

CURRICULUM VITAE

SAARA J. DEWALT

EDUCATION

1996-2003 PhD in Biological Sciences, Minor in Experimental Statistics, Louisiana State
1990-1994 University Honors AB in Biology, Brown University

PROFESSIONAL APPOINTMENTS

2019– **Chair**, Department of Biological Sciences, Clemson University
2018–2019 **Interim Chair**, Department of Biological Sciences, Clemson University
2017– **Professor**, Department of Biological Sciences, Clemson University
2011–2017 **Associate Professor**, Department of Biological Sciences, Clemson University
2005–2011 **Assistant Professor**, Department of Biological Sciences, Clemson University
2003–2005 **Huxley Research Instructor**, Department of Ecology and Evolutionary Biology, Rice University

ADMINISTRATIVE EXPERIENCE

July 2019-Present

Chair of the Department of Biological Sciences at Clemson University

- The Department of Biological Sciences has BA, BS, MS (including an online, non-thesis), and PhD degrees in Biological Sciences; BS, MS, and PhD degrees in Microbiology; and MS and PhD degrees in Environmental Toxicology.
- Biological Sciences is the largest department on campus with over 1700 undergraduate majors, 75 on-campus MS and PhD students in the 3 graduate programs, 200 students in the online MS in Biological Sciences for Science Educators.
- We teach over 43,000 Student Credit Hours per year.
- The Department has 53 faculty (37 tenure-track and 16 teaching-focused) and over 20 staff.
- The Department has an annual budget of ~\$12M of which \$1.5M is generated by the Department.
- Annual grant and contract expenditures total \$2.9-\$3.1M and have been increasing steadily over the past three years.
- The Department occupies space in 4 buildings across campus, three of which are under departmental management.

Significant accomplishments under my leadership

Strategic Planning

- Developed, with the faculty, staff, and graduate students, and am implementing a five-year strategic plan (2021-2026) called BioSciFORWARD that aligns with the College of Science and Clemson University.
 - Vision: to be recognized nationally and internationally for our excellence in discovery, inquiry-based learning, and developing biological literacy, while promoting equity and individual growth.
- Led the Engagement working group to develop objectives, strategies, and metrics for external engagement (science teacher professional development, K-12 outreach, community outreach, industry partnerships) for the College of Science, during this year's strategic plan refresh.

Talent Development

- Successfully hired 14 faculty and 19 staff over the past 4 years:
 - 2 Full Professors, 2 Associate Professors, 4 Assistant Professors, and 6 Lecturers
 - 3 administrative staff, 1 Building Manager, 2 Graduate Student Services Coordinators, 1 Director of Undergraduate Academic Advising, 5 Academic Advisors, 4 teaching lab staff, 1 Fiscal Analyst, 1 Accountant, and 1 Post-award Grant Support Accountant

- Oversaw tenure and promotion of 8 faculty
 - 2 Assistant Professors to Associate Professor with tenure
 - 2 Associate Professors to Full Professor
 - 1 Lecturer to Senior Lecturer
 - 3 Senior Lecturers to Principal Lecturer
- Supervised, conducted annual evaluations, and developed and promoted the careers of 52 faculty and 20 staff. Provided visionary leadership to help mid-career personnel achieve next steps in their professional development.
- Instituted national searches for teaching-focused faculty, established voting rights for them within the Department, and worked across the College to promote the value of all faculty to the University.
- Worked extensively with HR and College leadership to create new staff positions, modify reporting structures, promote staff, and create career ladders within the Department.

Revenue Generation and Philanthropy

- Increased revenue from Summer School courses by identifying key courses to offer and promote across the University, setting a clear policy for enrollment minimums, and working closely with our Financial Analyst to monitor course enrollments.
- Raised over \$100,000 in undergraduate scholarships, \$7000 in graduate fellowships, and \$28,000 in unrestricted funds to support strategic initiatives in the Department of Biological Sciences. Worked extensively with the College of Science Development Officer.
- Successfully stewarded over \$52,000 per year in endowment funds.

Strategic Operations

- Oversaw planning and fundraising to renovate over 3000 ft² for the Clemson Herbarium and Vertebrate Collection (Department's Bob and Betsy Campbell Museum of Natural History), 4000+ ft² of teaching lab space, 7000+ ft² of research space, 1000 ft² of greenhouse space for the teaching collection of plants, and 3500 ft² of office space. Worked closely with Building Manager, Fiscal Analyst, AVP for Academic Operations, and Development Officer to prioritize renovations.
- Worked as part of planning committee for a new Science building for teaching and research that will be anchored by the Department of Biological Sciences.
- Created transparent policies and guidelines, established faculty mentoring program, led the department through adoption of new leadership positions and committee structures within the unit's Bylaws, and led the Department through revision of Tenure, Promotion and Reappointment Guidelines that included guidelines for promotion to a third rank of teaching-focused faculty (Principal Lecturer).
- Navigated COVID shutdown, research pauses, shifting all courses and labs online, and remote work policies.

