

CURRICULUM VITAE: DANNY J. GUSTAFSON

Danny J. Gustafson, Ph.D., M.S., B.A., M.T. (ASCP)

Professor Plant Molecular Ecology

Department of Biology

The Citadel, Charleston, SC 29409

(843) 953-7876

danny.gustafson@citadel.edu

Education:

- Ph.D. Plant Molecular Ecology, Southern Illinois University, Carbondale, IL, 2000. (Dissertation Advisors: D.J. Gibson and D.L. Nickrent)
- M.S. Plant Ecology and Conservation Biology, Illinois State University, Normal, IL, 1996. (Thesis Advisor: R.C. Anderson)
- B.A. Biology and Medical Technology (Chemistry minor), Blackburn College, Carlinville, IL, 1990. Medical Technologist Certification with the American Society of Clinical Pathology.

Professional Experience:

- 2015-present Professor, The Citadel
- 2004-2016 Adjunct Faculty, College of Charleston (CofC) Grice Marine Laboratory and Master's in Environmental Sciences (MES) graduate programs.
- 2009-2015 Associate Professor, The Citadel.
- 2003-09 Assistant Professor, The Citadel.
- 2000-03 Post-doctoral Research / Teaching Fellow, Department of Biology, University of Pennsylvania, Philadelphia, PA.
- 1995-1998 Research and Teaching Assistant, Plant Biology Department, Southern Illinois University, Carbondale, IL.
- 1993-1995 Teaching Assistant, Biology Department, Illinois State University, Normal, IL.
- 1991-1995 Medical Technologist (ASCP) Stroink Pathology Laboratory, Bloomington, IL.
- 1990-1991 Medical Technologist (ASCP) Decatur Memorial Hospital, Decatur, IL.

Awards & Honors

- Excellence in Undergraduate Research Mentoring Award 2021 (inaugural winner)
- Fellow of the James B. Near, Jr., USAF, '77 Center for Climate Studies. November 2020.
- Sabbatical 2019-2020 (full year) – *Coccoloba uvifera* chloroplast phylogeography research.
- Certified Senior Ecologist (ESA) 2014-2019
Recertified Senior Ecologist 2019-2024
- Invited workshop panelist – native plant species material for restoration (workshop 34, Ecological Society of America annual meeting, New Orleans, LA) Aug 2018
- C.A. Medbery Teaching Award 2016
- Citadel Spotlight Teaching and Scholarship Faculty Award 2015
- Sabbatical 2011-2012 (full year) – *Symphytotrichum georgianum* SNP research.
- Certified Medical Technologist, American Society of Clinical Pathology (1990)

Teaching Experience (*both undergraduate and graduate courses):

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| 2003- | The Citadel: Ecology*, Restoration Ecology*, Tropical Rainforest and Reef Ecology*, Independent Research*, General Biology (full year), Majors General Biology (full year), Biometry (graduate only), Environmental Science, NTSS Environmental Science, Introduction to Plant Biology*, Conservation Ecology, Field Methods*, Documentaries and Scientific Literature, Laboratory Methods*. |
| 2000-03 | University of Pennsylvania: Field Biology and Introductory Biology. |
| 1997-98 | Teaching Assistant, Department of Plant Biology, Southern Illinois University Carbondale. |
| 1995 | Lincoln Community College: Environmental Science. |
| 1993-95 | Teaching Assistant, Department of Biological Sciences, Illinois State University. |

Student Research

1. I have mentored 59 undergraduate and graduate students, resulting in undergraduate co-authorship on 21 papers (11 peer-reviewed journal articles-20 student coauthors, and 10 technical reports, 14 student coauthors) and 43 published abstracts (35 with student coauthors) (*see below*). Students (Trenton Riffe, Edward Clements, Austin Perry, Grayson Dewald, Caleb Yon, Jaelynn Elgert, Michael DiSilvestro, Madeline Schmuck, Timothy Goike, Logan Dix, Derek P. Webster, Ben Scott, Isabella Gustafson (USC), Sam Eckert, Adebawale Oladimeji, R. Matthew Cudd, Matthew Miller, Joshua Ganezer, Brain Owens, Parker Gustafson (USC/Citadel), Molly Hopkins, William (Billy) Ellison, Constance Floyd, Matthew Johnson, William Oakley, Samantha Martin, W. Luke Mills, Kyle Zahn, Lucinda Acuna, Daniel Larimore, Johnathan Overcash, Joaquin Marquez, Duncan Rhodes, Steven Woodyard, Martin Duplantier, John Synovec, James Herrall, Josh Kantz, Ian Sweet, Steven Hopkins, Greg Schulman, Charles Major, Dewitt Jones, Avel Fernandez, Michael Pierce, Nick Vincent, Anthony Giunta Jr., Heather Chandler, Clay Carter, Lyle Parks, Will Chapman, Shane Kersting, Esteban Sierra, Chris Morrow, Jeff Kilheffer, Phillip Strole, Stephen L. Goldfinch and M. Papus Keita).
2. Henson (Rattenbury), Tessa. 2011. Thesis titled, 'Assessment of genetic variation in tolerance and metal accumulating ability of eight populations of *Chamaecrista fasciculata* in response to elevated soil cadmium levels.' MES CofC.
3. DiBona, Winslow. 2011. Senior thesis titled, 'Comparison of high and low profile sports and their effects on GPA.' Academic Magnet High School, North Charleston, SC.
4. Bachman, Craig. 2009. Internship titled, 'Managing and enhancing the educational components of a nature-based tourism business.' MES CofC.
5. McClain, Melissa. 2009. Senior thesis titled, 'Comparing erosion levels at Pawley's, Edisto, Kiawah, Sullivan's, Seabrook, Folly, Hilton Head, Isle of Palms, and Hunting Islands.' Academic Magnet High School, North Charleston, SC.
6. Beck, Jennifer 2007. Thesis titled, 'Plant source influence on *Spartina alterniflora* growth in South Carolina marshes.' MES CofC.
7. Calloway, Jacquie. 2007. Senior thesis titled, 'Laurel wilt disease at Caw Caw County Park, Charleston, SC.' Academic Magnet High School, North Charleston, SC.

Funded Grants and Cooperative Agreements (total \$224,025.07 as of 12/25/2025)

1. The Citadel Foundation Presentation Grant to Danny J. Gustafson 2025, "The use of Environmental DNA for Mensurative Ecology in Low Country Populations of Frogs in Francis Marion National Forest," presented at the 86th Annual Meeting of the Association of Southeastern Biologists, Myrtle Beach, SC. Requested and funded \$1115.57.
2. The Citadel Foundation Presentation Grant to Danny J. Gustafson 2025, "Isolated wetland frog community composition seasonal phenology." Requested and funded \$3895.00.
3. The Citadel Foundation Page Charge Grant for manuscript titled, "Phylogeography of *Coccoloba uvifera* (Polygonaceae) sampled across the Caribbean Basin." Published in *Diversity* Sept 2024. Requested and funded \$3055.57.
4. Francis Marion National Forest *Lindera melissifolia* 2024 field surveys. Contract (\$2400) with Francis Marion Ranger District Office, 2967 Steed Creek Road, Huger, SC 29450. Submitted report 2 May 2024.
5. The Citadel Foundation Research Grant to Danny J. Gustafson 2024-2025 titled, "North American Coastal Plains longleaf pine plant biodiversity studies (continuation)." Requested and funded \$4000.00.
6. The Citadel Foundation Presentation Grant to Danny J. Gustafson 2024, "Low-tech seed enhancement technology could improve germination and establishment of longleaf pine understory perennial forbs," presented at the 85th Annual Meeting of the Association of Southeastern Biologists, Chattanooga, TN. Requested and funded \$1316.43.
7. The Citadel Foundation Research Grant to Danny J. Gustafson 2023-2024 titled, "North American Coastal Plains longleaf pine plant biodiversity studies." Requested and funded \$3000.00.
8. The Citadel Foundation Research Faculty Development Grant to Danny J. Gustafson, 2023. This was funding for attending The Longleaf Alliance Groundcover Restoration workshop, Moncks Corner, SC 29461, Oct 17-19, 2023. Requested and funded \$250.00.
9. The Citadel Foundation Research Grant to Danny J. Gustafson 2022-2023 titled, "Expanded chloroplast sequencing of *Coccoloba uvifera* (L.) from Aruba, Antigua, and Eleuthera." Requested and funded \$3000.00.
10. Francis Marion National Forest *Lindera melissifolia* 2022 field surveys. Contract (\$1800) with Francis Marion Ranger District Office, 2967 Steed Creek Road, Huger, SC 29450.
11. The Citadel Foundation Research Grant to Danny J. Gustafson 2021-2022 titled, "Chloroplast sequencing of *Coccoloba uvifera* (L.) from Aruba, Antigua, and Eleuthera." Requested and funded \$3000.00.
12. The Citadel Foundation Research Grant to Danny J. Gustafson 2020-2021 titled, "U.S. Virgin Islands phytogeography study of *Coccoloba uvifera* (L.)." Requested and funded \$3000.00.
13. Summer Undergraduate Research Experience (SURE) 2020 in collaboration with Cadet Ben Scott. Project – Ben Scott SURE 2020 *Coccoloba uvifera* BEAST2 Analyses (Bayesian Phylogenetic Analyses). This program provides \$3000 stipend to the student (Cadet Ben Scott) and \$1000 stipend to the faculty. Requested and funded \$4000.

