

Joel M. Gramling, MA Ed., PhD.

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Education

- 2001-2006 PhD in Biology with a focus on Plant Ecology
University of North Carolina at Chapel Hill
Major Advisor: Dr. Robert K. Peet
- 2000-2001 Master of Arts in Education in Biology
The Citadel, Charleston, SC
- 1994-1998 Bachelor of Science in Biology
Bachelor of Science in Anthropology
College of Charleston, Charleston, SC

Appointments

- 2021 – Present Director of General Education, The Citadel
- 2018 – Present Professor, Department of Biology, The Citadel
- 2007 – Present Curator of The Citadel Herbarium (CITA)
- 2016 – 2018 Interim Department Head of Biology, The Citadel
- 2012 – 2018 Associate Professor, Department of Biology, The Citadel
- 2011 – 2015 Visiting Scholar, Department of Biology, UNC-CH
- 2006 – 2012 Assistant Professor, Department of Biology, The Citadel
- 2006 – 2008 Visiting Scholar, Curriculum in Ecology, UNC-CH

Major Awards

- 2013 – 2014 Sabbatical Award for one full year – The Citadel
Deferred until Spring 2014 at the request of the Provost
- 2013 Award for Faculty Excellence in Scholarship and Teaching –
The Citadel

Teaching Overview

A. Courses Taught

Course Number – Title (Semesters taught) * = Newly Developed Course

Undergraduate, The Citadel

- BIOL 102 – General Biology II (S07, Su07, S08, S09, S10, Su11)
- BIOL 111 – General Biology Lab I (F07, F15, F16)
- BIOL 112 – General Biology Lab II (S07, Su07, S09, Su11)
- BIOL 131 – Intro to Biology Lab I (F16)
- BIOL 140 – Intro to Biology II (S11)
- BIOL 141 – Intro to Biology Lab II (S11)
- BIOL 203* – Intro to Plant Biology (F16)
- BIOL 208* – Evolution (F07, F10, F12, S13, S15, F17, F18, F19, F20, F21)
- BIOL 292* – Leadership in Environmental Sustainability (F19)
- BIOL 314* – Vascular Flora of SC (S08, S10, Su11, S13, S16, S21)
- BIOL 320/321* – Independent Research (S08, S09, F09, S10, F10, S12, Su12, S14, S15, S16, F17, S18, F18, S19, F19, S20, F20, S21)
- BIOL 322* – History of Biology (F08, F11,
- BIOL 330 – Methods and Applications of Science (F13, F16)
- HONR 400* – Honors Research Project (F13)
- BIOL 406* – Ecology (S12, Su13, S20)
- BIOL 411 – Senior Seminar (F19)
- BIOL 412* – Corporate Ecological Sustainability (S15)
- BIOL 412* – General Botany (F15, F17)
- BIOL 419* – Economic Botany (F06, F09, F13, F15, F18, F20)
- NTSS 305* – Forest, Fish and Fowl: Natural Resource Management (F21)

Graduate, The Citadel

- BIOL 514* – Vascular Flora of SC (S10, S13, S19)
- BIOL 519* – Economic Botany (F06, F09, F13, F18)
- BIOL 601* – Evolution of Animals (F07, F10, S12, F12, S15, S17, F20)
- BIOL 602* – Survey of the Plant Kingdom (F08, F11)
- BIOL 609* – Seminar in Environmental Studies (Su08, Su12, Su15, Su19)
- BIOL 611* – Graduate Research (S08, S09, S10, F10, S11, Su11, F11, Su12, F12, Su13, S14, S15, S16, F19, S20, F20)

B. Mentorships

Cadets, The Citadel

- Michael Bollick
- Heather Chandler
- Ray Kesler
- Holly Maslowski
- Brian Burnley
- David Lake
- Delta Nunez-Rojas
- Elliot Dillihay
- Jasmine McLamb
- David Spooner
- Alex Pigott
- Judson Riser
- Cody Ahl
- William Gould
- Zach Brownlee
- Andrew Hancox
- Jason Freeland
- Daniel Hyun
- Johnathan Overcash*
- Erik Usher
- Rosie Eggers
- Jordan Abrams
- Zack Musallam
- Andrew Mai
- Lauren Pringle
- Brian Owens*
- Daniel Castillo*
- Lucas Moran
- Daniel Burkhalter
- Tristan Arrowood
- Riley Barnett
- Michael Murphy
- Michael Akers
- William Shugart
- Michael Curtis
- Logan Johnson
- Jacob Knapp

- Katie Linder

Graduate Students, The Citadel

- Samantha Suiter
- Stacy Turner
- Justin Pye
- John Badila
- Lane Egnew
- Kristie Burr
- Cody Clark
- Mike Frees
- Brian Reid
- Katie Story
- Sarah Diaz
- William Oakley
- Jesse Grant
- W. Seth Davis
- Autumn Vaughn
- Paula McCarthy
- Brooke Everly
- Nathan Platt
- Celie Dailey*
- Claudia Sams

Graduate Students, The College of Charleston

- Sarah Cech
- Ryan Bollinger
- Brett Taysom
- Anne Cubeta*
- Jen Jones
- Matt McCalley
- Sarah Latshaw
- Ryan Wenzel
- Kelley Grant Purvis*
- Melissa Strickland
- Lauren Senn

* indicates a co-author on a peer-reviewed publication.