Raising the Research Profile

- Helped faculty secure major grants and awards:
 - Phase 2 of an NIH Centers for Biomedical Research Excellence (COBRE) grant to the Clemson Eukaryotic Pathogen Innovation Center (EPIC) for \$11M over 5 years that includes 5 Biological Sciences faculty
 - 3 NSF CAREER awards – the Department's first CAREER awards
 - 1 NIH Maximizing Investigators' Research Award (MIRA) R35 grant
 - 1 NIH R01 grant – the "gold standard" for individual grants
 - several other large NSF and NIH grants
- Focused on increasing research productivity (grants, publications), resulting in an increase in the Academic Analytics SRI percentile of the Department from 45 in 2019 to 54 in 2022, with an aspirational goal of 73 by 2026.

Developing Internal Leadership

- Created 4 new appointed undergraduate leadership positions and led the Department through

incorporating them into the bylaws: Undergraduate Program Coordinator (UPC) for Biological Sciences, UPC for Microbiology, Undergraduate Programs Assessment Coordinator (UPAC), and Introductory Biology Coordinator (IBC).

- Created a strong internal leadership team including an Associate Chair focused on increasing research productivity, 3 Graduate Program Coordinators, 2 UPCs, UPAC, and IBC.
- Sponsored faculty and staff professional development in the President's Leadership Initiative, CU Grow staff development program, and the TIGERS ADVANCE Trailblazers leadership program.

Innovation in Undergraduate Advising and Curricula

- Created an all-professional advisor model for the Department by securing 4 additional staff to support the Biological Sciences Advising Center. We now have 1 Director, 5 professional academic advisors, and 1 Registration Coordinator who support our 1700+ Biological Sciences and Microbiology majors. Moved all advising off of faculty. Our advising center has served as the model for professional advising at Clemson.
- Led the department through curriculum changes to the Biological Sciences and Microbiology undergraduate degrees to incorporate changes to General Education, increase opportunities for signature/experiential learning experiences, strengthen student learning outcomes, and allow students to progress without bottlenecks.

Strengthening the Graduate Program

- Oversaw the review of 4 graduate programs and implemented changes suggested by external reviewers.
- Incorporated the graduate program in Environmental Toxicology fully into the Department.
- Increased 9-month Graduate Teaching Assistant stipends by \$2000/year and focused on philanthropic efforts to create more graduate fellowships. Stipends are competitive with similar public universities.
- Established a culture within the department of faculty supporting graduate students with summer stipends such that we are approaching 75% of PhD students supported through the summer.
- Established a regular schedule of graduate courses and ensured excellent staffing of those courses.
- Creating a Professional Development Course and dedicating resources for a Grants-in-Aid-of-Research program as part of that course. Established philanthropic support for this program as well.
- Established a biostatistics course, responsive to the needs of the graduate students.

Developing Industry Partnerships

- Advocated successfully for a College-level staff advisor to connect Life Sciences students to industry partners for internships, professional development, lunch and learns, and networking.
- Attended SCbio annual conference in 2019, 2021, 2023 – making connections with potential industry partners and students.

Increasing Diversity, Equity, and Inclusion

- Began a DEI Working Group in the Department composed of faculty, staff, and graduate student volunteers who make recommendations on policies, procedures, and practices within the department that could be improved.
- Led discussions of the documentary *Race: The Power of Illusion* among departmental faculty and staff in July and August 2020.
- Encouraged the Scholarship & Awards Committee to simplify applications and nomination procedures to make it easier for students to apply for awards.
- Encouraged the Graduate Advisory Committee to drop the requirement for the GRE and to use a variety of experiences as an undergraduate as evidence of potential success in graduate school.
- Sponsored a staff member to be trained as a Qualified Administrator of the Intercultural Development Inventory.
- Implemented aspects of the College's Inclusive Excellence Plan in the Department.

LEADERSHIP DEVELOPMENT

Atlantic Coast Conference-Academic Leaders Network (2023)

- Selected as one of 5 academic leaders from Clemson to build leadership and facilitate collaboration among ACC university leaders.
- Will attend three weekends of collaboration at UNC-Chapel Hill, Syracuse University, and Duke University over the next year.

