

CURRICULUM VITAE

Evan Siemann

ADDRESS:

Dept. of Ecology and Evolutionary Biology, MS 170
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OTHER RICE UNIVERSITY AFFILIATIONS:

Environmental and Energy Systems Institute
Shell Center for Sustainability
Professional Master of Science in Environmental Analysis and Decision Making
Institute of Biosciences and Bioengineering
Center for the Study of Environment and Society

EDUCATIONAL HISTORY:

University of Minnesota 9/91-6/97 PhD in Ecology (Dr. David Tilman)
Cornell University 9/86-12/89 A.B. Biological Sciences
Oxford University 10/88-12/88 [study abroad]

PROFESSIONAL EXPERIENCE:

Rice University, Dept. of Ecology and Evolutionary Biology	1998-present
Assistant Professor (1998-2004), Associate Professor (2004- present)	
Postdoc, Dept. Biology, Univ. NM (Dr. James Brown)	1997-1998
Lecturer, Introduction to Ecology, University of Minnesota	1996
Research Assistant, University of Minnesota	1992-1996
Teaching Assistant, University of Minnesota	1991-1997
Technician, Pomology Dept, Cornell University	1990-1991
Research Specialist, Agronomy Dept, Cornell University	1990

AWARDS AND HONORS:

Distinguished Associate, Will Rice College	2001-2002, 2003-2004
Outstanding Associate, Will Rice College	2000-2001
Univ. of MN Doctoral Dissertation Fellowship	1996-1997
NSF Pre-doctoral Fellowship	1991-1995

PUBLICATIONS:

* designates undergraduates under my supervision

2008 or in press:

Zou, J., W.E. Rogers and **E. Siemann**. Plasticity of *Sapium sebiferum* seedling growth to light and water resources: Inter- and intraspecific comparisons (31 pages, 3 tables, 3 figures, Basic and Applied Ecology)

*Rua, M.A, S. Nijjer, A. Johnson, W.E. Rogers, and **E. Siemann**. Experimental approaches for testing allelopathy: a case study using the invader *Sapium sebiferum* (25 pages, 3 tables, 3 figures, Allelopathy Journal)

*Horn, K.C., *S.D. Johnson, *K.M. Boles, *A. Moore, **E. Siemann**, and C.A. Gabler. Factors affecting hatching success of golden apple snail eggs: effects of water immersion and cannibalism (12 pages, 2 figures, c)

Zou, J., W.E. Rogers and **E. Siemann**. In press. [Increased competitive ability and herbivory tolerance of the invasive plant *Sapium sebiferum*](#). Biological Invasions

Nijjer, S., W.E. Rogers, C.A. Lee, and **E. Siemann**. 2008. [The effects of soil biota and fertilization on the success of *Sapium sebiferum*](#). Applied Soil Ecology 38:1-11.

2007:

Siemann, E., W.E.Rogers and J.B. Grace. 2007. [Effects of nutrient loading and changing frequencies of extreme rainfall events on coastal tall grass prairies: invasion intensity, vegetation responses and C and N distribution](#). Global Change Biology 13: 2184–2192.

Nijjer, S., W.E. Rogers and **E. Siemann**. 2007. [Negative plant-soil feedbacks reduce the long-term success of an invasive tree](#). Proceedings of the Royal Society of London, Series B 274: 2621–2627.

Zou, J., W.E. Rogers and **E. Siemann**. 2007. [Differences in morphological and physiological traits between native and invasive populations of *Sapium sebiferum*](#) Functional Ecology 21: 721-730.

Siemann, E. and W.E. Rogers. 2007. [The role of soil resources in an exotic tree invasion in Texas coastal prairie](#). Journal of Ecology 95: 689-697.

Hartley, M., W.E. Rogers, J.B. Grace and **E. Siemann**. 2007. [Responses of prairie arthropod communities to fire and fertilizer: balancing plant and arthropod conservation](#). American Midland Naturalist 157:92-105.

2006:

Zou, J., W.E. Rogers, S.J. DeWalt and **E. Siemann**.2006. [The effect of Chinese tallow tree \(*Sapium sebiferum*\) ecotype effects on ecosystem carbon and nitrogen processes](#). Oecologia 150:272-281.

Siemann, E., W.E. Rogers and S.J. DeWalt. 2006. [Rapid adaptation of insect herbivores to an invasive plant](#). Proceedings of the Royal Society of London, Series B 273:2763-2769

Siemann, E. and W.E. Rogers. 2006. [Recruitment limitation, seedling performance and persistence of exotic tree monocultures](#) Biological Invasions 8:979-991

Donahue, C., W.E. Rogers, and **E. Siemann**. 2006. [Restoring an invaded prairie by mulching live *Sapium sebiferum* \(Chinese tallow trees\): effects of mulch on *Sapium* seed germination](#). Natural Areas Journal 26:244-253.

DeWalt, S.J., **E. Siemann**, and W.E. Rogers. 2006. [Microsatellite markers for an invasive tetraploid tree, Chinese Tallow \(*Triadica sebifera*\)](#). *Molecular Ecology Notes* 6:505-507.

2005:

Rogers, W.E. and **E. Siemann**. 2005. [Herbivory tolerance and compensatory differences in native and invasive ecotypes of Chinese tallow tree \(*Sapium sebiferum*\)](#). *Plant Ecology* 181:57-68.