14. The Citadel Foundation development grant to Danny J. Gustafson April 2020 to establish a collaborative partnership with Dr. Aidan Farrell at the University of the West Indies, Trinidad. This research collaborative is in support of my productive undergraduate researchers and The Citadel Undergraduate Research Experience (CURE) Program. Requested and funded \$1760.00
15. The Citadel Foundation to Danny J. Gustafson 2019-2020 titled, "A phytogeography study of *Coccoloba uvifera* (L.) (aka. Seagrapes) across the Caribbean Basin using non-coding chloroplast genes" Requested and funded \$3000.00.
16. The Citadel Foundation Presentation Grant titled, "Greenhouse propagation of the endangered hemiparasite *Schwalbea americana* (American Chaffseed): experimentation and botanical studies." 12th Biennial Longleaf Conference, Alexandria, LA, Oct 22-26, 2018. Requested and funded \$1344.
17. The Citadel Foundation Page Charges for manuscript titled, "Seed sourcing for longleaf pine herbaceous understory restoration: little bluestem (*Schizachyrium scoparium*) and hairy lespedeza (*Lespedeza hirta*)." Published in Natural Areas Journal October 2018. Requested and funded \$780.
18. The Citadel Foundation to Danny J. Gustafson 2018-2019 titled, "*Coccoloba uvifera* (L.) non-coding chloroplast gene biogeography: Yucatan peninsula." Requested and funded \$3000.00.
19. The Citadel Foundation Presentation Grant titled, "Fine-scale spatial genetic structure of Georgia Aster (*Symphytotrichum georgianum*): small vs. large populations. Association of Southeastern Biologists, Myrtle Beach, SC, March 28-31, 2018. Requested and funded \$936.00.
20. The Citadel Foundation to Danny J. Gustafson 2017-2018 titled, "Genetic structure of *Coccoloba uvifera* (L) on a tropical storm and hurricane impacted island - Eleuthera, Bahamas." Requested and funded \$3000.00.
21. The Citadel Foundation development grant to Danny J. Gustafson November 2016 in support of taking an online introduction to R programming language. R is free software, used to develop statistical analyses packages, and could be used in conjunction with the Biometry course (BIOL 505). Requested and awarded \$490.
22. The Citadel Foundation Presentation Grant titled, "Effects of coastal development on estuary health in Edisto Beach, South Carolina." National Committee on Undergraduate Research national meeting in Asheville, NC, April 7-9, 2016. Requested and funded \$1224.00.
23. Longleaf Alliance to Danny J. Gustafson. 2016. Genetic relationships among source populations in a common garden experiment: *Schizachyrium scoparium* and *Lespedeza hirta*. Submitted to Longleaf Alliance in the fall of 2015, awarded in 2016. Requested and funded \$5000.
24. The Citadel Foundation to Danny J. Gustafson 2016-2017 titled, "Genetic structure of *Coccoloba uvifera* (L.) from a desert island not impacted by hurricanes". Requested and funded \$2916.
25. The Citadel Foundation to Danny J. Gustafson 2015-2016 titled, "Phylogeography study of *Coccoloba uvifera* (L.) across the species range". Requested and funded \$2936.
26. South Carolina Sea Grant Consortium to Danny J. Gustafson. 2015. Does land use activities affect the animal composition in a tidal creek / salt marsh in Scott creek, Edisto Beach, South Carolina: 2005 and 2015 field data. Submitted to the School of Science and Math, funded by the South Carolina Sea Grant Consortium. Requested and funded \$4165.
27. The Citadel Foundation Page Charges Grant for publication, "Genetic sorting of subordinate species in grassland modulated by intraspecific variation in dominant species." This research was published in the international journal Public Library of Science One (PLOS One). PLOS ONE 9(3): e91511.

- doi:10.1371/journal.pone.0091511. The research funded by National Science Foundation and The Citadel Foundation grants to DJG and the research was conducted with Cadets Charles Major, Dewitt Jones, and John Synovec, who were co-authors on the manuscript. Requested and funded \$1440.
28. Citadel Foundation to Danny J. Gustafson 2014-2015 titled, "Phylogeography study of *Coccoloba uvifera* (L.) across the species range". Requested and funded \$2936.
 29. The Citadel Foundation to Danny J. Gustafson. 2013-2014. "Genetics of seed source selection in Longleaf Pine Savanna herbaceous restoration." Requested and funded \$3000.
 30. The Citadel Foundation Presentation Grant titled, "Influence of dominant species seed source selection on the genetic structure of subordinate species during plant community assembly." Natural Areas Association meeting in Chicago, Illinois, October 1-4, 2013. Requested and funded \$1553.20.
 31. The Citadel Foundation Page Charges Grant for publication and reprints of the manuscript titled, "Extensive clonal growth and biased sex ratios of an endangered dioecious shrub, *Lindera melissifolia* (Walt) Blume (Lauraceae)." This research was published in the Journal of the Torrey Botanical Society 2013, Vol 140, Number 2, pages 133-144. The research funded by The Citadel Foundation and conducted with Cadet Anthony Guinta Jr., who is co-author on the manuscript. Requested and funded \$179.33.
 32. The Citadel Foundation to Danny J. Gustafson. 2012. "Single Nucleotide Polymorphism (SNP) fine-scale genetic characterization of *Symphyotrichum georgianum* (Alexander), G.L. Nesom." Requested and funded \$3000.
 33. The Citadel Foundation to Danny J. Gustafson. 2011. "Genetic survey of *Symphyotrichum georgianum* (Georgia aster) populations in Alabama, Georgia, South and North Carolina." Requested and funded \$2992.
 34. United State Department of the Interior, Fish and Wildlife Service cooperative agreement with Danny J. Gustafson (#40181AJ197). 2010. "Genetic survey of *Symphyotrichum georgianum* (Georgia aster) populations in Alabama, Georgia, North Carolina and South Carolina." Requested and funded \$14560.
 35. United States Forest Service to Danny J. Gustafson (#10-CS-11081209-002). 2010. "*Lindera melissifolia* reproduction and spatial genetics in the Francis Marion National Forest, SC." Requested and funded \$6000.
 36. The Citadel Foundation to Danny J. Gustafson. 2010. "Determining subpopulation sex ratios, sexual reproductive output, and outcrossing rates of *Lindera melissifolia* in South Carolina Department of Natural Resources newly discovered Woodbury Tract." Requested and funded \$2999.00.
 37. The Citadel Foundation to Danny J. Gustafson. 2009. "Genetic control of plant community assembly rules: second year of project." Requested and funded \$2212.
 38. National Science Foundation Research Opportunity Agreement (ROA) Supplement to Danny J. Gustafson in cooperation with Drs. Sara G. Baer and David J. Gibson grant (DEB 0516429; Genotype sorting as a mechanism for structuring plant communities). 2008. "Hierarchical Consequences of Intraspecific Variation on Community and Ecosystem Re-assembly." Requested and funded \$24,589.
 39. The Citadel Foundation to Danny J. Gustafson. 2008. "Genetic control of plant community assembly rules." Requested and funded \$2996.

40. United States Department of the Navy, Southern Division, Naval Facilities Engineering to Danny J. Gustafson, D.J., and Joel Gramling. 2008. "Determining subpopulation sex ratios, sexual reproductive output, outcrossing rates, and the potential impact of Laurel Wilt Disease on *L. melissifolia* sites at the MCAS." Requested and funded \$11,151.
41. The Citadel Foundation to Danny J. Gustafson. 2007. "Genetic and habitat characterization of sweetgrass (*Muhlenbergia sericea* (Michx.) P.M. Peterson, syn. *M. filipes*) along the South Carolina coast." Requested and funded \$2999.
42. South Carolina Department of Natural Resources cooperative agreement with Danny J. Gustafson. 2006. "Sweetgrass quantitative and qualitative genetic research." Funding not to exceed \$15,000.
43. The Citadel Foundation to Danny J. Gustafson. 2006. "ISSR study of the endangered pondberry (*Lindera melissifolia*) in the Francis Marion National Forest, SC." Requested and funded \$2996.
44. United States Department of the Navy, Southern Division, Naval Facilities Engineering Command, to Danny J. Gustafson. 2006. "Assessing the fine-scale spatial genetic structure of *Lindera melissifolia* using hypervariable ISSR markers." Requested \$15,613, funded \$3961.
45. South Carolina Department of Natural Resources to Danny J. Gustafson. 2005. "Botanical studies at Edisto Beach Causeway." Requested and funded \$20,130.
46. The Citadel Foundation to Danny J. Gustafson. 2005. "Investigating three trophic level interactions within South Carolina Salt Marshes." Requested and funded \$3000.
47. South Carolina Sea Grant Consortium to Danny J. Gustafson, with matching funds with The Citadel. 2004. "Characterizing the physical, physiological, and genetic *Spartina alterniflora* individual in low and high *Spartina* salt marshes." Requested and funded \$7248.
48. The Citadel Foundation to Danny J. Gustafson. 2004. "Does *Prokelisia marginata* (*Spartina* Leafhopper) population dynamics affect *Spartina alterniflora* productivity?" Requested and funded \$3000.
49. South Carolina Department of Natural Resources to Danny J. Gustafson. 2004. "GIS mapping of Edisto Beach Causeway." Requested and funded \$3700.
50. National Science Foundation grant to Brenda B. Casper (post-doc advisor) and Steve Bentivenga. 2003. "Plant / soil negative feedback in serpentine barrens and tallgrass prairies." Requested and funded \$300,000. I conducted the preliminary research, made all field site selections, organized the cooperative researchers (Dr. Morton at University of Wisconsin), and co-wrote the NSF grant. Subcontract funded approximately \$3000.
51. The Citadel Foundation to Danny J. Gustafson. 2003. "Investigating spatial – temporal dynamics of *Spartina alterniflora* die-back within a southern salt marsh." Requested and funded \$3000.
52. The Nature Conservancy, Pennsylvania Chapter to Danny J. Gustafson. 2001. "Molecular Genetic Study of Two Purportedly Endemic Plants of Eastern Serpentine Grasslands." Requested and funded \$5000.
53. Illinois Department of Natural Resources, Illinois Wildlife Preservation Fund to Danny J. Gustafson and D.L. Nickrent. 1998. "Goose Lake Prairie Project." Requested and funded \$1000.
54. United States Department of the Army, Army Corps of Engineers to Nickrent, D. L., D. J. Gibson and Danny J. Gustafson. 1996. "Characterization of big bluestem (*Andropogon gerardii*) from the Grand Prairie of Arkansas." Requested and funded \$6000.

Scientific Talks and Invited Presentations. This is an incomplete list; Gustafson presented an oral presentation unless indicated otherwise. Presentations are identified as (I) invited, (L) local/regional, (N) national or International (It). Undergraduate researcher co-author is underlined and (*) presenter.

1. **Gustafson, D.J.** 2025. Climate change impacts the ecological processes of the longleaf pine ecosystem. Presented to The Near Center for Climate Studies, The Citadel Military College of South Carolina, Charleston, SC. 20 March 2025 (L)
2. Dewald, G.S.*, Yon, C.M.*, **Gustafson, D.J.** 2025. Using eDNA to Characterize Amphibian Communities in Isolated Wetlands of the Longleaf Pine Ecosystem. Association of Southeastern Biologists (TriBeta Biology National Honor Society), Myrtle Beach, SC. Poster (N)
3. DiSilvestro, M.*, Schmuck, M.*, **Gustafson, D.J.** 2025. Designing a better seed ball: Longleaf Pine native perennial forb seedling recruitment. Association of Southeastern Biologists (TriBeta Biology National Honor Society), Myrtle Beach, SC. Poster (N)
4. Schmuck, M.*, DiSilvestro, M.*, **Gustafson, D.J.** 2024. Low-tech seed enhancement technology could improve germination and establishment of longleaf pine understory perennial forbs. Association of Southeastern Biologists, Chattanooga, TN. Poster (N)
5. Scott, B.K.*, Dix, L.A.*, Webster, D.P.*, Gustafson, I.E.*, Donnell, D.M., and **Gustafson, D.J.** 2021. Preliminary phylogeography analyses of *Coccoloba uvifera* (L.) sampled across the Caribbean Basin. Association of Southeastern Biologists, virtual meeting. Poster (N)
6. Dix, L.A., Webster, D.P., Scott, B.K., Donnell, D.M., and **Gustafson, D.J.** 2020. A preliminary assessment of chloroplast sequences in *Coccoloba uvifera* (Polygonaceae) for use in phylogeographic analyses. Association of Southeastern Biologists, Jacksonville, FL. Poster (N) (canceled – Covid19)
7. Dix, L.A., Webster, D.P., Scott, B.K., Donnell, D.M., and **Gustafson, D.J.** 2019. Screening chloroplast genes in *Coccoloba uvifera* (Polygonaceae) for suitability for phylogeographic analyses. Southern Conference Undergraduate Research Forum, Spartanburg, SC. Poster (L)
8. Eckert, S.*, Owens, B., **Gustafson, D.J.**, Gramling, J.M., and Porcher, R.D. 2019. Long-term demography study of *Trillium pusillum* var. *pusillum* following Hurricane Hugo in 1989. Southern Conference Undergraduate Research Forum, Spartanburg, SC. Poster (L)
9. Walker, J., Giencke, L., and **Gustafson, D.J.*** 2018. Which seed sources for longleaf pine restoration? Common garden and genetic studies to inform seed zone development. 12th Biennial Longleaf Conference, Alexandria, LA. (N)
10. **Gustafson, D.J.***, Woodyard, S.E., Marquez, J., Rhoad, W.D., Glitzenstein, J.S., and Gramling, J.M. 2018. Greenhouse propagation of the endangered hemiparasite *Schwalbea americana* (American Chaffseed): experimentation and botanical studies. 12th Biennial Longleaf Conference, Alexandria, LA. Poster (N)
11. Miller, M., Ganezer, J.*, Cudd, R.M.*, **Gustafson, D.J.**, and Alberts, J. 2018. Comparing nutrients and quality of aeroponically grown lettuce versus lettuce purchased from a grocery store. Association of Southeastern Biologists, Myrtle Beach, SC. Poster (N)
12. Owens, B.*, **Gustafson, D.J.**, Gramling, J.M., and Porcher, R.D. 2018. 28-year demographic study of *Trillium pusillum* var. *pusillum*. Association of Southeastern Biologists, Myrtle Beach, SC. Poster (N)

13. Mills, W.L.* and **Gustafson, D.J.** 2018. Single nucleotide polymorphism (SNP) analysis of *Symphyotrichum georgianum* from large and small Georgia, South Carolina, and North Carolina populations. Association of Southeastern Biologists, Myrtle Beach, SC. Poster (N)
14. Owens, B.*, and **Gustafson, D.J.** 2017. 27 year demographic study of *Trillium pusillum* var. *pusillum* following Hurricane Hugo. Southern Conference Undergraduate Research Forum, Spartanburg, SC. Poster (L)
15. Miller, M.*, Ganezer, J., **Gustafson, D.J.**, and Alberts, J. 2017. Comparing the plant quality of aeroponically grown plants versus locally purchased alternatives. Southern Conference Undergraduate Research Forum, Spartanburg, SC. Poster (L)
16. Mills, W.L.*, and **Gustafson, D.J.** 2017. Fine scale genetic structure study of small and large populations of *Symphyotrichum georgianum* (Georgia Aster): preliminary results. 31th Annual National Council on Undergraduate Research, Memphis, TN. Poster (N)
17. Mills, W.L.*, and **Gustafson, D.J.** 2016. Fine scale genetic structure study of small and large populations of *Symphyotrichum georgianum* (Georgia Aster). Southern Conference Undergraduate Research Forum, Spartanburg, SC. Poster (L)
18. Larimore, D.L.*, Overcash, J.M.*, and **Gustafson, D.J.** 2016. Effects of Coastal Development on Estuary Health in Edisto Beach, South Carolina. 30th Annual National Council on Undergraduate Research, Asheville, NC. Poster (N)
19. Rhoad, W.D., Woodyard*, S.E., & **Gustafson, D.J.** 2014. Developing *ex situ* Protocols for the Endangered American Chaffseed. Association of Southeastern Biologists, Spartanburg, SC. Poster. Poster (N)
20. **Gustafson, D.J.** 2013. Influence of dominant species seed source selection on the genetic structure of subordinate species. Natural Areas Association. Chicago, IL. (I, N)
21. **Gustafson, D.J.**, Synovec, J., Jones, D., Major, C., Gibson, D.J., & Baer, S.G. 2012. *Chamaecrista fasciculata*, *Silphium integrifolium*, and *Sorghastrum nutans* show divergence in genetic structure when grown in a background of wild collected versus cultivars of the dominant grasses. Association of Southeastern Biologists, Athens, GA. (N)
22. **Gustafson, D.J.** 2012. Lessons learned from our molecular ecology studies from the Tallgrass Prairie to the Southeastern Salt Marsh. United States Army Corps of Engineers, Chicago, IL. (I, N)
23. **Gustafson, D.J.** 2012. A 21-year monitoring program of *Trillium pusillum* var. *pusillum* (aka. Carolina least trillium or dwarf trillium) in Francis Beidler Forest: Post Hurricane Hugo, population dynamics, and conservation genetics. South Carolina Native Plant Society, Charleston, SC. (I, L)
24. **Gustafson, D.J.**, Giunta, A., Jr., Deemer, D, & Echt, C. 2010. Evaluating spatial genetic structure of an endangered dioecious shrub (*Lindera melissifolia*) in South and North Carolina. Poster. Ecological Society of America, Pittsburg, PA. August 2010. Poster (N)
25. Gustafson, D.J., Major, C., Jones*, D., Gibson, D.J., & Baer, S.G. 2010. Testing genetic control of grassland assembly rules. Poster. Ecological Society of America, Pittsburg, PA. Poster (N)
26. Jones*, D., Fernandez, A., Major, C., & Gustafson, D.J. 2009. *Silphium integrifolium* genetic structure as a function of the dominant grasses seed source. Poster. Association of Southeastern Biologists, Birmingham, AL. Poster (N)
27. Lake*, D.T., Gramling, J.M., & Gustafson, D.J. 2009. Deadly duo: ecological impacts of the Red Bay ambrosia beetle. Association of Southeastern Biologists, Birmingham, AL. Poster (N)

28. Major*, C., Jones, D., Fernandez, A., & Gustafson, D.J. 2009. Dominant species genotypes influence subordinate species genetic structure in restored grasslands. Association of Southeastern Biologists, Birmingham, AL. Poster (N)
29. **Gustafson, D.J., Major, C., Fernandez, A., Jones, D., Gibson, D.J., & Baer, S.** 2008 Genetic control of grassland assembly rules: preliminary results. Eastern Native Grass Symposium, Columbia, SC. (N)
30. **Gustafson, D.J.** 2008. Testing Soil Nutrients & Plant Genotype in Serpentine Plant – Soil Interactions. Sixth International Conference on Serpentine Ecology. College of the Atlantic, Bar Harbor, MA. (I, It)
31. **Gustafson, D.J.** 2008. Featured interview (Sweetgrass (*Muhlenbergia seracea*) ecology) in the documentary by Dana Sardet titled, “Grass Roots: the enduring art of the lowcountry baskets”. Produced by produced by the Center for the Documentary at the College of Charleston in association with Avery Research Center for African American History & Culture, and the Museum for African Art, New York, NY. (I)
32. Giunta*, A., Jr., & Gustafson, D.J. 2008. Evaluating spatial genetic structure of an endangered dioecious shrub (*Lindera melissifolia*) in South and North Carolina. Association of Southeastern Biologists, Spartanburg, SC. (N)
33. Giunta*, A., Jr., Gustafson, D.J., Deemer¹, D, & Echt¹, C.S. 2007. The Citadel and USDA Forest Service¹. Assessing the fine-scale spatial genetic structure of *Lindera melissifolia* in North and South Carolina. Poster. Association of Southeastern Biologists, Columbia, SC. (N)
34. **Gustafson, D.J.** 2007. Molecular ecology study of purple prairie clover in Illinois. University of Florida, IFAS, Native Wildflower Seed Production Research Symposium, Orlando, FL. (I, N)
35. **Gustafson, D.J.** 2007. Genetic and competition studies of Big Bluestem, Indian Grass, and Purple Prairie Clover in remnant and restored Tallgrass Prairies. Symposium: Conservation Biology of Eastern Tallgrass Prairie: Integrating Issues of Management and Restoration for the 21st Century. Botanical Society of America and Plant Biology Association, Chicago, IL. (I, N)
36. **Gustafson, D.J.** 2007. Biological inventory of Scott Creek. South Carolina Department of Natural Resources and A.C.E Basin National Estuary Research Reserve, Edisto Interpretive Center, Edisto, SC. (I, L)
37. Beck*, J. & Gustafson, D.J. 2006. Plant Source Influence on *Spartina alterniflora* Growth in Restored South Carolina Marshes. Poster. Grice Marine Laboratory Student Research Colloquium, Charleston, SC. (L)
38. Beck*, J. & Gustafson, D.J. 2006. Plant Source Influence on Survivorship and Vegetative Reproduction of *Spartina alterniflora* in South Carolina Marshes. Poster. Southeastern Estuarine Research Society, Ponte Vedra Beach, FL. (N)
39. **Gustafson, D.J.** 2006. Native grass conservation and restoration. Grass Breeders Conference, Ames, IA. (I, N)
40. Beck, J. & Gustafson, D.J. 2006. Comparison of nursery purchased versus field collected *Spartina alterniflora* plants in two South Carolina common garden experiments. Poster. Coastal and Estuarine Habitat Restoration, New Orleans, LA. (N)
41. Morrow, C. & Gustafson, D.J. 2006. Does physiological integration among *Spartina alterniflora* ramets reduce the negative effects of grazers? Poster. Association of Southeastern Biologists, Gatlinburg, TN. (N)

42. **Gustafson, D.J.** 2006. The science behind sweetgrass conservation. South Carolina Native Plant Society, Charleston, SC. (L)
43. Strole*, P., Sierra, E., & Gustafson, D.J. 2006. ISSR analysis of 'Sweetgrass' and two closely related species. Poster. Association of Southeastern Biologists, Gatlinburg, TN. (N)
44. Chapman*, W., Kersting, S., Beck, J., & Gustafson, D.J. 2006. Is the grass greener on the other side of the road? Characterizing primary producers, primary and secondary consumers in two marshes separated by an earthen causeway. Poster. Association of Southeastern Biologists, Gatlinburg, TN. (N)
45. Kilheffer*, J., Gustafson, D.J., & Silliman, B. 2005. Snail and insect relative impacts on *Spartina alterniflora* productivity. Poster. Society of Wetland Scientists, Charleston, SC. (It)
46. Kilheffer, J., Gustafson, D.J., & Silliman, B. 2005. Testing the relative contribution of *Littoraria irrorata* and *Prokelisia marginata* to top-down regulation of *Spartina alterniflora* productivity in a southern salt marsh. Poster. Association of Southeastern Biologists, Florence, AL. (N)
47. Kersting*, S., Sierra, S., Morrow, C., Kilheffer, J., & Gustafson, D.J. 2005. Testing predator-herbivore-plant interactions across the landscape: survey of *Littoraria irrorata* population structure and its impact on *Spartina alterniflora* in multiple South Carolina salt marsh communities. Poster. Southeastern Estuary Research Society, Charleston, SC. (N)
48. Cahill*, J. F., Jr., Kembel, S.W. & Gustafson, D.J. 2004. Differential genetic influence on competitive effect and response in *Arabidopsis thaliana*. Ecological Society of America. Portland, Oregon. (N)
49. **Gustafson, D.J., & Latham, R.E.** 2004. Is the serpentine aster, *Symphyotrichum depauperatum* (Fern.) Nesom, a valid species and actually endemic to eastern serpentine barrens? Association of Southeastern Biologists, Memphis, TN. (N)
50. **Gustafson, D.J.** 2004. Salt marsh dieback in South Carolina: history, hypotheses, and what are we doing about it. University of South Carolina, Beaufort, SC. (I, L)
51. **Gustafson, D.J.** 2004. Empirical data supporting use of 'local' grass genotypes and some potential implications for grassland community dynamics. Plenary Speaker, Eastern Native Grass Symposium, Lexington, KY. (I, N)
52. **Gustafson, D.J.** 2004. Prairie Plant Genetics. University of Kentucky, Lexington, KY. (I, L)
53. **Gustafson, D.J.** 2004. Plant / soil microbe feedback: Who is driving the system? University of South Carolina, Aiken, SC. (I, L)
54. **Gustafson, D.J., & Casper, B.B.** 2002. Soil nutrients influencing plant/soil community feedback. Ecological Society of America. Tucson, AZ. (N)
55. **Gustafson, D.J., D J. Gibson & D.L. Nickrent.** 1999. Competitive relationships among populations and cultivars of a core prairie species, *Andropogon gerardii*. XVI International Botanical Congress, St. Louis, MO. (It)
56. Gibson*, D.J., E.D. Adams, J.S. Ely, D.J. Gustafson, D.N. McEwen, & T.Evans. 1999. Eighteen years of herbaceous layer recovery of a recreation area in an oak-hickory forest. Poster. Ecological Society of America, Spokane, WA. (N)
57. Adams*, E., D. J. Gibson, J. S. Ely, D.J. Gustafson, D. McEwen & T. Evans. 1998. Vegetation recovery over an 18 year period at a recreation facility. Poster. Association of Southeastern Biologists, Monroe, LA. (N)

58. **Gustafson, D.J.**, D.J. Gibson & D. L. Nickrent. 1997. Genetic characterization of *Andropogon gerardii* Vitman. (big bluestem) in the Arkansas Grand Prairie. Ecological Society of America, Albuquerque, NM. (N)
59. **Gustafson, D.J.**, M. M. Woodby & R. C. Anderson. 1995. Seventeen years of succession in two central Illinois oak forests. Poster. Illinois' Renewable Resources, Springfield, IL. (L)
60. **Gustafson, D.J.** & R. C. Anderson. 1994. Phenological and physiological response of shooting star (*Dodecatheon meadia* L.) in prairie and savanna habitats. American Institute of Biological Sciences and Botanical Society of America. Knoxville, TN. (N)
61. **Gustafson, D.J.** & R. C. Anderson. 1994. Phenological and physiological response of shooting star (*Dodecatheon meadia* L.) in prairie and savanna habitats. Midwest Ecology and Evolution Conference, DeKalb, IL. (N)

Publications (peer-reviewed):