President's Leadership Institute (PLI; 2021-22)

- Selected as member of 25 faculty and staff leaders across campus for PLI cohort 6.
- Leadership training and increased awareness of university operations on campus and at satellite campuses from President James P. Clements, Chief of Staff Max Allen, Provost Robert Jones, Vice-President of Finance and Operations Anthony Wagner, and numerous other university leaders.

American Association of Colleges and Universities (AAC&U) Institute on Reframing Institutional Transformation for Non-Tenure Track STEM Faculty (July 2021)

- Led a team of 5 faculty from the College of Science over the four-day institute to examine ways to improve the institutional conditions by which non-tenure track STEM faculty can advance professionally.
- Our work led our Department and the College of Science to include non-tenure faculty as voting members of the units and led to the Dean's creation of Distinguished Lecturer faculty supplements
- We continue to work on ways to advance non-tenure faculty at Clemson.

Academic Impressions webinars (2018-)

- Women's Leadership Success in Higher Education – virtual 2-day conference
- Conflict Management
- Inclusive Hiring Best Practices: Removing Barriers and Mitigating Search Committee Bias
- Using Storytelling to Bolster Unrestricted Giving
- Foundations in Budgeting for Department Chairs

TIGERS ADVANCE Trailblazers: Provost's Mentoring Initiative for Faculty (2017–2018)

- Selected as member of the inaugural group of faculty selected for leadership training to increase gender equity, retention, and support.
- Mentored by Provost Robert (Bob) Jones.

TIGERS ADVANCE Pacesetter Leadership Initiative (2017–2018)

- Led development of a mentoring plan for the College of Science with three other Trailblazers in the College of Science.
- Mentored by Dean Richard Goodstein of Clemson's College of Architecture, Arts and Humanities.

UNIVERSITY SERVICE

Executive Mentor for TIGERS ADVANCE Trailblazers participants, Clemson (2019-20, 2020-21, 2021-22)

Member of the search-and-screening committee for the VP of Enrollment Management, Clemson (2019-2020)

Member of the search-and-screening committee for the Director of the Office of Global Engagement's International Services, Clemson (2018-2019)

Faculty Senate Alternate representing the College of Science, Clemson (April 2018–Sept 2018; stepped down after becoming Interim Chair)

Reviewer for Awards of Excellence for faculty in College of Behavioral, Social and Health Sciences, Clemson (2018)

Elected member of the Clemson University Graduate Advisory Committee, faculty representative from the College of Agriculture, Forestry, and Life Sciences (2015) and the College of Science, Clemson (2016–2018; stepped off when became Interim Chair in October 2018)

Member of the search-and-screening committee for the Lloyd and Hilliard Endowed Professorships, Clemson (2015)

Appointed member of the graduate strategic planning committee for *ClemsonForward* (2015)

- First phase of what became the *ClemsonForward* strategic plan for the University.
- Worked with graduate faculty across the university to discuss ideas to strengthen graduate education.

Nomination committee for the Barry M. Goldwater Scholarship, Clemson (2009–2012, 2014–2016)
Nomination committee for the Astronaut Fellowship, Clemson (2014, 2015, 2016)
Organization and leadership of an Ecology faculty group at Clemson and [website](#) (2012–2018)
Member of the search-and-screening committee for Assistant Professor of Aquatic/Wetland Ecology in the School for Agricultural, Forest, and Environmental Sciences, Clemson (2012)
Review committee of the undergraduate major in Wildlife and Fisheries Biology, Clemson (2007)

DEPARTMENTAL SERVICE

Chair of the Graduate Advisory Committee (GAC) for the Department of Biological Sciences and Biological Sciences Graduate Program Coordinator (2011–2018; stepped off when became Interim Chair)

- GAC is composed of the three appointed Graduate Program Coordinators for Biological Sciences, Microbiology, and Environmental Toxicology, two elected representatives for the Biological Sciences graduate program, two elected representatives of the Microbiology graduate program, and one elected representative for the Environmental Toxicology graduate program.
- Had indirect supervision of the Graduate Student Services Program Coordinator staff member who supported the three on-campus graduate programs.
- Prepared an extensive self-study for a review of all of the Department's graduate programs in 2018 and led the external review including hosting 3 external reviewers in 2019.
- Oversaw admission to the MS and PhD programs in Microbiology and Biological Sciences – usually a cohort of ~15 students.
- Conducted the annual assessment of the Biological Sciences and Microbiology MS and PhD programs.
- Evaluated graduate student progress in these four graduate degree programs and wrote annual progress report letters for 40+ students each year.
- Made teaching assignments for ~65 graduate GTAs each semester.
- Evaluated all graduate teaching assistants each year
- Led the implementation of a rotation system for the graduate programs in 2018. Developed policies and procedures for admissions and lab rotations.