Bossdorf, O., H. Auge, L. Lafuma, W.E. Rogers, **E. Siemann**, and D. Prati. 2005. [Phenotypic and genetic differentiation between native and introduced plant populations](#). *Oecologia* 144: 1-11

2004:

Weisser, W.W. and **E. Siemann**. 2004. The various effects of insects on ecosystem functioning. pages 3-24 in Weisser, W.W. and E. Siemann (eds). *Insects and Ecosystem Function*. Ecological Studies Series. Springer-Verlag.

E. Siemann, W.P. Carson, W.E. Rogers and W.W. Weisser. 2004. Reducing herbivory using insecticides. pages 303-327 in Weisser, W.W. and E. Siemann (eds). *Insects and Ecosystem Function*. Ecological Studies Series. Springer-Verlag.

Rogers, W.E. and **E. Siemann**. 2004. The role of herbivores in alien plant invasions: insights using a combination of methods to enhance or reduce herbivory. pages 329-355 in Weisser, W.W. and E. Siemann (eds). *Insects and Ecosystem Function*. Ecological Studies Series. Springer-Verlag

Siemann, E. and W.W. Weisser. 2004. Testing the role of insects for ecosystem functioning. pages 383-401 in Weisser, W.W. and E. Siemann (eds). *Insects and Ecosystem Function*. Ecological Studies Series. Springer-Verlag

Rogers, W.E. and **E. Siemann**. 2004. Invasive ecotypes tolerate herbivory more effectively than native ecotypes of the Chinese tallow tree *Sapium sebiferum*. *Journal of Applied Ecology* 41:561-570.

*Lankau, R.L., W.E. Rogers and **E. Siemann**. 2004. Constraints on the utilization of the invasive Chinese Tallow Tree (*Sapium sebiferum*) by generalist native herbivores in coastal prairies. *Ecological Entomology* 29:66-75.

*Butterfield, B.J., W.E. Rogers and **E. Siemann**. 2004. Growth of Chinese tallow tree (*Sapium sebiferum*) and four native trees along a water gradient. *Texas Journal of Science* 56: 335-346. [Big Thicket Science Conference Special Issue -publication date November 2004, printed September 2005]

Donahue, C., W.E. Rogers and **E. Siemann**. 2004. Effects of temperature and mulch depth on Chinese Tallow Tree (*Sapium sebiferum*) seed germination. *Texas Journal of Science* 56: 347-356. [Big Thicket Science Conference Special Issue -publication date November 2004, printed September 2005]

Nijjer, S., W.E. Rogers and **E. Siemann**. 2004. The effect of mycorrhizae on the growth of five native tree species and the invasive Chinese Tallow Tree (*Sapium sebiferum*) *Texas Journal of Science* 56: 357-368. [Big Thicket Science Conference Special Issue -publication date November 2004, printed September 2005]

Hartley, M.K., S.J. DeWalt, W.E. Rogers and **E. Siemann**. 2004. Characterization of arthropod assemblage supported by the Chinese Tallow tree (*Sapium sebiferum*). *Texas Journal of Science* 56: 369-382. [Big Thicket Science Conference Special Issue -publication date November 2004, printed September 2005]

2003:

- Siemann, E.** and W.E. Rogers. 2003. Increased competitive ability of an invasive tree may be limited by an invasive beetle. *Ecological Applications* 13:1503-1507.
- Siemann, E.** and W.E. Rogers. 2003. Changes in resources under pioneer trees may facilitate tree invasions of grasslands. *Journal of Ecology* 91:923-931.
- Siemann, E.** and W. E. Rogers. 2003. Herbivory, disease, recruitment limitation and success of alien and native tree species. *Ecology* 84:1489-1505
- Siemann, E.** and W.E. Rogers. 2003. Reduced resistance of invasive varieties of the alien tree *Sapium sebiferum* to a generalist herbivore. *Oecologia* 135:451-457.
- Rogers, W.E., **E. Siemann** and *R.A. Lankau. 2003. Damage induced production of extrafloral nectaries in native and introduced seedlings of Chinese tallow tree (*Sapium sebiferum*) *American Midland Naturalist* 149:413-417.
- Rogers, W.E. and **E. Siemann**. 2003. Effects of simulated herbivory and resources on Chinese tallow tree (*Sapium sebiferum*, Euphorbiaceae) invasion of native coastal prairie. *American Journal of Botany* 90:241-247.

2002:

- Fagan, W.F., **E. Siemann**, R.F. Denno, C. Mitter, A.F. Huberty, H.A. Woods and J.J. Elser. 2002. Nitrogen content variation in insects: implications for trophic complexity and species diversification. *American Naturalist* 160:784-802.
- Rogers, W.E. and **E. Siemann**. 2002. Effects of simulated herbivory and resource availability on native and invasive exotic tree seedlings *Basic and Applied Ecology* 3:297-307.
- *Nijjer, S., *R.A. Lankau, W.E. Rogers and **E. Siemann**. 2002. Effects of temperature and light on Chinese Tallow (*Sapium sebiferum*) and Texas Sugarberry (*Celtis laevigata*) seed germination. *Texas Journal of Science* 54:63-68.