1. Dewald, G.S., Yon, C.M., and **Gustafson, D.J.** (2025). Using eDNA to Characterize Amphibian Communities in Isolated Wetlands of the Longleaf Pine Ecosystem. *BIOS* 96:179-183. <https://doi.org/10.1893/BIOS-D-25-00015>.
2. Schmuck, M.E., DiSilvestro, M.C., and **Gustafson, D.J.** (2025). Low-tech seed enhancement technology can improve seedling establishment of Longleaf Pine understory perennial forbs. *Journal of the South Carolina Academy of Science* 23:28-35.
3. **Gustafson, D.J.**, Dix, L.A., Webster, D.P., Scott, B.K., Gustafson, I.E., Farrell, A.D., and Koenemann, D.M. (2024) Phylogeography of *Coccoloba uvifera* (Polygonaceae) sampled across the Caribbean Basin. *Diversity* 16, 562. <http://doi.org/10.3390/d16090562>.
4. **Gustafson, D.J.**, Porcher, R.D., Gramling, J., Eckert, S., and Owens, B. (2021) Long-term demography study of *Trillium pusillum* var. *pusillum* following Hurricane Hugo in 1989. *Castanea* 86: 53-60.
5. **Gustafson, Danny J.** and Alexis Gibson "Genetic Considerations in Plant Ecological Restoration." In Oxford Bibliographies in Ecology. Ed. David Gibson. New York: Oxford University Press. DOI: 10.1093/OBO/9780199830060-0076 (published 30 October 2019).
6. **Gustafson, D.J.**, Harris-Shultz, K., Gustafson, P.E., Giencke, L., Denhoff, R.C., and Kirkman, L. (2018) Seed sourcing for longleaf pine herbaceous understory restoration: little bluestem (*Schizachyrium scoparium*) and hairy lespedeza (*Lespedeza hirta*) restoration genetics. *Natural Areas Journal* 38:380-392.
7. **Gustafson, D.J.**, Woodyard, S.E., Marquez, J., Rhoad, W.D., Glitzenstein, J.S., and Gramling, J.M. (2017) Greenhouse propagation of the endangered hemiparasite *Schwalbea americana* (American Chaffseed): experimentation and botanical observations. *Native Plants Journal* 18:50-59.
8. Glitzenstein, J.S., Gustafson, D.J., Stowe, J.P., Streng, D.R., Bridgman, D.A.Jr., Fill, J.M., & Ayers, J.T. (2016) Starting a new population of *Schwalbea americana* on a longleaf pine restoration site in South Carolina. *Castanea* 81:302-313.
9. **Gustafson, D.J.** (2016) Book review of 'Native seed production manual for the Pacific Northwest' published in *Native Plants Journal* 17:134.
10. **Gustafson, D.J.**, Cruse-Sanders, J.M., Bucalo, K., Alley, H., Kunz, M., Alexander, M.L., Vankus, V., and Duplantier, M. (2016) Survey of genetic diversity and fitness of the southeastern endemic *Symphyotrichum georgianum* (Alexander) G.L. Nesom (Asteraceae) from large and small populations. *Journal of the Torrey Botanical Society* 143:274-284.

11. Herman, B., Packard, S., Pollack, C., Houseal, G., Sinn, S., Fant, J., Lewis, A.D., Wagenius, S., **Gustafson, D.J.**, Hufford, K., Allison, B., Shaw, K., Haines, S., & Daniels, C. 2014. Decisions...Decisions...How to source plant material for native plant restoration. *Ecological Restoration* 32:236-238.
12. **Gustafson DJ**, Major C, Jones D, Synovec J, Baer SG, et al. (2014) Genetic Sorting of Subordinate Species in Grassland Modulated by Intraspecific Variation in Dominant Species. *PLoS ONE* 9(3): e91511. doi:10.1371/journal.pone.0091511
13. **Gustafson, Danny J.** "Genetic Considerations in Plant Ecological Restoration." In Oxford Bibliographies in Ecology. Ed. David Gibson. New York: Oxford University Press. DOI: 10.1093/OBO/9780199830060-0076 (published 2014-03-27).
14. Baer, S.G., Gibson, D.J., **Gustafson, D.J.**, Benscoter, A.M., Reed, L.K., Campbell, R.E., Klopff, R.P., Willand, J.E., Wodika, B.R. 2013. No effect of seed source on multiple aspects of ecosystem functioning during ecological restoration: cultivars compared to local ecotypes of dominant grasses. *Evolutionary Applications* [doi:10.1111/eva.12124]
15. **Gustafson, D.J.**, Giunta, A., Jr., Echt, C.S., 2013. Extensive Clonal Growth and Strongly Biased Sex Ratios of an Endangered Dioecious Shrub, *Lindera melissifolia*. *Journal of the Torrey Botanical Society*, **140**, 133-144.
16. Beck, J., **Gustafson, D.J.** 2012. Plant source influence on *Spartina alterniflora* survival and growth in restored South Carolina salt marshes. *Southeastern Naturalist*, **11**, 747-754.
17. Echt, C.S., Demeer, D, & **Gustafson, D.J.** 2011. Patterns of differentiation among endangered pondberry populations. *Conservation Genetics*, **12**, 1015-1026.
18. **Gustafson, D.J.**, Ecological Genetics and Restoring the Tallgrass Prairie (Case Study), In Restoration Ecology, Sigurdur Greipsson. Troy University, AL. (2011)
19. Glitzenstein, J., Savereno, T.J., **Gustafson, D.J.**, & Mackie, R. 2009. Seed production and transfer: issues, guidelines and possibilities. *The Journal of the South Carolina Native Plant Society*, **3**, 8-11.
20. **Gustafson, D.J.**, Halfacre, A.C., & Anderson, R.C. 2008. Practical seed source selection for restoration projects in an urban setting: tallgrass prairie, serpentine barrens, and coastal habitat examples. *Urban Habitats* **5** (1) ISSN 1541-7115 http://www.urbanhabitats.org/v05n01/seedsource_full.html
21. Casper, B.B, Bentivenga, S.P., Baoming, J., Doherty, J.H., Edenborn, H.M., **Gustafson, D.J.** 2008. Plant-soil feedback: testing the generality with the same grasses in serpentine and prairie soils. *Ecology* **89**, 2154-2164.
22. **Gustafson, D.J.**, & Peterson, P.M. 2007. Re-examination of *Muhlenbergia capillaris*, *M. expansa*, and *M. sericea* (Poaceae: Muhlenbergiinae). *Journal of the Botanical Research Institute of Texas*, **1**, 85-89.
23. **Gustafson, D.J.**, Kilheffer, J., & Silliman, B.R. 2006. Relative impacts of *Littoraria irrorata* and *Prokelisia marginata* on *Spartina alterniflora* growth. *Estuaries and Coasts*, **29**, 639-644.
24. **Gustafson, D.J.**, & Casper, B.B. 2006. Differential host plant performance as a function of soil arbuscular mycorrhizal fungal communities: experimentally manipulating co-occurring *Glomus* species. *Plant Ecology*, **183**, 257-263.
25. Cahill, J.F. Jr., Kembel, S.W., & **Gustafson, D.J.** 2005. Differential genetic influences on competitive effect and response in *Arabidopsis thaliana*. *Journal of Ecology*, **93**, 958-967.
26. **Gustafson, D.J.**, & Latham, R.E. 2005. Is the serpentine aster, *Symphyotrichum depauperatum* (Fern.) Nesom, a valid species and actually endemic to eastern serpentine barrens? *Biodiversity and Conservation*, **14**, 1445-1452.

27. **Gustafson, D.J.**, Gibson, D.J., & Nickrent, D.L. 2005. Using local seeds in prairie restoration-data supports the paradigm. *Native Plants Journal*, **6**, 25-28.
28. **Gustafson, D.J.**, Gibson, D.J., & Nickrent, D.L. 2004. Competitive relationships of *Andropogon gerardii* (big bluestem) from remnant and restored native populations and select cultivated varieties. *Functional Ecology*, **18**, 451-457.
29. **Gustafson, D.J.**, Gibson, D.J., & Nickrent, D.L. 2004. Conservation genetics of two co-dominant grass species in the endangered grassland ecosystem. *Journal of Applied Ecology*, **41**, 389-397.
30. **Gustafson, D.J.**, & Casper, B.B. 2004. Nutrient addition affects AM fungal performance and expression of plant / fungal feedback in three serpentine grasses. *Plant and Soil*, **259**, 9-17.
31. **Gustafson, D.J.**, Romano, G, Latham, R.E., & Morton, J.K. 2003. Amplified fragment length polymorphism analysis of genetic relationships among the serpentine barrens endemic *Cerastium velutinum* Rafinesque var. *villosissimum* Pennell (Caryophyllaceae) and closely related *Cerastium* species. *Journal of the Torrey Botanical Society*, **130**, 218-223.
32. **Gustafson, D.J.**, Gibson, D.J., & Nickrent, D.L. 2002. Genetic diversity and competitive abilities of *Dalea purpurea* (Fabaceae) from remnant and restored grasslands. *International Journal of Plant Sciences*, **163**, 979- 990.
33. **Gustafson, D.J.**, Gibson, D.J., & Nickrent, D.L. 2001. Characterizing three restored *Andropogon gerardii* Vitman (big bluestem) populations established with Illinois and non-Illinois seed: established plants and their offspring. *Proceedings of the 17th North American Prairie Conference. Seeds for the Future; Roots of the Past*. Neil P. Bernstein and Laura J. Ostrander (eds.). North Iowa Area Community College, Mason City, Iowa. p.118-127.
34. **Gustafson, D.J.**, & Anderson, R.C. 2001. Comparison of phenology, photosynthetic rates, and leaf morphology of savanna and prairie populations of shooting star (*Dodecatheon meadia* L.). In: *Seeds for the Future; Roots of the Past* (Bernstein, N, Ostrander, LJ eds.), pp. 164-168. *Proceedings of the 17th North American Prairie Conference*, Northern Iowa Area Community College, Mason City, Iowa.
35. Gibson, D.J., Adams, E.D., Ely, J.S., **Gustafson, D.J.**, McEwen, D., & Evans, T.R. 2000. Eighteen years of herbaceous layer recovery of a recreation area in a mesic forest. *Journal of the Torrey Botanical Society*, **127**, 230-239.
36. **Gustafson, D.J.**, Gibson, D.J., & Nickrent, D.L. 1999. Random amplified polymorphic DNA (RAPD) variation among remnant big bluestem [*Andropogon gerardii* Vitman] populations from Arkansas' Grand Prairie. *Molecular Ecology*, **8**, 1693-1701.
37. **Gustafson, D.J.** & Anderson, R.C. 1994. Phenological and physiological response of shooting star (*Dodecatheon meadia* L.) in prairie and savanna habitats. pp. 217-221, In J. Fralish, R. Anderson, J. Ebinger, and R. Szafoni (ed.) *Proceedings of the North American conference on savannas and barrens*. Illinois State University, Normal, Illinois.
38. Anderson, R. C., Schmidt, D., Anderson, M.R. & **Gustafson, D.J.** 1994. ParkLands savanna restoration. pp. 275-277, In J. Fralish, R. Anderson, J. Ebinger, and R. Szafoni (ed.) *Proceedings of the North American conference on savannas and barrens*. Illinois State University, Normal, Illinois.

Research Reports:

1. Dewald, G.S., Yon, C.M., Gustafson, D.J. 2025. Using eDNA to Characterize Amphibian Communities in Isolated Wetlands of the Longleaf Pine Ecosystem. Final report submitted on 28 March 2025 to

Jestin Clark, Francis Marion Ranger District Office, 2967 Steed Creek Road, Huger, SC 29450.
Submitted 28 March 2025.

2. **Gustafson, D.J.** Francis Marion National Forest *Lindera melissifolia* (Walter) Blume Monitoring 2024. Final report submitted on 2 May 2024 to Jestin Clark, Francis Marion Ranger **District** Office, 2967 Steed Creek Road, Huger, SC 29450. Submitted 2 May 2024.
3. **Gustafson, D.J.**, & Yon, C. 2024. eDNA: eDNA protocol for assessing rare, threatened, and endangered amphibians in isolated wetlands of the Longleaf Pine ecosystem. Final report submitted on 4 April 2024 to Jestin Clark, Francis Marion Ranger District Office, 2967 Steed Creek Road, Huger, SC 29450. Submitted 4 April 2024.
4. **Gustafson, D.J.**, & Gustafson, P.E. 2022. Francis Marion Nation Forest *Lindera melissifolia* 2022 field survey. Final report submitted on May 6, 2022 to Francis Marion Ranger District Office, 2967 Steed Creek Road, Huger, SC 29450.
5. **Gustafson, D.J.**, Gustafson, P.E., & Harris-Shultz, K. 2016. Genetic relationships among regional sources of *Schizachyrium scoparium* and *Lespedeza hirta* growing in a common garden experiment. This final report was submitted in October 26, 2016 to Longleaf Alliance, Inc. in compliance with the conditions of the grant.
6. Overcash, J.M., Larimore, D.L., & **Gustafson, D.J.** 2015. Characterizing Scott Creek animal community composition on both sides of an earthen Edisto Beach causeway, South Carolina in 2005 and 2015. This final report was submitted in July 2015 to the Office of the Dean of the School of Science and Math, as well as the South Carolina Sea Grant Consortium who funded this research.
7. **Gustafson, D.J.**, Cruse-Sanders, J., & Duplantier, M. 2013. Genetic survey of *Symphotrichum georgianum* (Georgia aster) populations in Alabama, Georgia, North Carolina and South Carolina. This final report was submitted to the U.S. Fish and Wildlife Service (Mr. Kevin Brooks, 1875 Century Boulevard, Room 310, Atlanta, GA 30345) in fulfillment of cooperative agreement #40181AJ197.
8. **Gustafson, D.J.** 2012. Summary of Atlantic coastal plains spatial genetics research on *Lindera melissifolia*. This document was sent to the U.S. Department of the Interiors, Fish and Wildlife Services contact person in charge of managing this species (Mr. M. Scott Wiggers, Botanist, Mississippi Field Office, 6578 Dogwood View Pkwy, Jackson, MS 39213).
9. **Gustafson, D.J.** 2012. Augmentation planting for *Lindera melissifolia* (Pondberry) in select Atlantic coastal plains populations. Submitted to Fish and Wildlife Services, c/o Mr. M. Scott Wiggers, Botanist, Mississippi Field Office, 6578 Dogwood View Pkwy, Jackson, MS 39213.
10. **Gustafson, D.J.** & Beck, J. Edisto Beach Causeway Project: Scott Creek Nutrient Addition Experiment, Department of Biology, The Citadel, Charleston, SC 29409. *College of Charleston. (December 2006). Included in the Whitaker et al. Final Project Report titled, Feasibility Study to Examine Potential Hydrological and Biological Benefits from Restoring Flow of a Salt Marsh Creek at the Edisto Beach Causeway, NOAA Grant (NA03NOS4630167).
11. **Gustafson, D.J.** & Beck, J. 2005. Do Marsh Periwinkles Reduce *Spartina alterniflora* Recruitment?, Department of Biology, The Citadel, Charleston, SC 29409. *College of Charleston. Submitted to South Carolina Department of Natural Resources (November 2005).
12. **Gustafson, D.J.**, Chapman, W., Kersting, S., & Beck, J. 2005. Edisto Beach Causeway Project: Characterizing Scott Creek animal community composition on both sides of the earthen causeway (Summer 2005). Department of Biology, The Citadel, Charleston, SC 29409. *College of Charleston. Submitted to South Carolina Department of Natural Resources. Included in the Whitaker et al. Final Project Report titled, Feasibility Study to Examine Potential Hydrological and Biological Benefits from Restoring Flow of a Salt Marsh Creek at the Edisto Beach Causeway, NOAA Grant (NA03NOS4630167).
13. **Gustafson, D.J.** & Kilheffer, J. 2004. Edisto Beach Causeway Project: Initial Community Mapping Progress Report. Submitted to South Carolina Department of Natural Resources. Included in the

Whitaker et al. Final Project Report titled, Feasibility Study to Examine Potential Hydrological and Biological Benefits from Restoring Flow of a Salt Marsh Creek at the Edisto Beach Causeway, NOAA Grant (NA03NOS4630167).

14. **Gustafson, D.J.** & Nickrent, D.L. 1999. Goose Lake Prairie State Natural Area Project: *Andropogon gerardii* Vitman (big bluestem) Genetics and Gene Flow. Submitted to the Illinois Department of Natural Resources, Nature Preserves Commission.
15. **Gustafson, D. J.**, Gibson, D.J. & Nickrent, D.L. 1997. Assessment of baseline genetic data on *Andropogon gerardii* (big bluestem), *Sorghastrum nutans* (indian grass), and *Dalea purpurea* (purple prairie clover) among remnant and restored Illinois tallgrass mesic prairie and selected grass cultivars. Submitted to the Illinois Department of Natural Resources, Natural Heritage Division.
16. **Gustafson, D.J.** & Nickrent, D.L. 1996. Genetic characterization of big bluestem (*Andropogon gerardii*) from the Grand Prairie of Arkansas. Submitted to the Memphis District Corp. of Engineers, Environmental Analysis Branch.

