



AGENDA REPORT
January 23, 2018

SUBJECT:

Appointment of member to Environmentally Endangered Lands (EEL) Program Selection and Management Committee (SMC)

FISCAL IMPACT:

Fiscal Impact: There are no impacts to General Revenue or EEL Program funds.

DEPT/OFFICE:

Parks and Recreation

REQUESTED ACTION:

Appoint a qualified candidate as a replacement citizen volunteer to the EEL Selection and Management Committee (SMC).

SUMMARY EXPLANATION and BACKGROUND:

On October 20, 2017, Sue Hann resigned from her position on the SMC. A replacement committee member will need to be appointed by the County Commission. As per the established procedure in the EEL Land Acquisition Manual, the BoCC has two options available to replace a committee member.

Option 1:

Select from the most recent (not exceeding 2 years) pool of qualified applicants / nominees. Two qualified applicants / nominees are currently available from the previous pool and were previously ranked by the BoCC during the last appointment process on October 18, 2016. One of these candidates (Tammy E. Foster) received a tied-score with the previous Alternate Committee Member who has already been appointed to the Committee. The two qualified candidate's scores from the BoCC's previous ranking are included below. Each candidate's resume is also attached.

Tammy E. Foster Ph.D.

Initial Ranking Score: 122 County Commission Ranking (Oct. 2016) 8

Brooke Wheeler Ph.D.

Initial Ranking Score: 106 County Commission Ranking (Oct. 2016) 4

Option 2:

The BoCC can direct staff to prepare a public advertisement as a call for qualified citizen volunteers. This option requires public advertisement of the committee opening followed by an initial ranking by the Qualifying Committee. The Qualifying Committee then presents their initial ranking to the EEL Procedures Committee for verification through a majority vote. Staff would then provide the list of qualified applicants to the BoCC for final ranking and appointment of the highest ranked candidate / nominee.

Tammy Foster has indicated to staff that she is still willing to serve on the SMC and is able to fill a seat immediately, if she is appointed.

CLERK TO THE BOARD INSTRUCTIONS:

Please forward Board Direction Memo to the EEL Program

ATTACHMENTS:

Description

- ▢ **FOSTER RESUMECV**
- ▢ **WHEELER RESUMECV**

REVIEWERS:

Department

Parks and Recreation

Parks and Recreation

Parks and Recreation

Parks and Recreation

ACM Community Services

County Manager

Reviewer

Ashbury, Jenny

Ashbury, Jenny

Knight, Mike

Donner, Mary Ellen

Liesenfelt, Jim

Abbate, Frank



Tammy Rowe, Clerk to the Board, 400 South Street • P.O. Box 999, Titusville, Florida 32781-0999

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Fax: (321) 264-6972
Tammy.Rowe@brevardclerk.us

January 24, 2018

M E M O R A N D U M

TO: Mary Ellen Donnor, Parks and Recreation Director

RE: Item VI.B.1., Appointment of Environmentally Endangered Lands (EEL) Program Selection and Management Committee (SMC)

The Board of County Commissioners, in regular session on January 23, 2018, appointed qualified candidate, Tammy Foster as a citizen volunteer to the EEL Selection and Management Committee replacing Sue Hann.

Your continued cooperation is always appreciated.

Sincerely,

BOARD OF COUNTY COMMISSIONERS
SCOTT ELLIS, CLERK

Tammy Rowe

Tammy Rowe, Deputy Clerk

/kp

cc: EEL Manager



Tammy Rowe, Clerk to the Board, 400 South Street • P.O. Box 999, Titusville, Florida 32781-0999

Telephone: (321) 637-2001
Fax: (321) 264-6972
Tammy.Rowe@brevardclerk.us

January 24, 2018

Tammy E. Foster, Ph.D
2236 Norwood Court
Cocoa, FL 32926

Dear Dr. Foster:

Re: Appointment to Environmentally Endangered Lands Selection and Management Committee

The Board of County Commissioners, in regular session on January 23, 2018, acknowledged your appointment as a citizen volunteer to the Environmentally Endangered Lands Selection Committee. Said term of appointment expires December 31, 2018. Enclosed are memorandums explaining the "Sunshine Law" and 2016 changes to Voting Conflict Law for your information.

Your willingness to serve the citizens of Brevard County in this capacity is appreciated.