Publications

A. Peer-Reviewed Publications

- Gustafson, D.J., R.D. Porcher Jr., **J.M. Gramling**, S. Eckert and B. Owens. 2021. Long-term demography study of *Trillium pusillum* var. *pusillum* following Hurricane Hugo in 1989. *Castanea*: Vol 86 (1), 53-60.
- Gramling, J.M.**, D.J. Castillo, J.M. Overcash, Patrick D. McMillan, and R.D. Porcher, Jr. 2018. Noteworthy Collections – South Carolina. *Castanea* Vol. 83 (1), 122-123.
- Gustafson, D.J., S.E. Woodyard, J. Marquez, W.D. Rhoad, J. Glitzenstein and **J.M. Gramling**. 2017. Greenhouse propagation of the endangered hemiparasite *Schwalbea americana* (American Chaffseed): experimentation and botanical observations. *Native Plants Journal*: Vol 18 (1), 50-59.
- Purvis, K.G., **J.M. Gramling**, and C.J. Murren. 2015. Assessment of Beach Access Paths on Dune Vegetation: Diversity, Abundance and Cover. *Journal of Coastal Research*: Vol 31 (5), 1222-1228.
- Beckley, A.C. and **J.M. Gramling**. 2013. Description and classification of *Lindera melissifolia* habitat in the Southeastern Coastal Plain. *Castanea*: December 2013, Vol. 78 (4): 277-289.
- De Steven, D. and **J.M. Gramling**. 2013. Multiple factors influence the vegetation composition of Southeast U.S. wetlands restored by the Wetlands Reserve Program. *The Journal of the Torrey Botanical Society*: Vol. 140 (4): 453-464.
- De Steven, D. and **J.M. Gramling**. 2012. Diverse Characteristics of Wetlands Restored under the Wetlands Reserve Program in the Southeastern United States. *Wetlands* Vol. 32: 593-604.
- Gramling, J.M. Potential Effects of Laurel Wilt on the Flora of North America. 2010. *Southeastern Naturalist* Vol. 9(4): 827-836.
- Gramling, J.M. Noteworthy Collections – South Carolina. 2010. *Castanea* Vol. 75(2): 274-275.
- Drake, J.M., E.E. Cleland, C. Bowles, K.M. Carney, M.C. Horner-Devine, S.M. Emery, **J.M. Gramling**, A. Nardoni-Laws, M.D. Smith, D.B. Vandermast, E. Fleishman, J.B. Grace, and D. Tilman. 2008. Do non-native plant species affect the shape of productivity-diversity relationships? *American Midland Naturalist* Vol. 159 (2):55-66.

Cleland, E. E., M.D. Smith, S.J. Andelman, C. Bowles, K.M. Carney, M.C. Horner-Devine, J.M. Drake, S.M. Emory, **J.M. Gramling**, and D.B. Vandermast. 2004. Invasion in space and time: non-native species richness and relative abundance respond to interannual variation in productivity and diversity. *Ecology Letters* 7:947-957.

Marko, P.B., S.C. Lee, A.M. Rice, **J.M. Gramling**, T.M. Fitzhenry, J.S. McAlister, G.R. Harper and A.L. Moran. 2004. Mislabeled of a depleted reef fish. *Nature* 430:310.

Peet, R.K., J.D. Fridley and **J.M. Gramling**. 2003. Variation in species richness and species pool size across a pH gradient in forests of the southern Blue Ridge Mountains. *Folia Geobotanica* 38:391-401.

B. Publications Currently in Review

Dailey, Cecelia, **J.M. Gramling**, and R.D. Porcher, Jr. 2021. Noteworthy Collections – South Carolina. Submitted. *Castanea* Vol. xx (x): xx-xx. Accepted with minor revisions

C. Other Publications (Book Reviews and Non-Refereed Journals)

Gramling, J.M. 2021. Book Review – Wild about Weeds: Garden Design with Rebel Plants. *Native Plants Journal*: Vol 22 (1), 103.

Gramling, J.M. 2018. Book Review - Essential Native Trees and Shrubs for the Eastern United States: The Guide to Creating a Sustainable Landscape. *Native Plants Journal*: Vol 19 (1), 55.

Gramling, J.M. 2017. Book Review - Native Plants of the Southeast: A Comprehensive Guide to the Best 460 Species for the Garden. *Native Plants Journal*: Vol 18 (1), 86.

Gramling, J.M. Laurel Wilt, a Growing Disease Problem in Bays and Other Woody Species. 2011. *The Journal of the South Carolina Native Plant Society* Spring 2011: 5-7.

Gramling, J.M. Epiphytic Plants of South Carolina. 2010. *The Journal of the South Carolina Native Plant Society* Summer 2010: 10-12.

D. Technical Reports

Gramling, J.M. 2020-2021 Annual Report of Faircloth Property Research Activities and Outcomes. Submitted by the Department of Biology, The Citadel to The Citadel Foundation; July 2021.

- Gramling, J.M., *Lindera melissifolia* (Pondberry) Monitoring 2019-2020 at Marine Corps Air Station Beaufort, South Carolina. Final Report. Submitted to MCAS Beaufort; Department of Navy and US Fish and Wildlife Service. Sep 2020.
- Gramling, J.M. 2019-2020 Annual Report of Faircloth Property Research Activities and Outcomes. Submitted by the Department of Biology, The Citadel to The Citadel Foundation; June 2020.
- Gramling, J.M., *Lindera melissifolia* (Pondberry) Monitoring 2018-2019 at Marine Corps Air Station Beaufort, South Carolina. Final Report. Submitted to MCAS Beaufort; Department of Navy and US Fish and Wildlife Service. Aug 2019.
- Gramling, J.M. 2018-2019 Annual Report of Faircloth Property Research Activities and Outcomes. Submitted by the Department of Biology, The Citadel to The Citadel Foundation; June 2019.
- Gramling, J.M., *Lindera melissifolia* (Pondberry) Monitoring 2017-2018 at Marine Corps Air Station Beaufort, South Carolina. Final Report. Submitted to MCAS Beaufort; Department of Navy and US Fish and Wildlife Service. July 2018.
- Gramling, J.M. 2017-2018 Annual Report of Faircloth Property Research Activities and Outcomes. Submitted by the Department of Biology, The Citadel to The Citadel Foundation; July 2018.
- Gramling, J.M., *Lindera melissifolia* (Pondberry) Monitoring 2016-2017 at Marine Corps Air Station Beaufort, South Carolina. Final Report. Submitted to MCAS Beaufort; Department of Navy and US Fish and Wildlife Service. August 2017.
- Gramling, J.M. 2016-2017 Annual Report of Faircloth Property Research Activities and Outcomes. Submitted by the Department of Biology, The Citadel to The Citadel Foundation; May 2017.
- Gramling, J.M.** and J.M. Overcash, *Lindera melissifolia* (Pondberry) Monitoring 2015-2016 at Marine Corps Air Station Beaufort, South Carolina. Final Report. Submitted to MCAS Beaufort; Department of Navy and US Fish and Wildlife Service. October 2016.
- Gramling, J.M. 2015-2016 Annual Report of Faircloth Property Research Activities and Outcomes. Submitted by the Department of Biology, The Citadel to The Citadel Foundation; May 2016.
- Gramling, J.M., *Lindera melissifolia* (Pondberry) Monitoring 2014-2015 at Marine Corps Air Station Beaufort, South Carolina. Final Report. Submitted to MCAS Beaufort; Department of Navy and US Fish and Wildlife Service. September 2015.