Published Abstracts:

1. Dewald, G.S.*, Yon, C.M.*, **Gustafson, D.J.** 2025. Using eDNA to Characterize Amphibian Communities in Isolated Wetlands of the Longleaf Pine Ecosystem. Association of Southeastern Biologists (TriBeta Biology National Honor Society), Myrtle Beach, SC. Poster (N)
2. DiSilvestro, M.*, Schmuck, M.*, **Gustafson, D.J.** 2025. Designing a better seed ball: Longleaf Pine native perennial forb seedling recruitment. Association of Southeastern Biologists (TriBeta Biology National Honor Society), Myrtle Beach, SC. Poster (N)
3. Schmuck, M.*, DiSilvestro, M.*, **Gustafson, D.J.** 2024. Low-tech seed enhancement technology could improve germination and establishment of longleaf pine understory perennial forbs. Association of Southeastern Biologists, Chattanooga, TN. Poster (N)
4. Scott, B.K., Dix, L.A., Webster, D.P., Gustafson, I.E., Donnell, D.M., and **Gustafson, D.J.** 2021. Preliminary phylogeography analyses of *Coccoloba uvifera* (L.) sampled across the Caribbean Basin. Association of Southeastern Biologists, virtual meeting. Poster
5. Dix, L.A., Webster, D.P., Scott, B.K., Donnell, D.M., and **Gustafson, D.J.** 2020. A preliminary assessment of chloroplast sequences in *Coccoloba uvifera* (Polygonaceae) for use in phylogeographic analyses. Association of Southeastern Biologists, Jacksonville, FL. Poster (N)
6. Dix, L.A., Webster, D.P., Scott, B.K.*, Donnell, D.M., and **Gustafson, D.J.** 2019. Screening chloroplast genes in *Coccoloba uvifera* (Polygonaceae) for suitability for phylogeographic analyses. Southern Conference Undergraduate Research Forum, Spartanburg, SC. Poster (L)
7. Eckert, S.*, Owens, B., **Gustafson, D.J.**, Gramling, J.M., and Porcher, R.D. 2019. Long-term demography study of *Trillium pusillum* var. *pusillum* following the Hurricane Hugo in 1989. Southern Conference Undergraduate Research Forum, Spartanburg, SC. Poster (L)
8. Walker, J., Giencke, L., and **Gustafson, D.J.** 2018. Which seed sources for longleaf pine restoration? Common garden and genetic studies to inform seed zone development. 12th Biennial Longleaf Conference, Alexandria, LA. (N)
9. **Gustafson, D.J.**, Woodyard, S.E., Marquez, J., Rhoad, W.D., Glitzenstein, J.S., and Gramling, J.M. 2018. Greenhouse propagation of the endangered hemiparasite *Schwalbea americana* (American Chaffseed): experimentation and botanical studies. Poster (N)

10. Miller, M., Ganezer, J., Cudd, R.M., Gustafson, D.J., and Alberts, J. 2018. Comparing nutrients and quality of aeroponically grown lettuce versus lettuce purchased from a grocery store. Association of Southeastern Biologists, Myrtle Beach, SC. Poster (N)
11. Owens, B., Gustafson, D.J., Gramling, J.M., and Porcher, R.D. 2018. 28-year demographic study of *Trillium pusillum* var. *pusillum*. Association of Southeastern Biologists, Myrtle Beach, SC. Poster (N)
12. Mills, W.L. and Gustafson, D.J. 2018. Single nucleotide polymorphism (SNP) analysis of *Symphyotrichum georgianum* from large and small Georgia, South Carolina, and North Carolina populations. Association of Southeastern Biologists, Myrtle Beach, SC. Poster (N)
13. Owens, B., and Gustafson, D.J. 2017. 27 year demographic study of *Trillium pusillum* var. *pusillum* following Hurricane Hugo. Southern Conference Undergraduate Research Forum, Spartanburg, SC.
14. Miller, M., Ganezer, J., Gustafson, D.J., and Alberts, J. 2017. Comparing the plant quality of aeroponically grown plants versus locally purchased alternatives. Southern Conference Undergraduate Research Forum, Spartanburg, SC.
15. Mills, W.L.*, and Gustafson, D.J. 2017. Fine scale genetic structure study of small and large populations of *Symphyotrichum georgianum* (Georgia Aster): preliminary results. 31th Annual National Council on Undergraduate Research, Memphis, TN. Poster (N)
16. Mills, W.L.*, and Gustafson, D.J. 2016. Fine scale genetic structure study of small and large populations of *Symphyotrichum georgianum* (Georgia Aster). Southern Conference Undergraduate Research Forum, Spartanburg, SC.
17. Larimore, D.L.*, Overcash, J.M., and Gustafson, D.J. 2016. Effects of Coastal Development on Estuary Health in Edisto Beach, South Carolina. 30th Annual National Conference on Undergraduate Research, Asheville, NC.
18. Rhoad, W.D., Woodyard, S.E., & Gustafson, D.J. 2014. Developing *ex situ* Protocols for the Endangered American Chaffseed. Association of Southeastern Biologists, Spartanburg, SC.
19. Gustafson, D.J. 2013. Influence of dominant species seed source selection on the genetic structure of subordinate species. Natural Areas Association. Chicago, IL.
20. Gustafson, D.J., Synovec, J., Jones, D., Major, C., Gibson, D.J., & Baer, S.G. 2012. *Chamaecrista fasciculata*, *Silphium integrifolium*, and *Sorghastrum nutans* show divergence in genetic structure when grown in a background of wild collected versus cultivars of the dominant grasses. Association of Southeastern Biologists, Athens, GA.
21. Gustafson, D.J., Major, C., Jones, D., Gibson, D.J., & Baer, S.G. 2010. Testing genetic control of grassland assembly rules. Poster. Ecological Society of America, Pittsburg, PA.
22. Gustafson, D.J., Giunta, A., Jr., Deemer, D, & Echt, C. 2010. Evaluating spatial genetic structure of an endangered dioecious shrub (*Lindera melissifolia*) in South and North Carolina. Poster. Ecological Society of America, Pittsburg, PA. August 2010.
23. Jones, D., Fernandez, A, Major, C., & Gustafson, D.J. 2009. *Silphium integrifolium* genetic structure as a function of the dominant grasses seed source. Poster. Association of Southeastern Biologists, Birmingham, AL.
24. Lake, D.T., Gramling, J.M., & Gustafson, D.J. 2009. Deadly duo: ecological impacts of the Red Bay ambrosia beetle. Association of Southeastern Biologists, Birmingham, AL.

25. Major, C., Jones, D., Fernandez, A., & Gustafson, D.J. 2009. Dominant species genotypes influence subordinate species genetic structure in restored grasslands. Association of Southeastern Biologists, Birmingham, AL.
26. Gustafson, D.J., Major, C., Fernandez, A., Jones, D., Gibson, D.J., & Baer, S. 2008 Genetic control of grassland assembly rules: preliminary results. Eastern Native Grass Symposium, Columbia, SC.
27. Gustafson, D.J. 2008. Testing Soil Nutrients & Plant Genotype in Serpentine Plant – Soil Interactions. Sixth International Conference on Serpentine Ecology. College of the Atlantic, Bar Harbor, MA.
28. Giunta, A., Jr., & Gustafson, D.J. 2008. Evaluating spatial genetic structure of an endangered dioecious shrub (*Lindera melissifolia*) in South and North Carolina. Association of Southeastern Biologists, Spartanburg, SC.
29. Giunta, A., Jr., Gustafson, D.J., Deemer¹, D, & Echt¹, C.S. 2007. The Citadel and USDA Forest Service¹. Assessing the fine scale spatial genetic structure of *Lindera melissifolia* in North and South Carolina. Poster. Association of Southeastern Biologists, Columbia, SC.
30. Gustafson, D.J. 2007. Molecular ecology study of purple prairie clover in Illinois. University of Florida, IFAS, Native Wildflower Seed Production Research Symposium, Orlando, FL.
31. Gustafson, D.J. 2007. Genetic and competition studies of Big Bluestem, Indian Grass, and Purple Prairie Clover in remnant and restored Tallgrass Prairies. Symposium: Conservation Biology of Eastern Tallgrass Prairie: Integrating Issues of Management and Restoration for the 21st Century. Botanical Society of America and Plant Biology Association, Chicago, IL.
32. Beck, J. & Gustafson, D.J. 2006. Comparison of nursery purchased versus field collected *Spartina alterniflora* plants in two South Carolina common garden experiments. Poster. Coastal and Estuarine Habitat Restoration, New Orleans, LA.
33. Beck, J. & Gustafson, D.J. 2006. Plant Source Influence on *Spartina alterniflora* Growth in Restored South Carolina Marshes. Poster. Grice Marine Laboratory Student Research Colloquium, Charleston, SC.
34. Gustafson, D.J. 2006. A plant molecular ecology study of *Muhlenbergia sericea* (sweetgrass) and implications for sweetgrass restoration. Poster. Fifth Eastern Native Grass Symposium. Harrisburg, PA.
35. Beck, J. & Gustafson, D.J. 2006. Plant Source Influence on Survivorship and Vegetative Reproduction of *Spartina alterniflora* in South Carolina Marshes. Poster. Southeastern Estuarine Research Society, Ponte Vedra Beach, FL.
36. Morrow, C. & Gustafson, D.J. 2006. Does physiological integration among *Spartina alterniflora* ramets reduce the negative effects of grazers? Poster. Association of Southeastern Biologists, Gatlinburg, TN.
37. Strole, P., Sierra, E, & Gustafson, D.J. 2006. ISSR analysis of 'Sweetgrass' and two closely related species. Poster. Association of Southeastern Biologists, Gatlinburg, TN.
38. Chapman, W., Kersting, S., Beck, J., & Gustafson, D.J. 2006. Is the grass greener on the other side of the road? Characterizing primary producers, primary and secondary consumers in two marshes separated by an earthen causeway. Poster. Association of Southeastern Biologists, Gatlinburg, TN.
39. Kilheffer, J., Gustafson, D.J., & Silliman, B. 2005. Snail and insect relative impacts on *Spartina alterniflora* productivity. Poster. Society of Wetland Scientists, Charleston, SC.