Sincerely,

BOARD OF COUNTY COMMISSIONERS
SCOTT ELLIS, CLERK

Tammy Rowe, Deputy Clerk

/dt

Encls. (2)

cc: EEL Program Manager
Parks and Recreation Director

TAMMY E. FOSTER

EDUCATION:

Ph.D, Integrative Biology, University of South Florida, Tampa, FL, 2014
M.S., Botany, University of South Florida, Tampa, FL, 2002
B.S., Biology, Eastern College, St. David's, PA, 1996

PROFESSIONAL TRAINING:

Introduction to ArcView GIS, ESRI, 2000
Learning ArcGIS, ESRI, 2002
Migration from ArcView 3.x to ArcView 8, ESRI, 2002
Primer-E Multivariate Statistics Workshop, St. Petersburg FL, 2002
Grass and Sedge ID Workshop, Sarasota SWCD, 2002
Freshwater Wetland and Upland Restoration in the Southeastern Coastal Plain, University of Maine, 2005
Introduction to R, Coursera, 2015
Eddy Covariance Training, LiCor, 2015

AWARDS:

NASA Earth System Science Fellowship, 1998-2000
NASA Causeway Seawall Replacement Project: In recognition of your continued support of the KSC Environmental and /or Energy Program. Team Member, 2009

SUMMARY OF EXPERTISE:

Experience in conducting vegetation studies and surveys, as well as conducting plant physiological ecology research. Proficient in R, ArcGIS, Trimble GPS usage, GPS pathfinder, SigmaPlot, SPSS, Microsoft Office Products, dBase, and Endnote

PROJECT EXPERIENCE:

National Aeronautics and Space Administration, Kennedy Space Center, 2000-Present. Co-investigator. Collaborate on the design and implementation of a scrub restoration program for Kennedy Space Center. Monitor vegetation changes after combinations of cutting and burning to restore long-unburned scrub habitat. Monitor survival and growth of scrub species planted in former agricultural sites. Map acid and particulate deposition after shuttle launches. Conduct research on scrub oaks using dendrochronology and plant physiology techniques. Collaborate on design, data analysis, and writing of interdisciplinary projects in the Ecological Programs.

United States Air Force, 45th Space Wing, 2007-2010. Co-investigator. Monitor scrub vegetation changes for CCAFS scrub habitat restoration study.

United States Army Corps of Engineers, 2007. Principle investigator. Conduct surveys and prepare uniform mitigation assessments of wetlands and surface waters on land to be used for the Indian River Lagoon-South C-23/24 Stormwater Treatment Area in St. Lucie County, Florida.

United States Army Corps of Engineers, 2006. Co-investigator. Conduct surveys for threatened and endangered plants on land to be used for the Indian River Lagoon-South C-23/24 Stormwater Treatment Area and reservoir in St. Lucie County, Florida.

Brevard County Natural Resources Management Office, 2004-2005. Co-investigator. Conduct surveys for threatened and endangered scrub plants in Brevard County, Florida.

Brevard County Natural Resources Management Office, 2003-2004. Co-investigator. Conduct surveys for selected threatened and endangered plants in Brevard County, Florida.

National Park Service, Canaveral National Seashore, 2002-2004. Co-investigator. Compile floristic inventory and survey for threatened and endangered plants on Canaveral National Seashore, Florida.

United States Air Force, 45th Space Wing, 2000-2003. Co-investigator. Monitored vegetation changes after combinations of cutting and burning to restore long-unburned scrub habitat.

EXPERIENCE HISTORY:

2015-present, Plant Ecologist, Integrated Mission Support Services, Kennedy Space Center, FL

2009-2015, Plant Ecologist, InoMedic Health Applications, Kennedy Space Center, FL

2000- 2009, Plant Ecologist, Dynamac Corporation, Kennedy Space Center, FL.

1997-1999, Graduate Research and Teaching Assistant, University of South Florida, Biology Dept., Tampa, FL.

PRESENTATIONS AND ABSTRACTS:

Foster, T.E., P.A. Schmalzer, and G.A. Fox 2013. Climate-growth relationships for slash pine and two dominant oaks in Florida scrub. Abstract of presented paper. Florida Native Plant Society.