Gramling, J.M. 2014-2015 Annual Report of Faircloth Property Research Activities and Outcomes. Submitted by the Department of Biology, The Citadel to The Citadel Foundation; May 2015.

Gramling J.M. Fairlawn Tract B-1 Baseline Report-December 2014. This study was commissioned by The Nature Conservancy as a part of the Boeing Expansion Program Mitigation Plan. Submitted to The Nature Conservancy in December 2014.

Gramling J.M. Fairlawn Tract B-2a Baseline Report-December 2014. This study was commissioned by The Nature Conservancy as a part of the Boeing Expansion Program Mitigation Plan. Submitted to The Nature Conservancy in December 2014.

Gramling J.M. Keystone Tract Baseline Report-December 2014. This study was commissioned by The Lowcountry Open Land Trust as a part of the Boeing Expansion Program Mitigation Plan. Submitted to The Lowcountry Open Land Trust in December 2014.

Gramling, J.M., and K. Burr. *Lindera melissifolia* (Pondberry) Monitoring 2013-2014 at Marine Corps Air Station Beaufort, South Carolina. Final Report. Submitted to MCAS Beaufort; Department of Navy and US Fish and Wildlife Service. August 2014.

Gramling, J.M. 2013-2014 Annual Report of Faircloth Property Research Activities and Outcomes. Submitted by the Department of Biology, The Citadel to The Citadel Foundation; May 2014.

Gramling, J.M., and K. Burr. *Lindera melissifolia* (Pondberry) Monitoring 2012-2013 at Marine Corps Air Station Beaufort, South Carolina. Final Report. Submitted to MCAS Beaufort; Department of Navy and US Fish and Wildlife Service. December 2013.

Gramling J.M. *Final Report for Washo Reserve Cypress Study*. Submitted to The Nature Conservancy. December 2013.

Gramling J.M. *A vegetation survey of Kiawah Island*. Final report. Submitted to the Town of Kiawah Island. December 2012.

Gramling J.M. *Wambaw tract biological survey*. Final report. Submitted to The Nature Conservancy. December 2012.

Gramling, J.M., K. Burr, AC. Beckley and D.J. Gustafson. *Lindera melissifolia* (Pondberry) Monitoring 2011-2012 at Marine Corps Air Station Beaufort, South Carolina. 2012. Final Report. Submitted to MCAS Beaufort; Department of Navy June 2012.

- De Steven, D. and **Gramling, J.M.** *Assessing Wetland Restoration Practices on Southern Agricultural Lands: The Wetlands Reserve Program in the Southeastern Coastal Plain*. 2011. Final report to the U.S. Department of Agriculture National Resources Conservation Service, CEAP- Wetlands.
- Gramling, J.M. *Status of Wetland Restoration Projects on South Carolina Agricultural Lands*. 2011. Final Report. USDA-Forest Service Project 10-JV-11330127-006.
- Gramling, J.M.** and A.E. Gramling. 2010. *A survey of Litsea aestivalis (Pondspice) in the Francis Marion National Forest*. Final Report. USDA-Forest Service. Project AG-4670-C-10-0035.
- Gramling, J.M. *A Survey of Noisette Creek Preserve in North Charleston, South Carolina*. 2008. Submitted to The Michaux Conservancy in North Charleston, SC in June 2008.
- Gramling, J.M. *A Survey of Lighthouse Inlet Heritage Preserve*. 2007. Submitted to the South Carolina Department of Natural Resources, Heritage Trust Program in October 2007.
- Gramling, J.M. 2003. *Pond cypress savannas of the Francis Marion National Forest, SC*. Delivered to the USDA Forest Service as a report with GIS mapping products.
- Gramling, J.M. 2001. *A floristic inventory of Yeamans Hall Plantation, Hanahan, SC*.

Presented Research

A. Presentations – National Conferences and Meetings

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|--------------|---|
| October 2018 | “Greenhouse propagation of the endangered hemiparasite <i>Schwalbea americana</i> (American Chaffseed): experimentation and botanical studies” was presented at the 12th Biennial Longleaf Conference in Alexandria, LA on October 24, 2017 by co-author Dr. Danny Gustafson. |
| April 2017 | “Phenotypic Change in Sweetgrass(<i>Muhlenbergia</i> sp.) as a Result of Soil composition” was presented at the National Conference on Undergraduate Research (NCUR) in Memphis, TN on April 7, 2017 by cadet co-author Daniel Castillo. |
| August 2013 | “Assessment of Beach Access Paths on Dune Vegetation” was presented at the Ecological Society of America’s 98th Annual |

Meeting in Minneapolis, Minnesota by graduate student Kelly Grant Purvis.

- June 2013 “Variation in vegetation composition of wetlands restored by the Wetlands Reserve Program in the Southeastern United States” was presented at the **Society of Wetland Scientists’** Annual Meeting in Duluth, Minnesota by collaborator Diane De Steven.
- August 2011 “Diverse Wetland Restoration Approaches under Working-Lands Programs in the Southeastern U.S.: Implications for Ecosystem Services” was presented at the **Ecological Society of America’s** 96th Annual Meeting in Austin, Texas by collaborator Diane De Steven.
- August 2011 “A habitat characterization and suitability model for the endangered wetland plant *Lindera melissifolia* in the Southeastern Coastal Plain” was presented at the **Ecological Society of America’s** 96th Annual Meeting in Austin, Texas by graduate student Anne Cubeta.
- July 2011 “Diverse Applications of Wetland Restoration Practices in the Southeastern U.S. and the Implications for Ecosystem Services” was presented at the **Soil and Water Conservation Society’s** 66th International Annual Conference in Washington, DC by collaborator Diane De Steven.
- August 2009 Presented “Predictions and early observations on the impact of Laurel Wilt Disease on the Flora of North America” at the **Ecological Society of America’s** 94th Annual Meeting in Albuquerque, New Mexico.
- August 2008 Presented “A biogeographical analysis of South Carolina’s hammock islands and its conservation implications” at the **Ecological Society of America’s** 93rd Annual Meeting in Milwaukee, Wisconsin.
- August 2005 Presented on “Constructing localized species pools to test dispersal limitation in woody plants of the Southeastern United States” at the **Ecological Society of America’s** 90th Annual Meeting, Montreal, Quebec, Canada.
- August 2003 Presented on “Species richness and species pool size variation across pH gradients in Southern Blue Ridge forests” at the **Ecological Society of America’s** 88th Annual Meeting, Savannah, GA

B. Presentations – Regional Conferences and Meetings

- November 2019 “Long-term demography study of *Trillium pusillum* var. *pusillum* following the Hurricane Hugo in 1989.” was presented at the 4th Annual **SoCon Undergraduate Research Forum (SURF)** at Wofford College in Spartanburg, SC on November 2, 2019 by cadet co-author Sam Eckert.
- April 2018 “28-year demographic study of *Trillium pusillum* var. *pusillum*.” was presented at the 79th Annual Meeting of the **Association of Southeastern Biologists** in Myrtle Beach, SC by cadet co-author Brian Owens.
- October 2016 “Phenotypic change in *Muhlenbergia capillaris* as a result of soil composition” was presented at the **SoCon Undergraduate Research Forum (SURF)** at Wofford College in Spartanburg, SC on October 28, 2016 by cadet co-authors Jordan Abrams and Daniel Castillo.
- July 2016 “A Lowcountry Botanical Potpourri” was co-presented with Dr. Richard Porcher Jr. as the Plenary Lecture for the **33rd Annual Cullowhee Native Plants Conference** in Cullowhee, NC on July, 21, 2016.
- April 2015 “Wetland Assessment of a Blackwater Swamp along the Black River, Georgetown County, South Carolina” was presented at the 76th Annual Meeting of the **Association of Southeastern Biologists** in Chattanooga, TN by cadet co-authors Johnathan Overcash and Erik Usher in April 2015.
- April 2014 “The short term effects of Laurel Wilt on Southeastern coastal plant species.” was presented at the 75th Annual Meeting of the **Association of Southeastern Biologists** in Spartanburg, SC by cadet co-author Zach J. Brownlee in April 2014.
- April 2012 “Conservation Effects of Wetland Restoration Practices in the Southeastern Wetlands Reserve Program” was presented at the **Association of Southeastern Biologists’ 73rd Annual Meeting** in Athens, Georgia by collaborator Diane De Steven.
- April 2012 “Using species distribution modeling to develop a restoration framework for *Lindera melissifolia* in the Southeastern Coastal Plain” was presented at the **Association of Southeastern Biologists’ 73rd Annual Meeting** in Athens, Georgia by graduate student Anne Cubeta.

February 2009 Presented on the “Effects of Laurel Wilt Disease on Plant Communities” at the USDA-Forest Service sponsored 2009 **Laurel Wilt Conference** in Savannah, GA.

C. Presentations – Local Conferences and Meetings

May 2017 Presented “Plant Ecology in the Lowcountry: From Discovery to Recovery” as the Keynote Speaker at the **2017 Bulls Bay Nature Festival** in Awendaw, SC on May 20, 2017.

March 2017 “Phenotypic change in *Muhlenbergia capillaris* as a Result of Soil Concentration” was presented at **The Citadel Academy of Science and Mathematics (CASM)** Banquet in Charleston SC on March 16, 2017 by cadet co-author Jordan Abrams.

March 2016 “Phenotypic change in Sweetgrass (*Muhlenbergia spp.*) as a Result of Soil Concentration” was presented at **The Citadel Academy of Science and Mathematics (CASM)** Banquet in Charleston SC on March 17, 2016 by cadet co-author Jordan Abrams.

March 2016 “What is CITA?” was presented at **The Citadel Academy of Science and Mathematics (CASM)** Banquet in Charleston SC on March 17, 2016 by cadet co-author Zack Musallam.

June 2015 Co-presented “A Lowcountry Botanical Potpourri” with Dr. Richard Porcher Jr. as the **Keynote address for the SC Native Plant Society Annual Symposium** in Charleston, SC on June 13, 2015.

March 2014 “Wetland Assessment: An Ecological Analysis of the Faircloth Property on the Black River” was presented at the **Citadel Student Research Conference** by Cadets Erik Usher and Johnathan Overcash and won 1st place for the best undergraduate research poster.

October 2012 “Cypress regeneration at Washo Reserve” was presented to the **Washo Working Group**: a cooperative partnership of SC- Department of Natural Resources, The Nature Conservancy, US Fish and Wildlife Service and Ducks Unlimited on October 30th 2012.

D. Invited Presentations, Meetings, and Workshops

- May 2019 Co-led “Carolina Bay/Wildflower Walk” with Dr. Richard Porcher Jr. at the **Bulls Bay Nature Festival** in Awendaw, SC on May 18, 2019.
- September 2018 “Rediscovering the Lowcountry Landscape in the Footsteps of Our Forebears” was co-presented with Dr. Richard Porcher Jr. at the **2018 Native Plant Forum** at Magnolia Plantation and Gardens in Charleston, SC on September 22, 2018.
- August 2018 “Rediscovering the Lowcountry Landscape in the Footsteps of Our Forebears” was presented by co-author Dr. Richard Porcher Jr. for the **Coastal Master Naturalists Association** at Johns Island Regional Library in Charleston, SC on August 30, 2018.
- April 2018 Presented “Rediscovering the Lowcountry Landscape” with Dr. Richard Porcher Jr. at the **Native Plant Festival** hosted by Old Santee Canal Park in Moncks Corner, SC on April 7, 2018.
- May 2017 Co-led “Carolina Bay/Wildflower Walk” with Dr. Richard Porcher Jr. at the **Bulls Bay Nature Festival** in Awendaw, SC on May 20, 2017.
- April - June 2016 Presented a workshop titled “Schoolyard Ecology” as a contributor to the STEM Ambassadors Program on April 16, 2016 and then conducted a follow-up activity with the participants on June 10th. This was part of an outreach program for Lowcountry teachers that was coordinated by The Citadel’s STEM Center, the School of Education and the School of Science and Mathematics.
- May 2016 Co-led “Carolina Bay/Wildflower Walk” with Dr. Richard Porcher Jr. at the **Bulls Bay Nature Festival** in Awendaw, SC on May 19, 2016.
- April 2016 Lecture for the Charleston Natural History Society/Audubon Society– I gave a lecture titled “*Plant Ecology in the Lowcountry: From Discovery to Recovery*” on April 13, 2016.
- September 2015 Led a workshop titled “Basic Botany” for Clemson Extension at Caw Caw Interpretive Center in Ravenel, SC on September 1, 2015.
- May - June 2015 Presented a workshop titled “Schoolyard Ecology” as a contributor to the STEM Ambassadors Program on May 2, 2015 and then conducted a follow-up activity with the participants on June 19th. This was part of an outreach program for Lowcountry teachers that

was coordinated by The Citadel's STEM Center, the School of Education and the School of Science and Mathematics.

- June 2015 Co-led "Bonneau Ferry Walk" with Dr. Richard Porcher Jr. for the **SC Native Plant Society Annual Symposium** in Charleston, SC on June 14, 2015.
- May 2015 Co-led "Carolina Bay/Wildflower Walk" with Dr. Richard Porcher Jr. at the **Bulls Bay Nature Festival** in Awendaw, SC on May 16, 2015.
- February 2015 Presented a workshop titled "Constructing a home herbarium" to the Lowcountry Chapter of the **SC Native Plant Society** on February 21, 2015.
- February 2015 Presented "How to make plants last forever... or at least 100 years" to the Lowcountry Chapter of the **SC Native Plant Society** on February 17, 2015.
- May 2014 Co-led "Carolina Bay/Wildflower Walk" with Dr. Richard Porcher Jr. at the **Bulls Bay Nature Festival** in Awendaw, SC on May 17, 2014.
- January 2014 Presented "Increasing Scientific Literacy" for a Teacher's Workshop at The Citadel in Charleston, SC as a part of **The Morris Island Lighthouse & Lowcountry Ecosystem Institute**.
- August 2013 Developed and taught the Science component of the **The Morris Island Lighthouse & Lowcountry Ecosystem Institute's** week long Teacher's Workshop at The Citadel in Charleston, SC.
- December 2012 Presented "The Tallow Tree Problem on Kiawah Island" to the **Kiawah Island Town Council**.
- September 2012 Presented "The Tallow Tree Problem on Kiawah Island" to the **Kiawah Island Natural Habitat Conservancy** Board of Directors.
- August 2012 Developed and taught the Science component of the **The Morris Island Lighthouse & Lowcountry Ecosystem Institute's** week long Teacher's Workshop at The Citadel in Charleston, SC.
- June 2012 Designed and implemented two week-long "Island Invaders" **Improving Teacher Quality (ITQ) workshops** at The Citadel in Charleston, SC. Teachers from across the region were brought in for a week-long research activity to expose them to research

technologies and methodologies as a model for conducting project-based learning activities in their classrooms.

- March 2012 Presented “Vegetation Survey of Kiawah Island”, to Kiawah Town Council at Kiawah Town Hall on Kiawah Island, SC.
- October 2011 Presented “Lessons from the Teacher-Scholar Model” for a Teacher’s Workshop at The Citadel in Charleston, SC as a part of the Morris Island Institute.
- October 2011 Presented “Invasive Plants on Kiawah Island”, at Kiawah Town Hall in Kiawah Island, SC.
- October 2011 Designed and led a Teacher’s Workshop module on “Climate Change Data and Data Analysis” at The Citadel in Charleston, SC as a part of the **The Morris Island Lighthouse & Lowcountry Ecosystem Institute**.
- August 2011 Developed and taught the Science component of the **The Morris Island Lighthouse & Lowcountry Ecosystem Institute**’s week long Teacher’s Workshop at The Citadel in Charleston, SC.
- July 2011 Presented at The STEM Center of Excellence at The Citadel’s STEM Innovation Institute for K-12 Teachers on “Conservation Ecology in the Lowcountry of SC: Aliens, sea level rise and other threats”.
- June 2011 Developed and taught a lesson for a one-day Teacher’s Workshop for the **Morris Island Institute**’s at Caw Caw Interpretive Center in Ravenel, SC demonstrating the use of forestry methods as a way of introducing various biological and mathematical concepts to middle and high school students.
- November 2010 Developed and taught a lesson for a one-day Teacher’s Workshop for the **Morris Island Institute**’s at The Citadel in Charleston, SC focusing on the use of online data sources and using such data to demonstrate scientific concepts and principles to middle and high school students.
- October 2010 Developed and taught a lesson for a one-day Teacher’s Workshop for the **Morris Island Institute**’s at The Citadel in Charleston, SC focusing on the use of real student research problems to demonstrate ways of combining Math and Science content for middle and high school students.

- August 2010 Developed and taught the Science component of the **The Morris Island Lighthouse & Lowcountry Ecosystem Institute**'s week long Teacher's Workshop at The Citadel in Charleston, SC.
- May 2010 Presented a workshop entitled "Creating a Personal Herbarium" at the 12th Annual Symposium of the **South Carolina Native Plant Society** in Charleston, SC.
- January 2010 Presented on "Darwin and the Development of Evolutionary Theory" at the **Lowcountry Senior Center** in Charleston, SC.
- December 2009 Presented on "Darwin and the Development of Evolutionary Theory" at the **Center for Creative Retirement** in Charleston, SC.
- May 2009 Assisted the **Southeast Exotic Pest Plant Council**'s 11th Annual Conference in Georgetown, SC by co-leading a field trip to the Francis Marion National Forest to look at the effects of non-native plant species and their removal on the native flora.
- February - May 2009 Co-leader of the "**Gardening with Natives**" workshop at Mepkin Abbey, Moncks Corner, South Carolina.
- January 2009 Presented a lecture for the **SC Native Plant Society**'s monthly meeting entitled "*Don't* pick your poison: poisonous plants of South Carolina"

Grants

A. External Research Grants

- 2020-2021 \$10,925 United States Department of the Navy
- Pondberry Mapping and Monitoring: Marine Corps Air Station Beaufort, SC – Year 5
 - Cooperative Agreement N62470-16-2-9010 (Renewed)
 - PI
- 2019-2020 \$10,925 United States Department of the Navy
- Pondberry Mapping and Monitoring: Marine Corps Air Station Beaufort, SC – Year 4
 - Cooperative Agreement N62470-16-2-9010 (Renewed)
 - PI
- 2018-2019 \$10,925 United States Department of the Navy