40. Kilheffer, J., **Gustafson, D.J.**, & Silliman, B. 2005. Testing the relative contribution of *Littoraria irrorata* and *Prokelisia marginata* to top-down regulation of *Spartina alterniflora* productivity in a southern salt marsh. Poster. Association of Southeastern Biologists, Florence, AL.
41. Kersting, S., Sierra, S., Morrow, C., Kilheffer, J., & **Gustafson, D.J.** 2005. Testing predator-herbivore-plant interactions across the landscape: survey of *Littoraria irrorata* population structure and its impact on *Spartina alterniflora* in multiple South Carolina salt marsh communities. Poster. Southeastern Estuary Research Society, Charleston, SC.
42. Cahill, J. F., Jr., Kembel, S.W. & **Gustafson, D.J.** 2004. Differential genetic influence on competitive effect and response in *Arabidopsis thaliana*. Ecological Society of America. Portland, OR.
43. **Gustafson, D.J.**, & Latham, R.E. 2004. Is the serpentine aster, *Symphyotrichum depauperatum* (Fern.) Nesom, a valid species and actually endemic to eastern serpentine barrens? Association of Southeastern Biologists, Memphis, TN.
44. **Gustafson, D.J.**, & Casper, B.B. 2002. Soil nutrients influencing plant/soil community feedback. Ecological Society of America. Tucson, AZ.
45. **Gustafson, D.J.**, D.J. Gibson & D.L. Nickrent. 1999. Competitive relationships among populations and cultivars of a core prairie species, *Andropogon gerardii*. XVI International Botanical Congress, St. Louis, MO.
46. Gibson, D.J., E.D. Adams, J.S. Ely, **D.J. Gustafson**, D.N. McEwen, & T.Evans. 1999. Eighteen years of herbaceous layer recovery of a recreation area in an oak-hickory forest. Poster. Ecological Society of America, Spokane, WA.
47. Adams, E., D. J. Gibson, J. S. Ely, **D.J. Gustafson**, D. McEwen & T. Evans. 1998. Vegetation recovery over an 18 year period at a recreation facility. Poster. Association of Southeastern Biologists, Monroe, LA.
48. **Gustafson, D.J.**, D.J. Gibson & D. L. Nickrent. 1997. Genetic characterization of *Andropogon gerardii* Vitman. (big bluestem) in the Arkansas Grand Prairie. Ecological Society of America, Albuquerque, NM.
49. **Gustafson, D.J.** & R. C. Anderson. 1995. Habitat induced morphological and physiological variation of shooting star (*Dodecatheon meadia* L.). Poster. Ecological Society of America, Snowbird, UT.
50. **Gustafson, D.J.**, M. M. Woodby & R. C. Anderson. 1995. Seventeen years of succession in two central Illinois oak forests. Poster. Illinois' Renewable Resources, Springfield, IL.
51. **Gustafson, D.J.** & R. C. Anderson. 1994. Phenological and physiological response of shooting star (*Dodecatheon meadia* L.) in prairie and savanna habitats. American Institute of Biological Sciences and Botanical Society of America. Knoxville, TN.
52. **Gustafson, D.J.** & R. C. Anderson. 1994. Phenological and physiological response of shooting star (*Dodecatheon meadia* L.) in prairie and savanna habitats. Midwest Ecology and Evolution Conference, DeKalb, IL.

Manuscripts in Preparation/Review:

1. Mills, W.L., and **Gustafson, D.J.** 2016. Fine scale genetic structure study of small and large populations of *Symphyotrichum georgianum* (Georgia Aster). *Castanea (in prep)*.

Society Membership:

1. Botanical Society of America
2. Ecological Society of America
3. Society for Ecological Restoration
4. British Ecological Society
5. Association of Southeastern Biologists
6. Natural Areas Association
7. Torrey Botanical Society
8. Beta Beta Beta Biological Honor Society, Tau Nu Chapter
9. South Carolina Academy of Science

Professional Service:

1. Manuscripts reviewed for the following journals:
 - Annals of Botany
 - American Journal of Botany
 - American Journal of Plant Science
 - American Midland Naturalist
 - Applied Vegetation Science
 - Australian Journal of Experimental Agriculture
 - Biochemical Genetics
 - Biochemical Systematics and Ecology
 - Botany
 - Canadian Journal of Botany
 - Castanea
 - Conservation Genetics
 - Crop Science
 - Diversity
 - Ecological Restoration
 - Ecoscience
 - Ecosystems
 - Estuarine, Coastal and Shelf Science
 - Evolutionary Ecology
 - Evolutionary Applications
 - Florida Entomologist
 - Forests
 - Functional Ecology
 - Global Change Biology
 - HortScience
 - International Journal of Plant Science
 - Journal of Applied Ecology
 - Journal of Ecology
 - Journal of Coastal Research
 - Journal of Medical and Biological Sciences
 - Journal of Science and Technology

Journal of the Science of Food and Agriculture
Journal of the Torrey Botanical Society
Journal of Vegetation Science
Marine Ecology Progress Series
Molecular Ecology
Native Plants Journal
Northeastern Naturalist
Oecologia
Oxford University Press
Oxford Bibliographies in Ecology
Plant Biosystems
Plant Ecology
Plant and Soil
Plants
PLoS ONE
Perspectives in Plant Ecology, Evolution, and Systematics
Rangeland Ecology and Management
Restoration Ecology
Southeastern Naturalist
Sustainability
Systematics and Biodiversity
The Plant Journal

2. Research proposals reviewed for the following organizations:
 - United States Department of Agriculture
 - National Science Foundation
 - Grant Agency of the Academy of Science of the Czech Republic
 - National Oceanic and Atmospheric Administration
 - Portuguese Foundation for Science and Technology
 - Georgia Sea Grant
 - National Science Grant Review for the Polish-Lithuanian Funding Initiative.
3. Invited workshop panelist (WK-34) - Knowledge Cafe: Application of emerging topics in plant ecology and evolution to selection of native plant materials for restoration and ecosystem management. Ecological Society of America Annual Meeting, New Orleans, LA. (2018)
4. Invited panel expert at the Regulated Wild: A Sweetgrass Panel Discussion at the College of Charleston, Avery Center. (2008)
5. Invited panel expert on native grass conservation genetics. 5th Eastern Native Grass Symposium, Harrisburg, PA. (2006)
6. Scientific advisor to the A.C.E. Basin National Estuary Research Reserve (NERR) (2005 – present)
7. Association of Southeastern Biologists, Conservation Committee and Ecological Society of America Southeastern Chapter Odum Award Committee
8. Reviewed chapters 1-4 for Ricklefs Economy of Nature 7th Edition (2011)

Major University Service or Activity:

1. Faculty Senate (elected) Representative (2015-present)
2. Faculty Tenure and Promotion Committee (2023-present)
3. Chair Biology 5 Year Review and Head of Biology Search Committee (fall 2020)
4. Faculty Excellence Committee (2015-2019)
5. School of Science and Math Faculty Grants Committee (2013-2018), Chair 2015-2016
6. Sabbaticals Committee (2024-present), (2012-2015), Chair 2012-2013
7. Research (2005 – 2012), SFSSM Research (2020-2024)
8. Faculty Council (2004 – 2008)
9. Scholarship (2004-2005)
10. Outside reviewer for Dr. Kevin Potter's promotion to full professor, North Carolina State University (7/18/19).
11. National Council for Accreditation of Teacher Education (NCATE) review (2007)
12. Developed application and served as representative to the Piedmont South Atlantic Coast Cooperative Ecosystem Study Unit of the national Cooperative Ecosystem Study Unit program.
13. Wrote a letter of support for Dr. Brenda Casper (University of Pennsylvania) for the Distinguished Ph.D. in Teaching and Mentoring. (2007)
14. Outside reviewer for Dr. Mark Bassinger tenure and promotion, Barton College. (2006)
15. Wrote a letter of support for Dr. Brenda Casper (University of Pennsylvania) for the Distinguished Ph.D. in Teaching and Mentoring. (2007)
16. Coauthored Dr. Richard D. Porcher, Jr. nomination for the South Carolina Environmental Awareness Award. (2007)
17. Lead salt marsh kayak field trip for the Society of Wetland Scientists meeting. (2005)
18. Wrote a letter of support for Mr. John Luce IV (Marine Corp Air Station Environmental Manager) for the United States Fish and Wildlife Service's Conservation Award. (2011)
19. Citadel Undergraduate Research Conference (chair 2007-2009)
20. Biology Department Equipment Committee (2011- present; Chair 2011-2016)
21. Biology Department Post-tenure review committee (chair 2013)
22. Faculty club advisor: Fly Fishing (2005-2007), Ultimate (2013)
23. Search Committee Chairs (Plant Taxonomist/Field Botanist, Biology Department Head, Physiology)
24. Administer public activities on Apron Island. (2004 – present)