2001:

- Siemann, E.** and W.E. Rogers. 2001. Genetic differences in growth of an invasive tree species. *Ecology Letters* 4:514-518. (highlighted in Science Daily, Environmental News Service, The Guardian, Houston Business News)
- Twilley, R.B., E.J. Barron, H.L. Gholz, M.A. Harwell, R.L. Miller, D.J. Reed, J.B. Rose, **E. H. Siemann**, R.G. Wetzler, R.J. Zimmerman. 2001. Confronting climate change in the Gulf region: prospects for sustaining our ecological heritage. Union of Concerned Scientists, Cambridge, Massachusetts, and Ecological Society of America, Washington, D.C., 100 p. (highlighted in Houston Chronicle, New Orleans Times-Picayune, Tampa Tribune, St. Petersburg Times, and received regional radio, TV and print coverage)

2000:

- Elser, J.J., W.F. Fagan, R.F. Denno, D.R. Dobberfuhl, A. Folarin, A. Huberty, S. Interlandi, S.S. Kilham, E. McCauley, K. L. Schulz, **E.H. Siemann**, and R.W. Sterner. 2000. Nutritional constraints in terrestrial and freshwater food webs. *Nature* 408:578-580. (Highlighted in Science Daily)
- *Keay, J., W.E. Rogers, *R. Lankau, and **E. Siemann**. 2000. The role of allelopathy in the invasion of the Chinese Tallow Tree (*Sapium sebiferum*). *Texas Journal of Science* 52S: 57-64. [Big Thicket Science Conference Special Issue]
- Rogers, W.E., *S. Nijjer, *C.L. Smith, and **E. Siemann**. 2000. Effects of resources and herbivory on leaf demography and physiology on Chinese Tallow (*Sapium sebiferum*)

Texas Journal of Science 52S:43-56.[Big Thicket Science Conference Special Issue]
Symstad, A. J., **E. Siemann** and J. Haarstad. 2000. An experimental test of the effect of
plant functional group diversity on arthropod diversity. *Oikos* 89:243-253.

1999:

Siemann, E. and J. H. Brown. 1999. Gaps in mammalian body size distributions
reexamined *Ecology* 80:2788-2792.

Siemann, E., J. Haarstad and D. Tilman. 1999. Dynamics of arthropod and plant
diversity during old field succession. *Ecography* 22:406-414.

Siemann, E., D. Tilman and J. Haarstad. 1999. Abundance, diversity and body size:
patterns from a grassland arthropod community. *Journal of Animal Ecology*
68:824-835.

Knops, J. M. H., D. Tilman, N. M. Haddad, S. Naeem, C. E. Mitchell, J. H. Haarstad, M.
E. Ritchie, K. M. Howe, P. B. Reich, **E. Siemann**, and J. Groth. 1999. Effects of
plant species richness on invasions dynamics, disease outbreaks , insects abundance
and diversity. *Ecology Letters* 2:286-293.

1998:

Siemann, E., D. Tilman, J. Haarstad and M. Ritchie. 1998. Experimental tests of the
dependence of arthropod diversity on plant diversity. *American Naturalist*
152:740-752.

Siemann, E. 1998. Experimental tests of the effects of plant productivity and plant
diversity on grassland arthropod diversity. *Ecology* 79:2057-2070.

*Larson, J. and **E. Siemann**. 1998. Legumes may be symbiont limited during old field
succession. *American Midland Naturalist* 140:90-95.

1997 or earlier:

Siemann, E.H. 1997. Controls of the diversity and structure of grassland insect
communities. PhD. dissertation, University of Minnesota.

Siemann, E., J. Haarstad and D. Tilman. 1997. Short-term and long-term effects of
burning on oak savanna arthropods. *American Midland Naturalist* 137:349-361

Tilman, D, J. Knops, D. Wedin, P. Reich, M. Ritchie and **E. Siemann**. 1997. Functional
diversity and composition simultaneously influence ecosystem processes. *Science*
277: 1300-1302. (highlighted in Perspectives by Grime, Science Daily and other
media)

Tilman,D., S. Naeem, J. Knops, P. Reich, **E. Siemann**, D. Wedin, M. Ritchie and J.
Lawton. 1997. Biodiversity and ecosystem properties. *Science* 278:1865-1866.

Siemann, E., D. Tilman and J. Haarstad. 1996. Insect species diversity, abundance and
body size relationships. *Nature* 380:704-706. (highlighted in News and Views by
Nee and Lawton, highlighted in The Sciences, April 1997)

Siemann, E.H. and L.L. Creasy. 1992. Concentration of the phytoalexin resveratrol in
wine. *American Journal of Enology and Viticulture* 43(1):49-52. (highlighted in NY
Times, Wall St. Journal, Discover [top 20 scientific advances of 1992] and many
other publications)

MANUSCRIPTS IN REVISION:

DeWalt, S.J., **E. Siemann**, W.E. Rogers, H.N. De Silva. Geographic distribution of
genetic variation in introduced populations of Chinese Tallow Tree (36 pages, 6
figures, 2 tables)

MANUSCRIPTS IN REVIEW:

- Hartley, M., W.E. Rogers, and **E. Siemann**. Comparisons of arthropod assemblages on an invasive and native trees: abundance, diversity and damage (36 pages, 6 figures, 2 tables)
- Nijjer, S., W.E. Rogers and **E. Siemann**. Impacts of fertilization on mycorrhizal allocation and effectiveness in Western Gulf Coast grasslands. (22 pages, 1 table, 1 figure)
- *Rua, M.A., S.J. DeWalt, W.E. Rogers, J.W. Zou and E. Siemann. Variation in resistance to generalist insect and mollusk herbivores in Chinese Tallow Tree (*Sapium sebiferum*) populations (17 pages, 1 table)
- Zou, J., S.J. DeWalt, W.E. Rogers and **E. Siemann**. A trade-off between resistance and tolerance to native specialist beetles of the invasive plant *Sapium sebiferum* (25 pages, 1 table, 2 figures)
- Geng, Y., C. Xu, A. Sosa, Y. Zhong, W. Zhang, B. Li, **E. Siemann** and J. Chen. Unexpected importance of phenotypic plasticity in successful invasions of a global weed: evidence revealed by an enhanced biogeographical approach (36 pages, 2 tables, 4 figures)

MANUSCRIPTS IN PREPARATION:

- Grace, J.B., L.K. Allain, **E. Siemann**, and W.E. Rogers. The effects of burning and fertilization on species richness and community biomass in a coastal tallgrass prairie: a multivariate perspective (27 pages, 6 figures, 4 tables)
- Mann, L.E., **E. Siemann**, P.A. Harcombe, and I.S. Elsie. Accelerated invasion of a non-native tree after disturbance (33 pages, 4 tables, 5 figures)
- Siemann, E.**, J Carillo, C. Gabler, S. Nijjer, R. Zipp, and W.E. Rogers. Experimental test of the impacts of feral hogs on forest dynamics and processes in the southeastern US (25 pages, 3 figures, 1 table)

BOOKS:

- Weisser, W.W. and **E. Siemann** (eds). 2004. Insects and Ecosystem Function. Ecological Studies Series. Springer-Verlag. (reprinted in soft-cover 2007)

NON-PEER REVIEWED:

- Siemann, E.**, S. Nijjer and J. Gill*. 2005. Conservation Management Report for Houston Arboretum and Nature Center. 130 pp. [highlighted in Houston Chronicle]

INVITED TALKS:

- Biology Dept., Indiana University, April 20, 2007
- Dinghu Mountain Forest Research Center (Guangdong, China), July 15, 2006
- Dongguan Botanical Garden (Guangdong, China), July 16, 2006
- South China Botanical Institute (Guangdong, China), July 17, 2006
- Dept. of Biology, Fudan University, (Shanghai, China), July 24, 2006
- Wuhan Botanical Garden (Hubei, China), July 25, 2006
- Rangeland Science Dept, TX A&M University, April 4, 2006

Houston Arboretum and Nature Center, October 6, 2005
Biology Department, University of Montana, February 27, 2004.
EPA workshop: 2nd National EPA Nonindigenous Species Workshop , February 4, 2004,
Research Triangle Park, NC.
EPA workshop: EPA STAR Region 6 Environmental Research Seminar, Dallas, TX,
May 28, 2003.
Institut für Ökologie, Friedrich-Schiller-Universität, Jena, Germany, May 23, 2003.
EPA workshop: Use of science in Gulf of Mexico decision making involving climate
change, TX A+M, College Station, TX, May 6, 2003.
Botany and Zoology Depts, University of Toronto, Toronto, Canada, March 3, 2003
Sapelo Island Field Station, University of Georgia, February 22, 2003
Botany Department, University of Florida, Gainesville, FL, February 21, 2003.
Biological Science Dept., Florida State University, Tallahassee, FL, February 20, 2003.
Institut für Ökologie, Friedrich-Schiller-Universität, Jena, Germany, September 16, 2002
Biology Department, University of Louisiana, Lafayette, August 22, 2002.
Pymatuning Lab of Ecology, May 29, 2002
College of Resources and Environmental Sciences, Nanjing Agricultural University,
Nanjing, China, May 3, 2002.
ESF workshop: Manipulating insect herbivory in biodiversity ecosystem function
experiments, Großkochberg, Germany, Sept 23, 2001.
Department of Biological Sciences, Texas Tech University, June 20, 2001.
Department of Ecology and Evolutionary Biology, Yale University, February 19, 2001
DOW, October 26, 2000
NCEAS, Ecological Stoichiometry Working Group, May 1, 2000
National Wetlands Research Center, March 3, 2000
NCEAS, Ecological Stoichiometry Working Group, December 4, 1999
Entomology Department, University of Maryland, November 8, 1999
Biology Department, University of Houston, October 20, 1999
Biology Department, University of Texas, Arlington, October 14, 1999
Conference on Climate Change, Pest Control and Agriculture, Gainesville, Florida,
September 9, 1999
NCEAS, Ecological Stoichiometry Working Group, June 1, 1999
Department of Rangeland Ecology and Management, Texas A+M University. April 6,
1999.
Department of Environmental Sciences, University of California, Santa Barbara. March
19, 1998
Department of Biological Sciences, University of Nebraska. March 12, 1998
Department of Biology, University of Pittsburgh. February 26, 1998
Department of Zoology, University of Washington. February 3, 1998
Department of Ecology and Evolutionary Biology, Rice University. January 26, 1998
Department of Biology, University of New Mexico. October 9, 1996
Department of Biology, University of Pittsburgh. October 4, 1995
Palazzo dei Vini, Florence, Italy. June 10, 1992
Trentino DOC, Milan, Italy. June 8, 1992
Department of Horticulture, University of Minnesota. January 29, 1992
Department of Fruit and Vegetable Science, Cornell University. March 13, 1991

MEETING PRESENTATIONS:

(in every case the first author listed was the presenter unless otherwise noted)

- Park, I.W., S.J. DeWalt, E. Siemann and W.E. Rogers. Effects of overwinter conditions on Chinese Tallow germination along a coastal-inland gradient in South Carolina. Ecological Society of America, 2007, San Jose CA.
- Gabler, C. and E. Siemann. Impacts of management methods and invasive plants on biodiversity, ecosystem function, and successional trajectories in a Texas freshwater marsh restoration after one year. TX SER, 2007, Lubbock, TX.
- Siemann, E. Chinese tallow response to Hurricane Rita in the Neches River Bottom (plenary talk). Big Thicket Science Conference, 2007, Beaumont, TX.
- DeWalt, S.J., W.E. Rogers and E. Siemann. Geographic distribution of genetic variation in introduced populations of Chinese tallow tree. Ecological Society of America, 2006, Memphis, TN.
- Nijjer, S., W.E. Rogers and E. Siemann. Soil feedbacks influence an invasive species in a temperate forest community. Ecological Society of America, 2006, Memphis, TN
- Siemann, E., S.J. Dewalt, W.E. Rogers and J.W. Zou. Effects of biotic interactions on Chinese Tallow Tree invasions. Association of Tropical Biology and Conservation, 2006, Kunming, China..
- Zou, J.W. , W.E. Rogers and E. Siemann. Increased competitive ability and herbivore susceptibility in the invasive plant *Sapium sebiferum* Association of Tropical Biology and Conservation, 2006, Kunming, China.
- Nijjer, S., W.E. Rogers and E. Siemann. Impacts of fertilization on mycorrhizal allocation and effectiveness in Western Gulf Coast grasslands. Texas Academy of Sciences, March 2, 2006, Beaumont, TX.
- Siemann, E. How do herbivores and plant traits influence the success of an invasive plant species: experimental tests with *Sapium* on multiple continents, plenary talk, Interagency Invasive Species PI Meeting, 2005, Washington, D.C.
- Siemann, E., W.E. Rogers and S.J. DeWalt. Rapid adaptation of an invasive plant and its insect herbivores. Interagency Invasive Species PI Meeting, 2005, Washington, D.C.
- Hartley, M.K., J. Grace, L. Allain, W.E. Rogers and E. Siemann. Responses of prairie arthropod communities to fire: balancing plant and arthropod conservation, Interagency Invasive Species PI Meeting, 2005, Washington, D.C. [presenter was Siemann]
- DeWalt, S.J., W.E. Rogers and E. Siemann. Genetic reconstruction of the introduction of Chinese Tallow tree to the United States, SEEPAGE Meeting, 2005., Greenville, N.C.
- Siemann, E. and W.E. Rogers. Do genetic differences in growth and defense contribute to the success of an invasive plant species: Intra- and inter-continental comparisons. Ecological Society of America, 2004, Portland, OR.
- DeWalt, S., E. Siemann and W.E. Rogers. Genetic reconstruction of the introduction of Chinese tallow tree to the United States. Ecological Society of America, 2004, Portland, OR.
- Donahue, C., W.E. Rogers and E. Siemann. Restoring an invaded prairie: Effects of *Sapium sebiferum* (Chinese tallow tree) mulch on seed germination. Ecological

- Society of America, 2004, Portland, OR.
- Donahue, C., W.E. Rogers and E. Siemann. Effects of *Sapium sebiferum* (Chinese tallow tree) Mulch on Seed Germination -- Restoring an Invaded Prairie Texas Society for Ecological Restoration, 2004, Clear Lake, TX.
- Hartley, M, W.E. Rogers and E. Siemann. A comparison of arthropod assemblages on native trees versus the introduced Chinese tallow (*Sapium sebiferum*). Ecological Society of America, 2004, Portland, OR.
- Nijjer, S., W.E. Rogers and E. Siemann. Mycorrhizal effects on the growth of five native tree species and the invasive *Sapium sebiferum*. Ecological Society of America, 2004, Portland, OR.
- Rogers, W.E. and E. Siemann. Chinese tallow tree invasions of Texas coastal prairie: Effects of fire, fertility and herbivores. Ecological Society of America, 2004, Portland, OR.
- Weisser, W. and E. Siemann. Models of insect herbivory and ecosystem productivity. Ecological Society of America, 2004, Portland, OR.
- *Butterfield, B.J., W.E. Rogers and E. Siemann. 2004. Growth of Chinese tallow tree (*Sapium sebiferum*) and four native trees along a water gradient. Natural Sciences Undergraduate Research Symposium, Rice University, Houston, TX. (winner of best undergraduate research presentation).
- Donahue, C., E. Siemann and W.E. Rogers. Effects of *Sapium sebiferum* (Chinese tallow tree) mulch on seedling germination -restoring an invaded prairie. Society for Ecological Restoration, Austin, TX, November 2003.
- Hartley, M.K., W.E. Rogers and E. Siemann. A comparison of arthropod assemblages on native trees versus the introduced Chinese Tallow (*Sapium sebiferum*). Society for Ecological Restoration, Austin, TX, November 2003.
- *Butterfield, B.J., E. Siemann and W.E. Rogers. Growth of Chinese tallow and four native species along a water gradient. Big Thicket Science Conference. October 2003.
- Nijjer, S., W.E. Rogers and E. Siemann. Mycorrhizal fungi may influence Chinese Tallow Tree invasions in East Texas Forests. Big Thicket Science Conference. October 2003
- Hartley, M.K., W.E. Rogers and E. Siemann. A comparison of arthropod assemblages on native trees versus the introduced Chinese Tallow (*Sapium sebiferum*). Big Thicket Science Conference. October 2003
- Siemann, E. and W.E. Rogers. Large-scale experimental tests of recruitment limitation and Chinese Tallow Tree invasions, Plenary Talk, Big Thicket Science Conference, October 2003
- Rogers, W. E. and E. Siemann. Post-introduction evolutionary increases in the competitive ability of an invasive tree are negated by herbivores from its native range. ESF Workshop on Biological invasions in terrestrial ecosystems: an evolutionary perspective, Halle, Germany, 2002. (Highlighted presentation in Trends in Ecology and Evolution 17(12):545-546)
- Siemann, E. Ecological and evolutionary effects of herbivores on plant invasions, Ecological Society of Germany, Austria and Switzerland, Cottbus, Germany, 2002 (invited symposium talk).
- Siemann, E. Gulf Coast Region Climate Change Report. Ecological Society of America,

- workshop on UCS/ESA regional climate change reports, 2002, Tucson, AZ.
- Siemann, E. and W.E. Rogers. Large-scale experimental tests of recruitment limitation and alien plant invasions. Ecological Society of America, 2002, Tucson, AZ.
- Rogers, W.E. and E. Siemann. Escaping the "to grow or defend" dilemma of plants: an explanation for the invasive success of an exotic tree species. Ecological Society of America, 2002, Tucson, AZ.
- *Lankau, R., W.E. Rogers, and E. Siemann. Effects of light and flooding on the invasion of *Sapium sebiferum* into coastal prairies, Ecological Society of America, 2002, Tucson, AZ.
- Hartley, M.K., J. Grace, L. Allain, W.E. Rogers and E. Siemann. Responses of prairie arthropod communities to fire: balancing plant and arthropod conservation, Ecological Society of America, 2002, Tucson, AZ.
- *Lankau, R., W.E. Rogers, and E. Siemann. 2002. The role of native generalist herbivores in Chinese tallow tree (*Sapium sebiferum*) invasions into coastal prairie. Natural Sciences Undergraduate Research Symposium, Rice University, Houston, TX. (winner of best undergraduate research presentation).
- Fagan WF, Siemann E, Mitter CM, Denno RF, Huberty AF, Woods HA. Nitrogen in insects: Implications for trophic complexity and species diversification. Society for Integrative and Comparative Biology. [published as Integrative and comparative biology. 2002. 42 (6): 1228-1228]
- Siemann, E. and W.E. Rogers. Evolution of increased competitive ability in an invasive tree species. Society for Conservation Biology, 2001, Hilo, HI.
- Rogers, W.E., E. Siemann and J. Grace. Fire, fertility, and herbivore effects on Chinese tallow (*Sapium sebiferum*) invasion of coastal prairie. Society for Conservation Biology, 2001, Hilo, HI.
- Rogers, W.E. and E. Siemann. Effects of herbivory and resources on Chinese tallow (*Sapium sebiferum*) invasion of native coastal prairie. Ecological Society of America, 2001, Madison, WI.
- *Lankau, R., E. Siemann and W.E. Rogers. The role of native generalist herbivores in Chinese Tallow Tree (*Sapium sebiferum*) invasions into coastal prairie. Ecological Society of America, 2001, Madison, WI.
- Siemann, E. Chinese Tallow Invasion in Prairies and Forests: Using Ecology to Develop New Methods of Control, Wildlife Habitat Council, 2000, Baltimore, MD.
- Siemann, E. and W.E. Rogers. Does lack of herbivory and disease explain the success of an alien plant species: Experimental tests. Ecological Society of America, 2000. Snowbird, UT.
- Rogers, W.E. and E. Siemann. Interactive effects of resources and herbivory on tree growth: Experimental tests using a native and an invasive exotic species. Ecological Society of America, 2000. Snowbird, UT.
- Rogers, W.E. and E. Siemann. Chinese Tallow Tree invasion: the role of resources. Big Thicket Science Conference. Beaumont, TX, October 1999.
- Siemann, E. and J. Brown. Gaps in mammalian body size distributions reexamined. Ecological Society of America, 1999, Spokane, WA.
- *Lankau, R., E. Siemann, W. Rogers, M. Leibold and J. Brown. Predator to prey species ratios: the roles of species richness and primary productivity. Keck Center Undergraduate Research Training Program, Baylor College of Medicine, August

- 1999.
- Siemann, E., J. Haarstad and D. Tilman. Arthropod diversity in experimental grassland ecosystems. Ecological Society of America, 1997, Albuquerque, NM
- Symstad, A.J., E. Siemann and J. Haarstad. An experimental test of the relationship between plant and arthropod functional composition. Ecological Society of America, 1997, Albuquerque, NM
- Siemann, E. Experimental tests of the relationships among productivity, heterogeneity and diversity. Ecological Society of America, 1996, Providence, RI
- Siemann, J. Haarstad and D. Tilman. Insect diversity in oak savannahs at Cedar Creek, Minnesota. Symposium: Dynamics of Temperate and Tropical Savannahs, Department of Forest Resources, University of Minnesota, May 6, 1996
- Siemann, E., D. Tilman and J. Haarstad. Diversity and trophic structure of an insect community: patterns across time and space. Ecological Society of America, 1995, Snowbird, UT
- Siemann, E., D. Tilman and J. Haarstad. Diversity, abundance and body size: relationships and patterns from an insect community. Ecological Society of America, 1994, Knoxville, TN

TEACHING EXPERIENCE:

Rice University:

courses for 2007-2008

- BIOS 202 Introductory Biology (spring 2008)
- BIOS 316 Field Ecology Lab (taught or co-taught 9 times)
- BIOS 403/404 Undergraduate Honors Research (7 students supervised to date, 3 students for 2007-2008)
- BIOS 563 Topics in Ecology (9 times)
- BIOS 569 Graduate Core Course in Ecology and Evolutionary Biology [co-created course] (co-taught 2 times)

courses taught previously

- BIOS 310 Independent Undergraduate Research (15 times)
- BIOS 323 Conservation Biology [created course] (4 times)
- BIOS 325 Ecology (4 times)
- BIOS 401/402 Undergraduate Honors Research (2 students)
- BIOS 541 Topics in Plant Physiological Ecology (1 time)
- BIOS 541 Topics in Insect Diversity (1 time)
- BIOS 568 Topics in Biological Diversity [created course] (7 times)
- BIOS 585/586 Graduate Seminar in Ecology and Evolution (4 times)
- BIOS 591 Supervision of Graduate Teaching (13 students)

University of Minnesota:

Co-Lecturer and Co-Course Coordinator:

Introduction to Ecology (non-majors)

Teaching Assistant: General Biology [4 times], Ecology (majors) [3 times],

Introduction to Ecology (non-majors), Theoretical Population Ecology

Cornell University:

lab coordinator: Viticulture

STUDENTS AND POST-DOCS:

Advisor:

PhD -

Juli Carillo (PhD), 2007-present

AGEP Fellowship, Ford Fellowship, NSF pre-doctoral fellowship

Chris Gabler (PhD), 2005-present

Garden Club of America award, Wray-Todd Fellowship, Dean's fellowship, Houston Rodeo Fellowship

Jianwen Zou, PhD 2007 “Shifts in traits of the invasive plant *Sapium sebiferum* and their effects on ecosystem carbon and nitrogen processes”

Wray-Todd Fellowship, Dean's fellowship

Maria Hartley, M.S. (non thesis) 2002, PhD. 2006 “Insect community response to Chinese Tallow (*Sapium sebiferum*)”

Wray-Todd Fellowship, Dean's fellowship

Somereet Nijjer, PhD 2006 “Understanding belowground community regulation in an invaded forest”

Wray-Todd Fellowship, Dean's fellowship

M.A. (with thesis):

Amy Johnson, M.A. 2006 “An investigation of the allelopathic potential of Chinese tallow tree (*Sapium sebiferum*)”

Wray-Todd Fellowship, Dean's fellowship, Presidential Fellowship

Joe Hinton, M.A. 2006 “Red wolf (*Canis rufus*) home range, habitat use, and pup attendance during the pup rearing season”

Wray-Todd Fellowship, Dean's fellowship

Candice Donahue, M.A. 2004 “Restoring a prairie: testing effectiveness of Chinese Tallow Tree (*Sapium sebiferum*) mulch to reduce seedling emergence”

post-doc:

William Rogers, post-doc 1998-1999

Co-Advisor (non-thesis Professional Master of Science in Environmental Analysis and Decision Making):

Nada Ahmed 2007-present

Summer Edison, 2006-present

Rachelle Petrovic, 2006-present

Takumi Shiraishi, 2006-present

Dan Mills, M.S. 2007

Myriam McChargue, M.S. 2007

Matt Slezak, M.S. 2007

Varun Anand, M.S. 2006
Ellice Lin, M.S. 2006
Sarah Mason, M.S. 2006
Avanti Tamhane, M.S. 2006
Iain Cowie, M.S. 2005
Andrea Crumpacker, M.S. 2005
Christy Mak, M.S. 2005
Christine Robichaud, M.S. 2005
Douglas Thompson, M.S. 2004
Natalie Irwin, M.S. 2004
Bill Schleizer, M.S. 2004

Committee:

Anthony Kinyo (PhD, expected 2010)
Scott Chamberlain (PhD, expected 2012)
Kerri Crawford (PhD, expected 2012)
Chuan-Kai Ho (PhD expected 2006, University of Houston)
Juan Jimenez (PhD, expected 2007, University of Houston)
James Cronin PhD, 2006, (University of Pittsburgh)
Cristiano Salgado, M.S. 2004 (University of Houston)
Michael Henshaw, PhD 2000
Jie Lin, PhD 2001
Eva Toth, PhD 2001
Lisa Mann, M.A. 2006

Supervisor:

William Rogers (Huxley Postdoctoral Fellow, 1999-2003)
currently Assistant Professor TX A&M
Saara DeWalt (Huxley Postdoctoral Fellow, 2003-2005)
currently Assistant Professor Clemson University

SERVICE:

Non-university:

Member, Board of Directors, Houston Arboretum , 2005-present
Member, Stewardship Advisory Board, Armand Bayou Nature Center, 2004-present
Member, Science Advisory Board, Katy Prairie Conservancy, 2004- present
Associate Editor, Ecology, 2005-2007
Session moderator, Big Thicket Science Conference, 2007.
Merit Badge Instructor, Boy Scouts [Bird Study, Fish & Wildlife Management, Mammal Study, Insect study, Reptile and Amphibian Study] 2005, 2006
Publications Committee, 4th Big Thicket Science Conference, 2005-2006
Mentor, Clear Lake High School Research Program, 2005-2006
Strand editor “Interdependence of Life and Environmental Systems” for the Biology Online project being developed by Baylor College of Medicine to prepare grades 8-12 science teachers to teach in the life sciences.

Panel Member:

USDA NRICGP - Biology of Weedy and Invasive Plants, Spring 2002.
Reviewer for: Agroforestry Systems, American Midland Naturalist, American Naturalist, Basic and Applied Ecology, Biodiversity and Conservation, Bioscience, Diversity and Distributions, Ecography, Ecological Applications, Ecological Entomology, Ecological Monographs, Ecology, Ecology Letters, Ecoscience, Ecosystems, Environmental Institute of Houston competitive grants program, Forest Ecology and Management, Frontiers in Ecology, Functional Ecology, Global Ecology and Biogeography, Heredity, Journal of Biogeography, Journal of Animal Ecology, Journal of Ecology, Journal of the Kansas Entomological Society, Journal of Vegetation Science, National Fish and Wildlife Foundation, National Science Foundation [Ecology, Ecology RUI, Geography and Regional Science RUI, Population Biology], Natural Environment Research Council (UK) [Terrestrial Sciences Peer Review Committee], Oecologia, Oikos, Proceedings of the Royal Society of London B, Texas Journal of Science, Tree Physiology, USDA [NRICGP - Biology of Weedy and Invasive Plants], Weed Technology
Publications chair - 3rd Big Thicket Science Conference, 2002-2004
Editor, Texas Journal of Science, Big Thicket Science Conference Special Issue, 2004
Session Chair, ESA meetings, 1999
Member: Union of Concerned Scientists/Ecological Society of America Committee on ecological impacts of climate change on the Gulf Coast region, 2000-2001
Advisor, United States Marine Corps - developing a Chinese Tallow Tree control program for Paris Island, 2003.
Policy Advisor 2002-2003:
Texas Governor (Perry), Texas Department of Agriculture, Texas House of Representatives Committee on Environmental Regulation, Texas Lt. Governor (Ratliff), Texas House of Representatives - Speaker (Laney), Tony Sanchez for Governor Campaign, TNRCC, Houston Mayor (Brown), Harris County Judge Eckels, Collin County Judge Harris, Senator Ken Bentsen

Rice University:

Member, Dean of Natural Sciences Search Committee, 2007-present
Chair, Faculty Senate, working group on academic calendar, 2007-present.
Member, Faculty Senate, 2006-present
Member, Faculty Senate, working group on athletic admissions, 2006-present
Institutional Animal Care and Use Committee, Member 2005-2007, Vice-chair 2007-present
Co-Director, Professional Master's (M.S.) degree in Environmental Analysis & Decision-Making (EADM), 2003-present.
Biosciences Curriculum Committee, 2001-present
Natural Sciences Divisional Advisor, Will Rice College, 2000-present
(freshmen 2000, 2001, 2002, 2004; sophomores, 2001, 2002, 2003, 2005, 2007)
Faculty Associate, Will Rice College, 1999-present
Faculty Sponsor, EEB Graduate Student Association, 2006-present
Chair, Faculty Senate, Academic calendar working group, 2007-present.
Departmental Representative, NSF ADVANCE "Negotiating the ideal faculty position" Workshop, 2006, 2007
Mentor, AGEF [Alliances for the Graduate and Educational Professoriate] Summer program (1 graduate student, 1 undergraduate student), 2007
Representative, SACS Biology Degrees Reaccreditation Assessment Group 2007
Member, Advisory Board Energy and Environmental Systems Institute, 2001-2007
Science and Engineering Deans leadership workshop, EEB representative, 2007
Member, University Research Council, 2002-2007
Departmental Representative, NSF ADVANCE "Negotiating the ideal faculty position" Workshop, 2006
Owl Week Natural Science Panel, 2007
Member QEP Reaccreditation Committee 2005-2006
Core faculty member, Shell Center for Sustainability, 2002-2006
Representative, SACS Biology Degrees Reaccreditation Group 2005-2006
Member, Remote Sensing Group of the Rice Space Institute 2001-2003
Judge, Rice Undergraduate Research Symposium, 2003
Member, Energy and Environmental Systems Institute Executive Director Search Committee, 2002
Alumni College Lecturer, 2002
Mentor, Rice Undergraduate Scholars Program, 2001 (Rick Lankau)
University Committee on Online Graduate Applications, 2000
O-week dinner host, Will Rice College, 1999, 2000, 2001, 2002, 2003
Executive Committee, AGEF, 1999-2004
Mentor, Diversity Graduate Program in Science and Engineering (Chanda Jones, TX A+M, Corpus Christie), summer 1999
Mentor, Undergraduate Research Training Program in Computational Biology, (Rick Lankau, Rice University), summer 1999
Departmental Representative, Owl Weekend 1999
Faculty Associate, Baker College, 1998-1999

Rice EEB:

Greenhouse Committee, Chair 1998-2002, Chair 2006-present

Graduate Student Assessment Committee, Chair, 2005-present
EEB undergraduate curriculum committee, 2006-present
EEB graduate curriculum committee, 2006-present
EEB TA committee, 2007-present
Junior Faculty Mentor, Nat Holland 2003-present, Jenn Rudgers 2005-present
Major advisor, transfer credit advisor, 2006-present
Assistant Professor of Ecology Search Committee, Search Chair and acting Dept. Chair
for search, 2006-2007
Webmaster, 2002-2006
Director of Graduate Studies, 1999-2006
Assistant Director of Graduate Studies, 2006-2007
Department Coordinator Interview Committee, 2006
Huxley Instructor Search Committee, 2005
Assistant Professor of Ecology Search Committee, Search Chair and acting Dept. Chair
for search, 2004-2005
Department Coordinator Interview Committee 2005
Vice Chair, Fall 2004
Department Administrator Interview Committee 2003, 2004
Assistant Professor of Ecology Search Committee, Chair, 2002-2003
Huxley Instructor Search Committee Co-chair, 2002-2003
Rice Prairie Committee 1999-2002
Departmental Seminar Coordinator, 1999-2002
Department Chair Search Committee, 2000-2001
Assistant Professor of Evolution Search Committee, 1999-2000
Huxley Instructor Search Committee Chair, 1999