- Pondberry Mapping and Monitoring: Marine Corps Air Station Beaufort, SC – Year 3
 - Cooperative Agreement N62470-16-2-9010 (Renewed)
 - PI
- 2017-2018 \$10,925 United States Department of the Navy
- Pondberry Mapping and Monitoring: Marine Corps Air Station Beaufort, SC – Year 2
 - Cooperative Agreement N62470-16-2-9010 (Renewed)
 - PI
- 2016-2017 \$10,925 United States Department of the Navy
- Pondberry Mapping and Monitoring: Marine Corps Air Station Beaufort, SC
 - Cooperative Agreement N62470-16-2-9010
 - PI
- 2016-2017 \$4,718 South Carolina Sea Grant Consortium
- Does Soil Composition Significantly Influence Sweetgrass (*Muhlenbergia* spp.) Phenotypes
 - Support for Undergraduate Student Research
 - Faculty Sponsor
- 2015-2016 \$14,382 United States Department of the Navy - Subcontract
- Monitor and Maintain *Lindera melissifolia*: determination and findings at the MCAS Beaufort
 - Rare plant survey conducted by cadets
 - PI
- 2014-2015 \$9,488 United States Department of the Navy - Subcontract
- Monitor and Maintain *Lindera melissifolia*: determination and findings at the MCAS Beaufort
 - PI
- 2013-2014 \$500 South Carolina Native Plant Society Community Grant
- Funding to assimilate a donated herbarium collection from the College of Charleston into The Citadel Herbarium
 - PI
- 2013-2014 \$8,679 United States Department of the Navy
- Monitor and Maintain *Lindera melissifolia*: determination and findings at the MCAS Beaufort
 - PI

- 2012-2013 \$7,944 United States Fish and Wildlife / United States Department of the Navy
- Monitor and Maintain *Lindera melissifolia*: determination and findings at the MCAS Beaufort
 - PI
- 2011-2012 \$7,944 United States Department of the Navy
- Monitor and Maintain *Lindera melissifolia*: determination and findings at the MCAS Beaufort
 - PI
- 2011-2012 \$7,140 NASA (South Carolina Space Grant Consortium)
- The Effects of Sea Level Rise on the Productivity of Hammock Islands in South Carolina
 - PI
- 2009-2010 \$23,171 USDA Forest Service
- Status of Wetland Restoration Projects
 - PI – Cost-share Agreement
- 2009-2010 \$34,000 USDA Forest Service
- Monitoring the effects of Laurel Wilt Disease on plant communities in the Carolinas
 - PI
- 2008-2009 \$26,000 South Carolina Forestry Commission Sub Award
- Investigating the effects of Laurel Wilt Disease on the plant communities of South Carolina
 - PI – Sub Award
- 2008-2009 \$11,151 United States Department of the Navy
- Studying the effects of Laurel Wilt Disease at MCAS Beaufort and conducting a floristic survey across the site
- 2007-2008 \$500 South Carolina Native Plant Society Community Grant
- Funding to enhance the collections of The Citadel Herbarium
 - PI
- 2004-2006 \$24,000 (annually) NASA Earth System Science Graduate Fellowship
- Funding for graduate research linking local plant community observations to remotely-sensed data in a GIS
- 2004 \$4,000 Alma Holland Beers Scholarship/Coker Fellowship
- Summer research on species pool effects on local diversity

- 2003 \$4,000 Alma Holland Beers Scholarship/Coker Fellowship
- Summer research on pond cypress savannas
- 2002-2003 \$18,000 USDA-Forest Service challenge cost-share grant
- Funding for the study of pond cypress communities of the Francis Marion National Forest, South Carolina
- 2002 \$3,500 Alma Holland Beers Scholarship/Coker Fellowship
- Summer research on pond cypress savannas

B. External Education Grants

- 2018-2019 \$40,000 Samuel Freeman Charitable Trust
- Enhancing Biology Education through Instrumentation
- 2013-2018 \$1,199,639 National Science Foundation – Robert T. Noyce Teacher Scholarship Program
- Recruit, Educate, Certify and Obtain New Teachers (RECON)
 - Senior Personnel (2013-2016), Co-PI (2016-2018)
- 2013-2014 \$90,000.00 Commission on Higher Education - ITQ Grant
- Developing Highly Qualified Science and Mathematics Teachers Through Project-Based Learning, Year 4
 - Co-PI
- 2012-2013 \$76,000.00 Commission on Higher Education - ITQ Grant
- Developing Highly Qualified Science and Mathematics Teachers Through Project-Based Learning, Year 3
 - Co-PI
- 2011-2012 \$52,160.00 Commission on Higher Education - ITQ Supplemental Grant
- Continuing Support for Science & Math Educators through Citizen Science activities
 - Co-PI
- 2011-2012 \$76,000.00 Commission on Higher Education - ITQ Grant
- Developing Highly Qualified Science and Mathematics Teachers Through Project-Based Learning, Year 2
 - Co-PI
- 2010-2011 \$95,000.00 Commission on Higher Education - ITQ Grant
- Developing Highly Qualified Science and Mathematics Teachers Through Project-Based Learning

- Co-PI

C. Citadel Foundation Research Grants

- | | |
|-----------|--|
| 2020-2021 | <p>\$3,000 Citadel Foundation Faculty Research Grant</p> <ul style="list-style-type: none"> • Supporting a rare plant species on private conservation lands • PI |
| 2019-2020 | <p>\$3,000 Citadel Foundation Faculty Research Grant</p> <ul style="list-style-type: none"> • How rare is the Riverbank Evening Primrose in South Carolina? • PI |
| 2016-2017 | <p>\$3,000 Citadel Foundation Faculty Research Grant</p> <ul style="list-style-type: none"> • The Underlying Biology of Sweetgrass (<i>Muhlenbergia</i> spp.) • PI |
| 2015-2016 | <p>\$10,000 Citadel Foundation – Donor-sponsored Research Award</p> <ul style="list-style-type: none"> • Undergraduate Ecological Research at The Citadel’s Faircloth Property • PI |
| 2014-2015 | <p>\$10,000 Citadel Foundation – Donor-sponsored Research Award</p> <ul style="list-style-type: none"> • Undergraduate Ecological Research at The Citadel’s Faircloth Property • PI |
| 2014-2015 | <p>\$3,000 Citadel Foundation Faculty Research Grant</p> <ul style="list-style-type: none"> • Monitoring plant community dynamics and the spread of Laurel Wilt Disease in South Carolina: Year 7 • PI |
| 2013-2014 | <p>\$10,000 Citadel Foundation – Donor-sponsored Research Award</p> <ul style="list-style-type: none"> • Undergraduate Ecological Research at The Citadel’s Faircloth Property • PI |
| 2013-2014 | <p>\$3,000 Citadel Foundation Faculty Research Grant</p> <ul style="list-style-type: none"> • Monitoring plant community dynamics and the spread of Laurel Wilt Disease in South Carolina: Year 6 • PI |
| 2012-2013 | <p>\$3,000 Citadel Foundation Faculty Research Grant</p> <ul style="list-style-type: none"> • Monitoring plant community dynamics and the spread of Laurel Wilt Disease in South Carolina: Year 5 • PI |
| 2011-2012 | <p>\$3,000 Citadel Foundation Faculty Research Grant</p> |

- Monitoring plant community dynamics and the spread of Laurel Wilt Disease in South Carolina: Year 4
 - PI
- 2010-2011 \$3,000 Citadel Foundation Faculty Research Grant
- Linking Light Availability to the Effects of Laurel Wilt Disease
 - PI
- 2009-2010 \$3,000 Citadel Foundation Faculty Research Grant
- Monitoring plant community dynamics and the spread of Laurel Wilt Disease in South Carolina: Year 2
 - PI
- 2008-2009 \$2,580 Citadel Foundation Faculty Research Grant
- A preliminary survey of Laurel Wilt disease in coastal SC
 - PI
- 2007-2008 \$3,000 Citadel Foundation Faculty Research Grant
- Floristic survey of the high-calcium plant communities of coastal South Carolina
 - PI
- 2006-2007 \$3,000 Citadel Foundation New Faculty Grant
- Floristic survey of the marsh islands of South Carolina
 - PI

D. Citadel Foundation Presentation and Development Grants

- 2014 \$1,005 Citadel Foundation Research Presentation Grant
- Attended the **Association of Southeastern Biologists'** 75th Annual Meeting in Spartanburg, SC with six Citadel cadets April 2-4, 2014.
 - "The short term effects of Laurel Wilt on Southeastern coastal plant species" was presented by cadet co-author Zach J. Brownlee.
- 2014 \$1,024 Citadel Foundation Faculty Development Grant
- Attended the Joint Society Conference of the Society of Economic Botany and the Society of Ethnobiology, May 11-14, 2014 in Cherokee, NC
 - Participated in a workshop to develop hands-on activities for Economic Botany courses (BIOL 419 & 519)

Professional Development Activities and Workshops

A. Workshops and Meetings for Professional Development

- September 2018 Attended the **Inaugural Update on Medical Cannabis Conference** at the Medical University of South Carolina in Charleston, SC on September 28, 2018 to stay current on economic botany across the state.
- February 2017 Participated in the 34th Annual **Chairpersons Conference**, New Orleans, Louisiana from Feb. 8-10 2017, including the New Chairs Alliance Pre-Conference Workshop.
- August 2016 Participated in and led a **Citadel Biology Department Retreat** at Hollings Marine Laboratory on James Island, South Carolina. Biology faculty worked together to review the “Vision and Change” movement in undergraduate biology education and how it could be incorporated into our curriculum.
- May 2014 Participated in the **ITQ (Improving Teacher Quality) Project Directors Meeting** sponsored by the SC Commission on Higher Education in Columbia, SC on May 30, 2014. I attended this half-day workshop, so that I could learn more about the timeline, priorities and process for applying in the next ITQ Grant funding cycle.
- April 2014 Attended the **Association of Southeastern Biologists’ 75th Annual Meeting** in Spartanburg, SC with six Citadel cadets.
- November 2013 Completed the *Coastal Wetland Identification* course put on by the SC Department of Natural Resources as a part of their ACE Basin Coastal Training Program.
- September 2012 Attended the **South Carolina Exotic Pest Plant Council’s Annual Meeting** at Hobcaw Barony, Georgetown, SC.
- April 2012 Attended the **Association of Southeastern Biologists’ 73rd Annual Meeting** in Athens, GA with two Citadel cadets.
- April 2010 Attended the **Association of Southeastern Biologists’ 71st Annual Meeting** in Asheville, NC with two Citadel cadets.
- April 2009 Attended the **Association of Southeastern Biologists’ 70th Annual Meeting** in Birmingham, AL
- April 2008 Attended the **Association of Southeastern Biologist’s 69th Annual Meeting** in Spartanburg, SC

- April 2007 Attended the SERNEC workshop for herbarium curators at the **Association of Southeastern Biologist's 68th Annual Meeting** in Columbia, SC.
- February 2004 Developed models of fire dynamics for regional plant communities at the Southeast Fire Regime Condition Class Reference Condition Workshop sponsored by the USDA-Forest Service at Tall Timbers Research Station, Tallahassee, FL
- November 2003 Facilitated a training workshop on VegBank, the vegetation plot database of the Ecological Society of America's Panel on Vegetation Classification, in Chapel Hill, NC
- September 2003,
March 2004 Attended project design meetings in Santa Barbara, CA and Arlington, VA for the VegBank national floristic database project
- January 2002-
October 2002 Participated in a series of workshops to develop a "Knowledge Network of Biodiversity" at the National Center for Ecological Analysis and Synthesis in Santa Barbara, California
- June 2001 Led a workshop at the **First Annual Charleston Connections: Innovations in Higher Education Conference at the Citadel** on the teaching of genetic techniques to introductory Biology students using models and hands-on experience.

B. On-Campus Professional Development

- March 2016 Participated in and organized a workshop on the *Mastering Biology* software package where Pearson publishing representative Susan Coughlin demonstrated how existing online resources could be used to assist The Citadel Biology Department in better conveying content to the modern student; March 24th 2016.
- December 2015 Participated in a Biology Department meeting on December 10, 2015 with Dr. Jane Ellis, the National Association of Biology Teachers (NABT) President, and Anna Hiatt, Chair of the Introductory Biology Task Force with NABT. The purpose of this professional development activity was to learn about the current "Vision and Change" movement in Undergraduate Biology and determine how it might be integrated into our existing curriculum.
- June 2014 Participated in the first grant writing workshop offered by The Citadel's Office of Grants Administration and Sponsored Programs on June 27, 2014.

April 2013 Met with Alice Hambright to train on LiveText software. After a couple of sessions in April 2013, I was able to review cadet and graduate student ePortfolios and upload materials into LiveText.

C. Professional Licensure and Certification

March 2016 Completed Title IX training through The Citadel's Human Resources Department.

January 2016 Completed Darkness 2 Light Training through The Citadel's Human Resources Department.

December 2013 Completed Title IX training through The Citadel's Human Resources Department.

October 2012 Completed Darkness 2 Light Training through The Citadel's Human Resources Department.

Service Activities

A. Service to the College

2020 – Present The Provost's Workload Task Force - faculty representative for the Swain Family School of Science and Mathematics

2016 – Present Faculty Senate – Appointed Biology Representative

2010 – Present Point of contact for The Citadel Foundation's Indian Hut/Faircloth Property in Georgetown County, South Carolina

2008 – Present Professional Education Board – Biology Representative

2019 – 2020 The Citadel's Master Plan Stakeholders Group - faculty representative for the Swain Family School of Science and Mathematics

2016 – 2017 Member of the college-wide Working Group for the Sustainability and Environmental Studies Minor – The minor was approved in Spring 2017.

2016 Participated in the Mechanical Engineering ABET Accreditation site visit on November 7, 2016 to discuss the role of our Biology for Engineers courses (BIOL 150 /151) in their curriculum.

2014-2015	Faculty Employment Committee (Eliminated when The Citadel's faculty governance structure changed in January 2016)
2013	Participated in the School of Education's NCATE Accreditation site visit on February 25, 2013 to discuss the role of science content in their curriculum.
2011 – 2013	Scholarship Committee – At-Large Representative
2010 – 2013	NCATE Steering Committee – Science Content Advisor
2007 – 2012	Financial Affairs Committee – At-Large Representative

B. Service to the Department

2016 – 2018	Interim Department Head for Biology
2016	Bowers Research Presentation Award Committee Chair
2016	Biology Alumni Event – I scheduled and led an alumni outreach activity in Duckett Hall where alumni were treated to a “virtual walk in the woods.” Richard Porcher and I presented on the local ecology and our research for the group on April 16, 2016.
2015 – 2016	Biology Department Equipment Committee Chair
2015	Biology Department Representative – I filled in for the Dept. Head at the Spring and Fall 2015 meetings of The Citadel Science and Mathematics Council (an advisory board to The Citadel's School of Science and Mathematics)
2015	Biology Alumni Event – I helped to schedule and lead an alumni outreach activity at Longwood Plantation in Huger, SC.
2015	Skanchy Biology Research Award Selection Committee Member
2014	Biology Alumni Event – I proposed, scheduled and helped to lead a series of field trips at Caw Caw Interpretive Center that was offered exclusively to Biology alumni, faculty and cadets.
2013 – 2014	Biology Department Equipment Committee Member

- 2013 Biology Alumni Event – I proposed, scheduled and helped to lead a field trip to Sullivan’s Island that was offered exclusively to Biology alumni, faculty and cadets. This was the first of several annual events used to reconnect with Biology alumni.
- 2013 Attended the “Friends of Biology” (Biology advisory committee) meeting on Oct. 5, 2013.
- 2013 Skanchy Biology Research Award Selection Committee Member
- 2012 – 2013 Biology Department Equipment Committee Member
- 2011 – 2012 Biology Department *ad hoc* Curriculum Review Committee Member
- 2011 – 2012 Biology Department Equipment Committee Chair

C. Service to the Students

- 2007 – Present Advisor to Undergraduate Students pursuing a Bachelor of Science in Biology or a Bachelor of Science in Biology with a Teaching specialization
- 2008 – Present Research Advisor to Cadets pursuing a Bachelor of Science in Biology (29 student projects)
- 2008 – Present Research Advisor to Graduate Students pursuing a Master of Arts in Biology (15 student projects)
- 2008 – Present Advisor to *all* Undergraduate Students pursuing a Bachelor of Science in Biology with a Teaching specialization
- 2008 – 2015 Content Advisor to *all* Graduate Students pursuing a Master of Arts in Teaching specializing in Biology
- 2013 Graduate Committee member for Psychology graduate student Lesleigh Patton. Her thesis titled *The Human-Nature Relationship and the Biophilia Hypothesis* was successfully defended on April 23, 2013.

D. Service to the Community

- 2014 – Present Contributor to the Annual Bulls Bay Nature Festival in Awendaw, SC
- 2006 – Present Host for the monthly meetings of the Lowcountry Chapter of the South Carolina Native Plants Society for over 12 years
- 2010 – 2016 Frequent contributor to CHE-funded teacher workshops at The Citadel. I have developed science content and occasionally coordinated, a series of teacher’s workshop sessions with The Citadel School of Education. These interactions have led to class visits and email consultations where I have been able to provide supplemental content to Lowcountry middle and high school teachers.
- 2008 – 2015 Frequent contributor to the Lowcountry Master Naturalist program conducted by Charleston Country Parks and Recreation and certified by Clemson Extension Service.
- 2016 Gave a guest lecture and interpretive walk on Edisto Island, SC for the Edisto Island Open Land Trust on March 12, 2016.
- 2013 Attended The Nature Conservancy’s Volunteer Day at Washo Reserve in McClellanville, SC with a class full of Biology cadets who participated in a cypress restoration project.

E. Service to the Discipline

- 2016 – Present Associate Editor for *Native Plants Journal*
- 2007 – Present Curator of The Citadel Herbarium (CITA) – Provided outreach to the local scientific community by maintaining voucher specimens, sharing equipment and space (when available) with fellow researchers, and assisting with plant identification.
- 2014 Reviewed the proposed Francis Marion National Forest Management plan in a meeting with USDA Forest Service employees in Moncks Corner on April 15, 2014.
- 2013 Expert Reviewer for the *US National Vegetation Classification* system – Culminating in a two-day conference at the NC Botanical Garden (Nov. 21-22, 2013)
- 2012 Grant Reviewer for *National Fish and Wildlife Foundation*

- 2008 – 2010 Chair of the Southeastern Chapter of the *Ecological Society of America*
- 2008 – 2009 Chair of the Odum Award Committee for the Southeastern Chapter of the *Ecological Society of America*

Journal Peer-Reviews

Applied Vegetation Science
Castanea
Forest Ecology and Management
Journal of Coastal Research
Journal of Vegetation Science

Affiliations and Memberships

Ecological Society of America (ESA)
Society for Economic Botany (SEB)
Association of Southeastern Biologists (ASB)
Society of Herbarium Curators (SHC)
SouthEast Regional Network of Expertise and Collections (SERNEC)
South Carolina Native Plant Society (SCNPS)
South Carolina Exotic Pest Plant Council (SC-EPPC)
Southern Appalachian Botanical Society (SABS)