

Sarah Treanor Bois

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EDUCATION

PhD candidate; Ecology and Evolutionary Biology 2007 – present
University of Connecticut, Storrs, CT

Primary Advisor: John Silander Jr.

Dissertation: Invasive Species Colonization Potential in New England; distributions, demography, and impact

Bachelor of Science in Environmental Sciences 1999

University of Massachusetts, Amherst, MA

Concentration: Biology

Commonwealth Scholar, Departmental Honors

University of Alaska, Fairbanks, AK 1998

Semester exchange

Natural Resource Management

PROFESSIONAL EXPERIENCE

Research Assistant, University of Connecticut, Storrs, CT 2007 – present
Arc GIS, R, OpenBugs; direct and oversee undergraduate research assistants

Invasive Plant Atlas of New England, University of Connecticut, Storrs, CT 2007 – present
Volunteer coordinator/Research Assistant

Recruit, train, and maintain network of over 600 active volunteers; develop training materials; hire, direct, mentor and oversee undergraduate research assistants

Massachusetts Natural Heritage and Endangered Species Program 2010, 2011

Independent Contractor

Researched and authored six state-listed plant fact sheets

Nantucket Conservation Foundation, Nantucket, MA 2003 - 2007

Field Supervisor; research assistant

Study of *Clemmys guttata* home ranges, movement patterns and habitat preferences

Habitat use patterns and nesting preferences of Short-eared owls and Northern Harriers in conjunction with fire effects monitoring

The effect of management on the state-listed endangered species

Direct effects of dormant season prescribed burning on sandplain grassland and coastal heathland plant and wildlife communities

Conservation grazing experiment

Hired, oversaw and directed seasonal research interns

Massachusetts Audubon Society, Nantucket, MA 2003, 2004, seasonal

Research assistant

Monitoring breeding shorebird populations

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| Massachusetts Audubon Society , Nantucket, MA Research assistant Pollinator observation study on the state-listed endangered species <i>Symphyotrichum concolor</i> | 2003 |
| Maria Mitchell Association , Nantucket, MA Assistant Director of the Museum of Natural Sciences | 2001 – 2003, seasonal |
| California Condor Recovery Program , U.S Fish and Wildlife Service Wildlife Biological Field Intern | 2001 – 2002 |
| National Elk Refuge, U.S Fish and Wildlife Service , Jackson, WY SCA, AmeriCorps Intern | 2000 – 2001 |

PUBLICATIONS

Bois, S.T., J. M. Allen, M. Kaproth, K. Holsinger, J. Molofsky, and J.A. Silander Jr. 2012. Phenotypic variation and local site adaptation in native and introduced ranges: Varying responses of two woody ornamentals with similar invasion histories. *In prep*

Bois, S.T., J.A. Silander Jr., L. Mehrhoff. 2011. Invasive Plant Atlas of New England, the role of citizens in the science of invasive alien species detection. *BioScience* 61: 763–770

Bois, S. T. 2011. Keeping track of invasive alien species with IPANE. *Invasive Plants. Ecological Landscaping Association*. October 15, 2011 Retrieved from: <http://www.ecolandscaping.org/10/invasive-plants/keeping-track-of-invasive-alien-species-with-ipane/#more-3901>

Ibáñez, I., J.A. Silander Jr., J.M. Allen, **S.A. Treanor** and A. Wilson. 2009. Identifying hotspots for plant invasions and forecasting focal points of further spread. *Journal of Applied Ecology*. 46(6):1219-1228

Freeman, R.S., E.M. Steinauer, and **S.A. Treanor**. 2005. The effect of management on the state-listed endangered species *Symphyotrichum concolor* (Asteraceae) on Nantucket Island. The Nantucket Conservation Foundation, technical report. Retrieved from: <http://www.nantucketconservation.com/page.php?section=2&page=reports>

PRESENTATIONS

Sarah T. Bois, Jenica M. Allen, Matthew Kaproth, Kent Holsinger, Jane Molofsky, and John A. Silander Jr. Phenotypic variation and local site adaptation in native and introduced ranges: Varying responses of two woody ornamentals with similar invasion histories. 2011 Ecological Society of America Annual Meeting, *Austin. TX*

Sarah T. Bois, Ines Ibáñez, and John A. Silander Jr. A multi-scale approach to the forecast of potential distributions of invasive plant species. 2011 Multi-agency and multi program project directors meeting, *Washington D.C.*

Sarah T. Bois. Early Detection Networks – Workshop and Panel Discussion. Invited panelist. 2011 National Invasive Species Awareness Week, *Washington, D.C.*

Sarah T. Bois, Jenica M. Allen, Ines Ibáñez, and John A. Silander Jr. Invasive versus native species responses to climate change: experimental and modeling approaches. 2010 Ecological Society of America Annual Meeting, *Pittsburgh, PA*

Sarah A. Treanor, Jenica M. Allen, Matthew A. Kaproth, Nancy LaFleur, Jane Molofsky, and John A. Silander Jr. Genetic variance of invasiveness in woody ornamental plants: The role of genotype differences versus phenotypic plasticity. 2009 International Invasive Plant Symposium, *Storrs, CT*

Sarah A. Treanor, John A. Silander Jr., and Leslie J. Mehrhoff. Invasive Plant Atlas of New England. 2009 International Invasive Plant Symposium (Poster Presentation)

Sarah A. Treanor, Jenica M. Allen, Matthew A. Kaproth, Nancy LaFleur, Jane Molofsky, and John A. Silander Jr. Genetic variance of invasiveness in woody ornamental plants: The role of genotype differences versus phenotypic plasticity. 2009 Ecological Society of America Annual Meeting, *Albuquerque, NM*

Sarah A. Treanor, John A. Silander Jr., and Leslie J. Mehrhoff. Invasive Plant Atlas of New England. 2009 Odum Conference, *Rensselaerville, NY* (Poster Presentation)

Sarah A. Treanor, Jenica M. Allen, Inés Ibáñez, Leslie J. Mehrhoff, and John A. Silander Jr. Early detection of invasive alien species using hierarchical Bayesian models: Examples from northeastern North America. 2008 Ecological Society of America Annual Meeting, *Milwaukee, WI* (Poster Presentation)

Sarah A. Treanor, Rachael Freeman, and Sarah Hinman. Seasonal Movement Patterns, Habitat Preferences, and Implications for Management of *Clemmys guttata*. 2008 Northeast Natural History Conference, *Albany, NY* (Poster Presentation)

TEACHING EXPERIENCE

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| Teaching Assistant, Methods of Field Ecology | Fall 2010 |
| Invasive Plant Introductory trainings Multiple trainings offered each year in multiple states | 2008-present |
| Honors undergraduate seminar, BIO2289, Guest lecture, | Fall 2011 |
| Topics in Modern Biology, Biology 1109, Guest lecture | Spring 2010 |

GRANTS AND AWARDS

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| Center for Conservation and Biodiversity Award | 2011 |
| EEB Excellence in Student Teaching Award Methods of Field Ecology Fall 2010 | 2010 |
| Bamford Fund (University of Connecticut Research Grant) | 2009 |
| Bamford Fund (University of Connecticut Research Grant) | 2008 |

PROFESSIONAL SERVICE AND AFFILIATIONS

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| Appointed to the University of Connecticut's Arboretum Committee | February 2011 |
| Reviewer, <i>Oecologia</i> , <i>Natural Areas Journal</i> | |
| Scientific Expert, Vital Signs program, Gulf of Maine Research Institute | 2010 – present |
| Monday Evening Seminar Series Organizer, Ecology and Evolutionary Biology Graduate Student Association | 2008 – 2009 |
| Green Grads, member, public relations committee member | 2008 – 2010 |

Memberships:

- Ecological Society of America (Natural History Section, Student Section)
- Natural History Network
- Graduate Women in Science
- Connecticut Invasive Plant Working Group (advisory committee)
- New England Botanical Club
- New England Plant Conservation Corps (2004 – present)
- Nantucket Invasive Plant Species Committee (co-Chair, 2006-2007)

SKILLS AND QUALIFICATIONS

- Statistical Programs: R, OpenBugs
- ESRI ArcMAP GIS
- Definiens Developer
- Wildland Firefighter Type 1 training
 - S130/190 Wildland Firefighter Certification
 - S211 Pumps and Small Engines
 - S290 Intermediate Fire Behavior
 - S234 Ignitions