Chair, Search Committee for two positions in Ecology and/or Evolution (2016–2017)

- Led a 7-person committee through the screening of 400+ applications.
- Successfully hired top two candidates and onboarded them in 2017 and 2018.

Elected member of the 3 Professor Initial Review Committee of the Tenure, Promotion, and Reappointment Committee (2018; stepped off when became Interim Chair)

Elected member of the Biological Sciences Chair's Advisory Committee (2012–2018)

Elected member of the Biological Sciences Scholarships and Awards Committee (2015–2018; stepped off when became Interim Chair)

Elected member of two-year review committee of the Chair of Biological Sciences (2015)

Elected member of the search-and-screening committee for Chair and Professor of Biological Sciences, Clemson (2012–2013)

Elected member of an *ad hoc* undergraduate curriculum committee (2011-2012)

- Worked as one of 8 elected members tasked with revising the Biological Sciences BA and BS degrees.
- Compared our curricula to Biology degrees at other universities.
- Used NSF's Vision and Change report to identify the student learning outcomes we wanted for graduates of our programs.
- Chosen as the spokesperson for the committee. Led the Department through a vote to pass the suggested changes to the curricula. Worked with the Curriculum Committee chair for the Department on the necessary changes.
- Changes were approved at the University level in December 2012.

Biological Sciences Seminar Series Committee member (2006–2013) and Chair (2006–2007 and 2009–2010)

Undergraduate advisor to 25-40 students/year majoring in Biological Sciences (2005–2018)

PROFESSIONAL SERVICE

President, [Association for Tropical Biology and Conservation](#) (ATBC; President Elect 2019, President 2020, Past-President 2021)

- ATBC's mission is to foster the scientific understanding and conservation of tropical environments.
- As President in 2020, led the ATBC membership through a revision of the bylaws to diversify the leadership structure and ensure greater regional representation on the Council.
- Led through the onset of the COVID pandemic, including decisions to cancel the annual conference slated to take place in Cartagena, Colombia. Organized a three-day, online meeting of the ATBC's Council.
- As Past-President, served as chair of Nominations Committee and selected Honorary Fellows, 6 candidates for Council, and 2 candidates for President.

Councilor, Association for Tropical Biology and Conservation (2015–2017)

- Served as member of Strategic Initiatives Committee, developing ways to implement the strategic plan.
- Developed the [ATBC Mentoring Circle Program](#), which continues to this day.
- Coordinated the ATBC Mentoring Circle Program (2017–2018) involving 22 mentors and 45 mentees living in over 12 time zones.

Mentor, ATBC Mentoring Circle (2021, 2022)

Subject Editor, *Biotropica* (2012–2018), the journal of the Association for Tropical Biology and Conservation

- Handled approximately 10 manuscripts per year.

External reviewer for the Department of Biological Sciences, University of Arkansas-Fayetteville, 2022

AWARDS, FELLOWSHIPS, AND HONORS

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| 2017 | Board of Trustees Award for Excellence, Clemson University |
| 2010 | Sigma Xi Outstanding Young Investigator of the Year, Clemson Chapter |
| 2003 | Edgerton Award for Research in Botany, Louisiana State University |
| 2002–2003 | Graduate Dissertation Fellowship, Louisiana State University |
| 1999 | Organization for Tropical Studies Mellon IV Ecosystem Fellowship |
| 1999–2000 | Graduate School Scholars Enhancement, Louisiana State University |
| 1998 | Association for Women in Science Educational Foundation Citation of Merit |
| 1997 | Bernard Lowy Fund award for Neotropical Research |
| 1996–2000 | Board of Regents Graduate Fellowship, Louisiana State University |
| 1994–1995 | Fulbright fellowship for ethnobotanical work in Bolivia |
| 1994 | BSA Young Botanist Award, Botanical Society of America |

RESEARCH FUNDING

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| 2015–2020 | USDA National Institute for Food and Agriculture. Plant Health and Production and Plant Products: Controlling Weedy and Invasive Plants (\$500,000) Genotypic specificity in plant-herbivore interactions and its application to management of an invasive weed. Award No. 2015-67014-22956. PI with co-PIs P. Agudelo (Clemson) and M.T. Johnson (US Forest Service-Hawaii). |
| 2018 | Clemson Caribbean Initiative Seed Grant (\$10,000). Carbon footprint of Hurricane Maria on Caribbean Islands. PI with co-PIs Skip Van Bloem (Clemson) and Stefanie Whitmire (Clemson). |
| 2016–2019 | USDA Forest Service (\$127,642) Intraspecific functional trait variation among populations of common species of the longleaf pine ecosystem. PI . |
| 2016-2019 | USDA Forest Service Cost-Sharing Agreement (\$11,002) Genetic structure in native plants: foundational information for developing plant material transfer zones. PI . |
| 2013 | Clemson University Research Completion Grant (\$2,848) Investigating the introduction history of an invasive tropical shrub. PI . |
| 2012–2014 | National Park Service (\$23,500) Implement assessment protocol for the rare Carolina Bogmint population at Congaree National Park. CESU (PMIS 156253). PI with co-PI J. Walker. |

- 2010–2011 Panama Secretaría Nacional de Ciencia, Tecnología e Innovación [National Secretary for Science, Technology and Innovation] (\$99,845) Composición y almacenaje de carbon en bosques secundarios de Panamá [Composition and carbon sequestration in secondary forests of Panama]. **Co-PI** with D. H. Dent and O. Lopez.
- 2009–2010 National Science Foundation (\$62,000) RAPID: Acquisition of high-resolution LiDAR for Barro Colorado Nature Monument, Panama. Award # 0939907. **Co-PI** with J. Dalling (PI) and S.P. Hubbell (co-PI).
- 2006–2010 USDA National Research Initiative Biology of Weedy and Invasive Species (\$153,656) Effects of land-use history, fragmentation, and distance from mainland on invasive plant composition and abundance on reservoir islands. **PI**.
- 2000–2002 National Science Foundation Doctoral Dissertation Improvement grant (\$9,984. Comparison of genetic variation and breeding systems of *Clidemia hirta* (Melastomataceae) between native and introduced populations. **Graduate Student** with PI M. Blackwell (standing in for J.S. Denslow).

INTERNAL CURRICULUM GRANT

- 2012–13 **Lead** on a Clemson University College of Agriculture, Forestry, and Life Sciences Curriculum Innovation Program award to innovate the curricular offerings in Ecology at the undergraduate and graduate Levels. Led to creation of the [Ecology at Clemson](#) website, alignment across several departments in curricular offerings, and eventual hiring of new faculty in 3 departments (Biological Sciences, Plant and Environmental Sciences, Forestry and Environmental Conservation). Award value: \$14,655.

CITATION INDICES (AS OF 03/25/2023)

[Google Scholar](#) Citations: 7066, h-index: 36, i10-index: 45

PEER-REVIEWED PUBLICATIONS AND BOOK CHAPTERS (N = 57)

*indicates current or former graduate student

- Rüger, N., and numerous co-authors including **S. J. DeWalt**. In press. Successional shifts in tree demographic strategies in wet and dry Neotropical forests. *Global Ecology and Biogeography*.
- Oliveira, S. A.*, **S. J. DeWalt**, and P. Agudelo. 2023. Feasibility of *Ditylenchus gallaeformans* as a biological control agent for invasive *Miconia crenata*. *Nematology* 25:227–237.
- Taylor, B. N.*, E. Stedman, S. J. Van Bloem, S. L. Whitmire, and **S. J. DeWalt**. 2023. Widespread stem snapping but limited mortality caused by category 5 hurricane on the Caribbean Island of Dominica. *Forest Ecology and Management* 532: [DOI: 10.1016/j.foreco.2023.120833](#).
- Jakovac, C. C., and numerous co-authors including **S. J. DeWalt**. 2022. Strong floristic distinctiveness across Neotropical successional forests. *Science Advances* 8: [DOI: 10.1126/sciadv.abn1767](#).
- Estrada-Villegas, S., P. R. Stevenson, O. López, **S. J. DeWalt**, L. S. Comita, and D. H. Dent. 2022. Animal seed dispersal recovery during passive restoration in a forested landscape. *Philosophical Transactions of the Royal Society B* 378: [DOI: 10.1098/rstb.2021.0076](#).
- DeWalt, S. J.**, J. S. Denslow, and M. T. Johnson. 2022. Ecology and control of naturalized Melastomataceae. Pages 761-789 in R. Goldenberg, F. A. Michelangeli, and F. Almeda, editors. *Systematics, Evolution and Ecology of Melastomataceae*. Springer, Switzerland.
- Oliveira, S. A.*, J. A. Baeza, P. Agudelo, and **S. J. DeWalt**. 2022. Observations on the population genetic structure of the leaf galling nematode, *Ditylenchus gallaeformans*. *Phytopathology* 112:881–887.
- Poorter, L., and numerous co-authors including **S. J. DeWalt**. 2021. Multi-dimensional tropical forest recovery. *Science* 374:1370–1376.
- