of Cincinnati, Ohio  
University of Kentucky  
Organización para Estudios Tropicales, Costa Rica  
Swarthmore College, Pennsylvania  
Universidad de Costa Rica  
Southeastern Louisiana University  
Brown University, Rhode Island  
University of Pennsylvania
- 1990 Mount Holyoke College, Massachusetts  
Skidmore College, New York  
University of South Florida, Tampa  
Swarthmore College, Pennsylvania (Sigma Xi lecture)  
University of Massachusetts, Amherst
- 1991 Savannah River Ecology Laboratory, University of Georgia  
Mount Holyoke College, Massachusetts (Sigma Xi lecture)  
State University of New York, Stony Brook  
Brown University, Rhode Island
- 1992 Vassar College  
Harvard University
- 1994 Harvard Forest, Harvard University  
University of New Hampshire

- Wellesley College  
 Instituto Venezolano de Investigaciones Cientificas, Caracas, Venezuela
- 1995** University of Malaya, Kuala Lumpur, Malaysia  
 University Sains Malaysia, Penang, Malaysia  
 Bose Institute, Calcutta, India  
 University of Capetown, South Africa  
 Five College Coastal & Marine Science Colloquium (Mt. Holyoke College)
- 1996** Tufts University  
 University of Maryland, College Park  
 Brown University  
 University of New Hampshire  
 University of Vermont
- 1997** Eastern Connecticut State University
- 1998** New England Botanical Club  
 Marine Biological Laboratory at Woods Hole  
 Smithsonian Environmental Research Center
- 1999** Cornell University  
 Dartmouth College  
 Louisiana State University  
 Mount Holyoke College  
 University of Mississippi  
 New England College
- 2001** University of Florida, Gainesville  
 Appalachian State University  
 Hokkaido University, Sapporo, Japan  
 Harvard Forest, Harvard University  
 University of Massachusetts, Amherst
- 2002** Harvard Forest, Harvard University  
 Harvard University, Dept. of Organismic & Evolutionary Biology
- 2003** University of Pennsylvania
- 2004** University of Massachusetts (Biostatistics course)  
 Kellogg Biological Station (Eminent Ecologist)  
 Coweeta Hydrological Laboratory/LTER  
 University of Tennessee
- 2005** University of Massachusetts (Biostatistics course)  
 Brown University (Experimental Design course)
- 2006** Howard University  
 Delaware State University  
 Ohio State University, Mathematical Biosciences Institute (presenter in workshop on  
 uncertainty in ecological analysis)  
 University of Massachusetts (Biostatistics course)  
 State University of New York, Stony Brook
- 2007** Johnson C. Smith University  
 University of North Carolina at Charlotte  
 Livingstone College  
 University of California, Davis (Research seminar; Workshop on Bayesian Statistics)
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- Brown University (Workshop on Bayesian statistics)  
 Northern Arizona University (Workshop on Bayesian statistics)  
 University of Texas – Pan-American  
 University of Texas – El Paso
- 2008** University of Florida – Gainesville  
 University of Miami (Distinguished Visiting Professor)  
 Massachusetts Audubon Society Staff Natural History Conference (keynote)  
 Mount Holyoke College  
 University of Massachusetts (Department of Natural Resources and Conservation)  
 University of Massachusetts (Department of Statistics)  
 University of Massachusetts (Department of Plant, Soil, and Insect Science)  
 Ecosystem Center at the Marine Biological Laboratory, Woods Hole  
 University of Minnesota (Department of Plant Biology)  
 Michigan Technological University  
 Howard University
- 2009** Boston University (Department of Studio Art)  
 Cambridge Entomological Club  
 Harvard University Center for the Environment (Biodiversity, Ecology & Global Change  
 lecture series)
- 2010** University of Rhode Island (Ledermann Lecture in Natural History &  
 Conservation Biology)  
 Northeastern University  
 Bennington College  
 Athol Public Library  
 Cornell University  
 Boston University
- 2011** Arizona State University (EU Workshop on Community Genetics of Foundation  
 Species)  
 Coolidge Corner Theater (Science on Screen series, introduction to *Little Shop of Horrors*)  
 Lincoln University (Missouri)  
 Rhode Island College  
 Eagle Hill Institute (Maine)  
 University of Massachusetts at Boston
- 2012** Brown University  
 Florida State University  
 Arnold Arboretum (Harvard University)  
 Harvard Museum of Natural History  
 New England Wild Flower Society
- 2013** Dartmouth College (Department of Biology)  
 Dartmouth College (Institute for Lifelong Education)  
 Tel Hai College, Israel  
 Israel Academy of Sciences - HaMaarag Symposium  
 Ramat Hanadiv, Israel  
 Eagle Hill Institute (Maine)  
 Chinese Forestry Academy (Beijing, China)  
 Beijing Forestry University (Beijing, China)

- South China Agricultural University (Guangzhou, China)  
 Xishuangbanna Tropical Botanical Garden (Yunnan, China)  
 Kunming Institute of Zoology (Kunming, China)  
 Lyndon State College (Vermont)  
 Nantucket Biodiversity Initiative Biennial Research Conference (keynote)  
 Yale University (Ostrom Natural History Lecture Series)  
 Yale University (Yale Institute for Biospheric Studies)  
 University of Vermont
- 2014** Garden Club of the Back Bay (Boston)  
 University of Illinois (RCN Forecast Workshop / Advanced Software for Ecological Forecasting)  
 Bowling Green State University  
 Albert-Ludwigs University of Freiburg (Department of Biometry & Environmental Systems Analysis)  
 University of Duisburg-Essen (Faculty of Biology / Department of Geology)  
 Bedford (New Hampshire) Garden Club  
 University of New Hampshire  
 Harvard University Herbaria
- 2015** Pontificia Universidad Javeriana, Colombia  
 Universidad Nacional de Amazonia – Leticia, Colombia  
 University of Copenhagen, Natural History Museum of Denmark  
 Linnean Centre for Plant Biology, Uppsala
- 2016** Ohio State University  
 Yale University  
     Yale Institute for Biospheric Studies  
     Yale Department of Ecology & Evolutionary Biology  
     Program in Spatial Biodiversity Science and Conservation  
 University of the Sunshine Coast (Australia)  
 Drexel University/Academy of Natural Sciences (Philadelphia)  
 Bryn Mawr College  
 University of Maryland, Baltimore County  
 H. J. Andrews Forest Experiment Station  
 Chinese Academy of Sciences  
     Institute of Earth Environment (Xi'an, China)  
     Institute of Tibetan Plateau Research (Beijing, China)  
     Institute of Applied Ecology (Shenyang, China)  
     Institute of Botany (Beijing, China)  
     Research Center for Eco-Environmental Science (Beijing, China)  
     Kunming Institute of Zoology (Kunming, China)  
 Shenyang Agricultural University (Shenyang, China)  
 Ecological Society of Beijing (Beijing, China)  
 Nanjing Forestry University (Nanjing, China)  
 Beijing Normal University (Beijing, China)  
 Minzu University (Beijing, China)  
 Peking University (Beijing, China)  
 China University of Mining and Technology Beijing (Beijing, China)
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- Universidad Técnica Federico Santa Maria (Valparaiso, Chile)  
 Museu Paraense Emílio Goeldi (Belém, Brazil)
- 2017 University of Khartoum, Faculty of Forestry  
 University of the Sunshine Coast (Australia)  
 Harvard University, Harvard Forest  
 Yale University, School of Forestry and Environmental Studies  
 University of Colorado, Boulder  
 University of Colorado, Denver  
 Museu Paraense Emílio Goeldi (Belém, Brazil)
- 2018 Smith College<sup>Hemlock Hospice</sup>  
 Hampshire College<sup>Hemlock Hospice</sup>  
 Harvard University, Harvard University Herbaria  
 Harvard University, Graduate School of Design<sup>Hemlock Hospice</sup>  
 Montserrat College of Art<sup>Hemlock Hospice</sup>  
 Northeastern University (School of Architecture)<sup>Hemlock Hospice</sup>  
 Rhode Island School of Design<sup>Hemlock Hospice</sup>  
 Royalston Town Hall<sup>Vanishing Point</sup>  
 New England Carnivorous Plant Society  
 Ohio State University, Science and Technology Studies<sup>Hemlock Hospice</sup>  
 Broto Conference<sup>Hemlock Hospice</sup>  
 Maine Audubon Society<sup>Hemlock Hospice</sup>  
 Mid-Atlantic Carnivorous Plant Society  
 Athol (Massachusetts) Public Library<sup>Hemlock Hospice</sup>  
 National University of Singapore  
 Cary Memorial Library (Lexington, Massachusetts)<sup>Hemlock Hospice</sup>  
 Yale University (Forest Forum)  
 Le Laboratoire (Cambridge, Massachusetts)<sup>Hemlock Hospice</sup>  
 Atlanta Botanical Garden  
 Tufts University<sup>Hemlock Hospice</sup>  
 Lawrence University  
 New England Botanical Club  
 World Scholar's Cup<sup>Hemlock Hospice</sup>
- 2019 Uppsala University  
 Centre for Environment and Development Studies  
 Department of Ecology and Genetics  
 Transdisciplinary Seminar in Education and Sustainable Development  
 Boston Society of Landscape Architects<sup>Novel Ecosystems</sup>
- 2020 Yale University (School of Art & Architecture)  
 CForBio Forum (Beijing)
- 2021 Nanyang Technological University (Singapore)  
 Islamia College (Peshawar, Pakistan)

**Graduate students and post-doctoral fellows** (in order of year of completion)

**M.Sc. / M.A. Students**

- Melissa Iszard-Crowley, Department of Biological Sciences, Mount Holyoke College (1992)  
 Kelley Sullivan, Harvard Extension School, Harvard University (2005)

Grace Barber, Department of Environmental Conservation, University of Massachusetts (2014)

**Ph.D. Students**

Sydne Record, Graduate Program in Plant Sciences, University of Massachusetts (2010)

Israel Del Toro, Graduate Program in Organismic and Evolutionary Biology, University of Massachusetts (2014)

Ahmed A. Hassabelkreem Siddig, Department of Environmental Conservation, University of Massachusetts (2015)

**Ph.D. Committees & External Examiner**

Fabian Menalled, Department of Forestry and Wood Technology, University of Massachusetts, Amherst, (1996)

Gaurab Gangopadhyay, Department of Botany, University of Calcutta, India (1997)

Sangita Basu, Department of Botany, University of Calcutta, India (1998)

Rochelle Christian, Ecosystems Research Center, Australian National University (1999)

Avril L. de la Cretaz, Department of Forestry and Wood Technology, University of Massachusetts, Amherst, (2000)

Deirdre Joy, Department of Zoology, University of Vermont, Burlington, Vermont (2001)

Jennifer Bowen, Department of Biology, Boston University (2005)

Julie Richburg, Department of Natural Resource Conservation, University of Massachusetts, Amherst, (2005)

Suzette Stephens, Department of Forestry and Wood Technology, University of Massachusetts, Amherst (2005)

Kristin N. Metcalfe, Faculty of Education, Health and Science, Charles Darwin University, Darwin, NT, Australia (2007)

Primrose Boynton, Department of Organismic and Evolutionary Biology, Harvard University (2012)

Virginia Schutte, Odum School of Ecology, University of Georgia, Athens (2014)

Zafar Farroqui, Centre of Excellence in Marine Biology, University of Karachi, Pakistan (2013)

Scott Schneider, Department of Organismic and Evolutionary Biology, University of Massachusetts, Amherst (2016)

Lenora Bittleston, Department of Organismic and Evolutionary Biology, Harvard University (2016)

Emmi Kurosawa, Department of Biology, University of Massachusetts, Boston (in progress)

**Post-doctoral fellows (all at Harvard Forest)**

Jim Karagatzides (2006-2008) [now at Georgian College, Barrie, Ontario]

Matthew Fitzpatrick (2008-2009) [now at University of Maryland Center for Environmental Science, Frostburg, Maryland]

Shannon Pelini (2009-2012) [now at Bowling Green State University, Bowling Green, Ohio]

Sydne Record (2010-2012) [now at Bryn Mawr College, Philadelphia]

Benjamin Baiser (2009-2013) [now at University of Florida, Gainesville]

Matthew Lau (2014-2018) [now at Chinese Academy of Sciences, Beijing]

**Professional service**

**Ecological Society of America**

1992: Annual Meeting, session chair

1992; 1997: Annual Meeting, judge: Buell/Braun Award for best paper/poster presented by a graduate student

1994–1995: Appointed member, Ad-hoc Committee on Communication in the Electronic Age; Chair, Subcommittee on Data Archiving

1995: Annual Meeting, Symposium Organizer: “Bayesian Inference in Ecological Research and Environmental Decision-making”

1995–1997: Chair, Statistical Ecology Section

1995–1997: Member, Annual Meeting program committee

1995–1997: Member, ESA Council

1995–1996: Member, Organizing committee: State-of-the-art workshop on ecological resource monitoring, change and trend detection (a joint project of the Ecological Society of America, the American Statistical Association, and the office of the Sustainable Biosphere Initiative)

1995–1998: Appointed member, Ad-hoc Committee on Ecological Data Archiving; Chair 1996-1998.

1999–2001: Member, Mercer Award Committee

2000: Annual Meeting, Symposium Organizer: “Carnivorous Plants as Model Ecological Systems”

2003–2006: Member, Publications Committee

2006: Annual Meeting, Symposium Organizer: “What makes an ecological icon?”

2009: Annual Meeting, judge. E.C. Pielou Award for statistical paper presented by a graduate student

2011–2012: Centennial Committee

2012: Annual Meeting, Organized Oral Session Organizer: “From books to barcodes: challenges and opportunities of next-generation field guides for ecologists, students, and educators”

2013: Annual Meeting, Symposium Co-organizer: “There and back again: standards for replication in long-term research, and integrating field and database perspectives in future management”

2017: Annual Meeting, Ignite Session Organizer: “Ecological art-science collaborations”

2017: Annual Meeting, ESA Senior Advisor to the City of Portland, Oregon, for Earth Stewardship Initiative/Workshop 57 (“Green infrastructure implementation and monitoring in Portland focusing on experimental research and ecological function”).

2018: Annual Meeting, Inspire Session Organizer: “New directions in the ecology, conservation, and management of carnivorous plants.”

2018–2021: Elected member, Board of Professional Certification.

2020: Annual Meeting, Inspire Session Co-Organizer: “Innovations in data science across coordinated research networks”

#### **Association for Tropical Biology**

1996: Annual Meeting, Symposium Co-organizer: “Thinking Globally and Working Globally – Ecological Insights from Inter-regional Studies”

1997: Member, annual meeting program committee; Chair, symposium selection committee.

#### **British Ecological Society**



2020: Workshop organizer and presenter: “Using data provenance to create reproducible, transparent, and well-documented code for statistical analysis and modelling in R”

### **Society for Ecological Restoration**

1999: Annual Meeting, Symposium Organizer: “Restoration of Mangrove Ecosystems”

### **Other national and international service**

1992: Organizer and chair, 1992 meeting of the Population Biologists of New England

1992–1993: Member, Executive Committee *America’s Academic Future* (an NSF-sponsored project of Presidential Faculty Fellows, Presidential Young Investigators, and National Young Investigators to remake America's academic culture)

January 1994: Invited panelist, 139<sup>th</sup> Meeting of the NAS Committee on Science, Engineering and Public Policy (Graduate Education Project)

February 1994: Invited participant, NSF Second Annual Invitational Conference on Reform in Mathematics and Science Education

April 2003: External reviewer (Chair), Department of Biology, Franklin & Marshall University.

September 2005: External reviewer, Department of Biology, Bard College.

March 2007: Expert panelist (mangroves), IUCN Global Marine Species Assessment.

February 2009: member, NSF team reviewing the National Center for Ecological Analysis and Synthesis (NCEAS).

2013–2014: Member, NSF task-force on the next generation LTER network office

2013–2016: Member, LTER Network Information System Advisory Committee (NISAC)

February 2015: External reviewer, Department of Biology, Bowdoin College

July 2017: XIX International Botanical Congress, Symposium organizer. “Evolution, ecology, and physiology of carnivorous plants.

December 2017: Chair, LTER mid-term review team for Palmer LTER site.

December 2020: Committee of Visitors, Division of Biological Infrastructure, US NSF

### **Manuscript and grant reviews (last 2 years only)**

*Methods in Ecology and Evolution*

*Rhodora*

National Centre of Science and Technology, Kazakhstan

National Science Foundation

Oxford University Press

Princeton University Press

Qatar National Research Foundation

University of Wisconsin Foundation

Villum Fonden, Copenhagen, Denmark

### **Community service**

1995–2001: Occasional *pro bono* consultant to the South Hadley Conservation Commission

1999–2001: Discussion leader, Massachusetts Foundation for the Humanities, Millennial series.

2001–2002: Appointed Commissioner, Holyoke Conservation Commission

2002–2005: Member, Land Protection Committee, Mt. Grace Land Conservation Trust

2005–2010: Chair, Open Space Committee, Town of Royalston, Massachusetts

2002–2018: Appointed Commissioner, Royalston Conservation Commission

2018–present: Elected Trustee, Telford 180 Condominium Association

2020–present: Appointed member, Impact Advisory Group, Boston Planning & Development Association.

**Memberships**

British Ecological Society  
Ecological Society of America  
New England Botanical Club

**Languages**

Spanish (reading, writing, speaking)	APL	R
Hebrew (reading, writing, speaking)	BASIC	S
French (reading, writing)	FORTRAN	
Latin (reading)	PASCAL	
Mandarin (basic reading, writing, speaking)		