Foster, T.E., P.A. Schmalzer, and G.A. Fox. 2012. Changes in distribution and physiology of scrub oaks along a hydrologic gradient. Abstract of presented paper. 2012 Natural Areas Conference.

Foster, T.E., P.A. Schmalzer, and G.A. Fox. 2011. Site differences in growth response of *Quercus myrtifolia* to climate. Abstract of presented paper. Ecological Society of America Annual Meeting.

Foster, T.E., P.A. Schmalzer, and G. A. Fox. 2010. Correlation between climate and growth for Florida scrub oaks: A dendroecology study. Poster presented at Ecological Society of America Meeting, August 5, 2010, Pittsburgh, Pennsylvania. Abstract available online at <http://www.esa.org>.

Schmalzer, P.A. and T.E. Foster. 2010. Responses of long-unburned oak-saw palmetto scrub to repeated cutting or burning. Poster presented at Ecological Society of America Meeting, August 5, 2010, Pittsburgh, Pennsylvania. Abstract available online at <http://www.esa.org>.

Foster, T.E., G.A. Fox, and P.A. Schmalzer. 2008. Relationships between height growth and climatic variables for three Florida scrub oaks. Presentation at Ecological Society of America Meeting, August 8, 2008, Milwaukee, Wisconsin.

Foster, T.E., G.A. Fox, and P.A. Schmalzer. 2008. Relationships between height growth and climatic variables for three Florida scrub oaks. Abstract of presented paper. Ecological Society of America Annual Meeting. Published on CD.

- Schmalzer, P.A. and T.E. Foster. 2007. The role of disturbance in maintaining rare scrub plants: Examples from Brevard County, Florida. Presentation to Florida Native Plant Society Annual Conference, Gainesville, Florida, April 21, 2007.
- Schmalzer, P.A. and T.E. Foster. 2007. Responses of Florida oak scrub vegetation to multiple cycles of cutting and burning. Abstract of presented poster. Ecological Society of America/Society for Ecological Restoration International Joint Meeting. Published on CD.
- Foster, T.E. and P.A. Schmalzer. 2006. The importance of county-acquired lands for the persistence of rare scrub plants in Brevard County, Florida. Presentation at Florida Academy of Sciences Meeting, Florida Institute of Technology, Melbourne, Florida, March 10, 2006.
- Foster, T.E. and P.A. Schmalzer. 2006. The importance of county-acquired lands for the persistence of rare scrub plants in Brevard County, Florida. Abstract of presented paper in: Florida Scientist 69 (Supplement 1): 70-71.
- Foster, T.E. and P.A. Schmalzer. 2005. Preliminary characterization of habitat for rare scrub plants in Brevard County, Florida. Poster presentation Ecological Society of America 90th Annual Meeting, August 11, 2005, Montreal, Quebec, Canada.
- Foster, T.E. and P.A. Schmalzer. 2005. Preliminary characterization of habitat for rare scrub plants in Brevard County, Florida. Abstract of presented poster in: Ecological Society of America 2005 Annual Meeting Abstracts. p. 199.
- Schmalzer, P.A. and T.E. Foster. 2005. Flora and rare plants of Canaveral National Seashore. Abstract of presented paper in: Technical Bulletin of the Florida Mosquito Control Association 6:20.
- Schmalzer, P.A., and T.E. Foster. 2004. Flora and rare plants of Canaveral National Seashore. Abstract of presented paper in: Florida Native Plant Society 24th Annual Conference Program, Lake Buena Vista, Florida. p. 5.
- Schmalzer, P.A. and T.E. Foster. 2004. Rare plants of Canaveral National Seashore. Abstract of presented paper in: Florida Scientist 67(Supplement 1): 48-49.
- Foster, T.E. and P.A. Schmalzer. 2003. The effect of season of fire on the recovery of Florida scrub. Presentation at Second International Wildland Fire Ecology and Fire Management Congress, Orlando, Florida, November 18, 2003.
- Foster, T. E. and P. A. Schmalzer. 2003. The effect of season of fire on the recovery of Florida scrub. Presentation at Ecological Society of America Meeting, August 4, 2003. Savannah, Georgia.
- Foster, T. E. and P. A. Schmalzer. 2003. The effect of season of fire on the recovery of Florida scrub. Abstract of presented paper in: Ecological Society of America 2003 Annual Meeting Abstracts. p. 111.
- Schmalzer, P.A. and T.E. Foster. 2003. Characteristics of long-unburned scrub on the Merritt Island/Cape Canaveral barrier island complex before restoration. Abstract of presented poster in: Ecological Society of America 2003 Annual Meeting Abstracts. p. 299.

Schmalzer, Paul A., T. E. Foster, S. R. Turek, and C. A. Dunlevy. 2002. Dynamics of openings in Florida oak-saw palmetto scrub created by intense localized burning. Abstract of presented paper in: *Southeastern Biology* 49(2): 194.

Dreschel, T.W., T.E. Foster, and C.R. Hall. 2001. A ground-based test bed for evaluating plant remote sensing technologies. Abstract of presented paper in: *Florida Scientist* 64 (Suppl. 1):18-19.

Foster, T.E. and J.R. Brooks. 2001. Water-use efficiency of twelve species in the Florida scrub. Abstract of presented paper in: *Florida Scientist* 64 (Suppl. 1):19.

Foster, T.E. and J.R. Brooks. 2001. Water use of eleven species in the Florida scrub. Presentation to Florida Scrub Symposium 2001. Abstract of presented paper in: Program of the Florida Scrub Symposium 2001. p. 19.

Foster, T. E. and J. R. Brooks. 2001. The robustness of physiologically based functional groups in Florida scrub. Abstract of presented paper in: Ecological Society of America 2001 Annual Meeting Abstracts. p. 92.

Schmalzer, P.A., S.R. Turek, T.E. Foster, C. A. Dunlevy, and F. W. Adrian. 2001. Reestablishing Florida scrub in a former agricultural site: Survival and growth of planted species. Abstract of presented paper in: Ecological Society of America 2001 Annual Meeting Abstracts. p. 200.

PUBLICATIONS:

Foster, T. E. and J. R. Brooks. 2001. Long-term trends in growth of *Pinus palustris* and *Pinus elliottii* along a hydrological gradient in central Florida. *Can. J. For. Res.* 31(10): 1661-1670.

Foster, T.E. and J.R. Brooks. 2001. Water use efficiency of eleven species in the Florida scrub. Pp. 41-43 in D. Zattau. (ed.). Proceedings of the Florida Scrub Symposium 2001. U.S. Fish and Wildlife Service. Jacksonville, Florida. 63 p.

Duncan, B.W., P.A. Schmalzer, and T.E. Foster. 2002. Mapping shuttle launch clouds at KSC. *GeoSpatial Solutions* 12(11): 32-37.

Foster, T.E. 2002. Functional groups based on leaf physiology: Are they spatially and temporally robust [thesis]. Tampa, FL: University of South Florida. 83 p.

Foster, T.E. and J.R. Brooks. 2002. Identifying plant functional groups based on leaf physiology in the Florida Scrub: Are they spatially and temporally robust? NASA TM-2002-211174. 84 p.

Schmalzer, P.A., T.E. Foster, and B.W. Duncan. 2002. Revised flora and list of threatened and endangered plants for the John F. Kennedy Space Center area, Florida. NASA TM-2002-211175. 75 p.

Schmalzer, P.A., S.R. Turek, T.E. Foster, C.A. Dunlevy, and F.W. Adrian. 2002. Reestablishing Florida scrub in a former agricultural site: Survival and growth of planted species and changes in community composition. *Castanea* 67:146-160.

- Foster, T.E. and P.A. Schmalzer. 2003. The effect of season of fire on the recovery of Florida scrub. In: Proceedings of the Second International Wildland Fire Ecology and Fire Management Congress, American Meteorological Society, Published on CDROM and at <http://www.ametsoc.org>.
- Schmalzer, P.A. T. E. Foster, and F.W. Adrian. 2003. Responses of long-unburned scrub on the Merritt Island/Cape Canaveral barrier island complex to cutting and burning. In: Proceedings of the Second International Wildland Fire Ecology and Fire Management Congress, American Meteorological Society, Published on CDROM and at <http://www.ametsoc.org>.
- Dreschel, T.W., C.R. Hall, and T.E. Foster. 2004. Demonstration of a porous tube hydroponic system to control plant moisture and growth. NASA TM2004-211533. 21 p.
- Dreschel, T.W., C.R. Hall, T. E. Foster, M. Salganic, L. Warren, and M. Corbett. 2005. Examining Dehydration and Hypoxic Stress in Wheat Plants Using a Porous Tube Plant Nutrient Delivery System Developed for Microgravity. Paper number 05ICES-64, The International Conference on Environmental Systems, Rome, Italy, July 2005.
- Foster, T.E. and J.R. Brooks. 2005. Functional groups based on leaf physiology: are they spatially and temporally robust? *Oecologia* 144: 337-352.
- Foster, T.E. and P.A. Schmalzer. 2012. Growth of *Serenoa repens* planted in a former agricultural site. *Southeastern Naturalist* 11(2): 331-336
- Foster, T.E. 2014. Water availability as the driving factor of growth and physiological function of co-occurring scrub species in central Florida [dissertation]. Tampa, FL: University of South Florida. 142 p.
- Foster, T.E., P.A. Schmalzer, and G.A. Fox. 2014. Timing matters: The seasonal effect of drought on tree growth. *Journal of the Torrey Botanical Society* 141(3):225-241.
- Foster, T.E., P.A. Schmalzer, and G.A. Fox. 2015. Seasonal climate and its differential impact on growth of co-occurring species. *European Journal of Forest Research* 134(3):497-510.
- Schmalzer, P.A., and T.E. Foster. 2016. Flora and threatened and endangered plants of Canaveral National Seashore, Florida. *Castanea* 81(2) 91-127.
- Foster, T.E., E. Stolen, C. Hall, R. Schaub, B. Duncan, D. Hunt and J. Drese (submitted 2016) Modeling vegetation community responses to sea-level rise on low-lying coastal alluvial and barrier island systems: A case study on the Cape Canaveral Barrier Island Complex, Florida USA. In review PLOS One.

TECHNICAL REPORTS

- Schmalzer, P.A. and T.E. Foster. 2003. Survey of Brevard County, Florida for three rare plants: *Warea carteri*, *Nolina brittoniana*, and *Polygala lewtonii*. Final report to Brevard County Natural Resources Management Office. Dynamac Corporation, Kennedy Space Center, Florida. 29 p.

- Schmalzer, P.A. and T.E. Foster. 2003. Survey of Brevard County, Florida for *Harrisia fragrans*. Final report to Brevard County Natural Resources Management Office. Dynamac Corporation, Kennedy Space Center, Florida. 29 p.
- Schmalzer, P.A. and T.E. Foster. 2004. Survey of Brevard County, Florida for *Deeringothamnus rugelii* and *Deeringothamnus pulchellus*. Final report to Brevard County Natural Resources Management Office. Dynamac Corporation, Kennedy Space Center, Florida. 31 p.
- Schmalzer, P.A. and T.E. Foster. 2004. Multi-species scrub plant survey in Brevard County, Florida, for occurrence of Federally listed endangered or threatened scrub plant species. Interim report to Brevard County Natural Resources Management Office. Dynamac Corporation, Kennedy Space Center, Florida. 19 p.
- Schmalzer, P.A. and T.E. Foster. 2005. Flora and threatened and endangered plants of Canaveral National Seashore. Final report to National Park Service. Dynamac Corporation, Kennedy Space Center, Florida.
- Schmalzer, P.A. and T.E. Foster. 2005. Flora and threatened and endangered plants of Canaveral National Seashore. Executive summary report to National Park Service. Dynamac Corporation, Kennedy Space Center, Florida.
- Schmalzer, P.A. and T.E. Foster. 2005. Multi-species scrub plant survey in Brevard County, Florida, for occurrence of Federally listed endangered or threatened scrub plant species. Final report to Brevard County Natural Resources Management Office. Dynamac Corporation, Kennedy Space Center, Florida. 79 p.

Brooke Wheeler

College of Aeronautics
Florida Institute of Technology
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Melbourne, FL 32901-6975
bwheeler@fit.edu

440 Cinnamon Dr.
Satellite Beach, FL 32937
Home: 919-824-9356
brooke.wheeler@gmail.com

Current Position

Assistant Professor, College of Aeronautics, Florida Institute of Technology

Education

- May 2011 **Ph.D. in Ecology**
University of North Carolina at Chapel Hill
Dissertation: Species diversity of vegetation in the Carolinas: The influence and interaction of scale of observation, soil nutrients, and disturbance events.
- May 2001 **B.A. in Biology and Psychology**
Rice University, Houston, TX

Previous Position

Lecturing Fellow, Thompson Writing Program, Duke University- 2011-2015

Research Interests

Plant ecology, community ecology, conservation biology, disturbance, invasive species, sustainability, environmental science, environmental communication, teaching writing and writing to learn in STEM courses, and flipped classrooms.

Presentations and Publications

Papers and manuscripts:

- Wheeler, B.E.** *In preparation.* Gap dynamics: a resource gradient perspective.
- Wheeler, B.E., & J. Gramling.** *In preparation.* Structural equation models of plant community diversity and productivity in the southeastern US.
- Wheeler, B.E., L.A. Jacobs, T.R. Wentworth, P.S. White, & R.K. Peet.** *In preparation.* A guide to multi-scale vegetation survey methodology: matching methods with objectives.
- Wheeler, B.E., & R.K. Peet.** A multiscale analysis of plant diversity along soil nutrient gradients. *In* Vegetation structure and function at multiple spatial, temporal and conceptual scales. E.O. Box, editor. 2016. Springer.
- Wheeler, B.E., G. Cumming, & K. Taverna.** 2003. The Need for a Statewide Plan for Land and Water Conservation. CEP Environmental Policy Papers. CEP, UNC Chapel Hill, Issue 1.

Presentations:

- Palmer, A.G., & **B.E. Wheeler.** 2016, Jan. 18. RADISH: Research to Advance the Development of Integrated Space Horticulture. Buzz Aldrin Space Institute, Inaugural Workshop.

- Wheeler, B.E.** 2013. Mind full? Making Room for Mindful Learning in the Writing Center. Presented at the Southeastern Writing Center Association Conference.
- Wheeler, B.E.** 2012. Demystifying scientific writing for tutors: Research proposals to lab reports. Presented at the Southeastern Writing Center Association Conference.
- Wheeler, B.E.** 2006. Hurricane impacts along soil nutrient gradients in the Southeastern U.S.: a comparison of plant communities. Presented at the Center for Study of the American South annual conference at UNC.
- O'Connor, M., & **B. Wheeler.** 2006. Being a good graduate student. Presented in Biology 250: Essential Skills for Graduate Students.
- Wheeler, B., M. McKnight, G. Cumming, M. McKown, & D. Luther.** 2003. Rare Species Conservation in Complex Landscapes. Presented to the Curriculum in Ecology, UNC Chapel Hill as part of the Ecology Seminar Series Fall 2003.

Posters:

- Thomas R. Wentworth, Peter S. White, **Brooke E. Wheeler**, Kristin Taverna, Dane Kuppinger, Lee Anne Jacobs, Jason D. Fridley, & Robert K. Peet. 2003. Nested versus non-nested characterization of vegetation composition and species richness at multiple spatial scales. Presented at the Ecological Society of America meeting, Summer 2003.
- Harcombe, P.A., **B. Wheeler** & W. Pruess. Department of Ecology and Evolutionary Biology, Rice. 2003. Floristic survey of Big Thicket: a progress report.
- Wheeler, B.E., M.R. Hebl, L.M. Mannix, I. Valdez, J.R. Shapiro, & S.C. Lozano.** 2001. Higher Prices: the Ticket to Gender Equality in Sports? Presented at the Southwestern Psychological Association Conference, Spring 2001, in Houston, TX.

Research Experience and Training

- 2007 Research assistant for NASA grant, UNC: Productivity-Diversity modeling
- 2007, 2008 Carolina Vegetation Survey "SuperHoncho" - summers
 -Led teams of field biologists and volunteers in vegetation sampling effort
- Spring 2005 Tropical Biology an Ecological Approach, Organization for Tropical Studies
- 2001-2002 Research assistant and database manager, Dr. Harcombe, Rice University

Teaching Experience

- Fall 2016 Introduction to Aviation Environmental Science, Florida Institute of Technology
- Fall 2016 Aviation Research, Florida Institute of Technology
- Fall 2016 Airport Design, Florida Institute of Technology (UTP)
- Spring 2016 Aviation Research, Florida Institute of Technology
- Spring 2016 Quantitative Research Designs in Aviation Research
- Fall 2015 Aviation Research, Florida Institute of Technology
- Fall 2015 Human Factors Research Methods, Florida Institute of Technology (Designed course)
- Spring 2013 Environmental Justice, writing intensive seminar, Duke University
- 2012 Environmental Communication, writing intensive seminar, Duke University
- 2011 Environmental Justice, writing intensive seminar, Duke University
- 2009-2010 Tutor, Writing Center, University of North Carolina at Chapel Hill
 -Worked individually with students throughout their writing process
 including brainstorming, thesis development, organization, and revisions
 -Facilitated ESL writing groups for graduate students and postdoctoral scholars

- Winter 2009 Current Issues in Environmental Science, Elon University
-Designed course, taught lectures, led field trips, and facilitated discussions and group projects
- Fall 2008 Foundational literature in Ecology: Classical papers and their contemporary Counterparts. Instructor for graduate student seminar, UNC
-Designed course and facilitated discussions
- Spring 2008 Conservation Biology. Teaching assistant and Graduate Research Consultant, UNC
-Worked with undergraduates to develop inquiry-based group projects
-Guest lecture: Fragmentation and edges
- 2006, 2007 Basic Botany, Co-Instructor, North Carolina Botanical Garden
-Designed half of course, taught lectures, and supervised lab activities
- Fall 2006 Local Flora, Teaching assistant, UNC
-Helped plan lab activities and projects; taught labs
- Spring 2006 Anatomy and Physiology Lab, Teaching assistant, UNC
-Conducted physiology labs and anatomy recitations
- Fall 2005 Fundamentals of Ecology, Teaching assistant, UNC
-Wrote course synopsis, and pitched course to the Biology Department
-Co-designed lab, taught labs, and led fieldtrips
- 2003-2004 Ecology and Population Biology, Teaching assistant, UNC
-Led recitations and field trips
- Spring 2003 Rare species conservation in complex landscapes, UNC
-Created and designed a graduate seminar with fellow graduate students
-Self-taught course to facilitate interdisciplinary dialogue
- 2000-2001 Biology and psychology tutor, Sid Richardson College Fellow at Rice University
-Helped undergraduates one-on-one in challenging courses

Program Administration

- 2012-2013 Associate Director of the Writing Studio, Duke University
-Coordinate the Undergraduate Writing Tutor program, oversee the graduate student tutors, design tutor training and professional development for graduates and undergraduates, and mentor tutors
- 2011-2013 Course Goals and Practices committee
-Research peer institutions, revision of programmatic course goals
- 2011- 2012 Assistant Director of the Writing Studio, Duke University
-Coordinate the Undergraduate Writing Tutor program and tutor training

Other Professional Experience

- 2015 Non-degree professional development coursework at FIT:
AVT1111- 141 PPL Ground School at FIT Aviation 2015
AVT5000 Airspace Safety
AVM5000 Planning and Design Fundamentals
- 2011-2013 Forum for Teaching Science-Based First Year Writing, Duke University
- 2009 UNC Writing Center training in the writing process and tutoring writing
- Summer 2009 Nature Writing Course

Departmental Service

International Journal of Aviation Science, Copy Editor, Florida Institute of Technology: 2015-2016
Steering Committee, Thompson Writing Program, Duke: 2012-2013
Course Description Committee, Thompson Writing Program, Duke: 2011-2013
Ecology Representative to the Biology Graduate Student Association, UNC: Fall 2003-Fall 2004
Ecology Curriculum Seminar Series committee, UNC: Fall 2003-Spring 2004
Faculty Search committee member (joint Biology/Ecology search), UNC: Fall 2003- Spring 2004

Fellowships and Funding

W.C. Coker Fellowship in Botany: Spring 2009
A.H. Beers Fellowship, UNC Biology Department: Summers 2005, 2006, 2008
Southern Research Circle grant: Summer 2005
Graduate Student Opportunity Fund research grant: Fall 2004
UNC Graduate School First year fellowship: Fall 2002-Spring 2003
President's Honor Roll at Rice: Spring 2000, Fall 1999, Fall 1998
Sid Richardson College Fellow at Rice: Spring 2000- Spring 2001

Affiliations

Ecological Society of America

Other relevant skills

Programs: Microsoft Office, Prezi, S Plus and R, Biota, Adobe Photo Shop, Lisrel, MPlus, some AMOS, some GIS, Qualtrics
Languages: Spanish- through college 300 level, Latin- 4 years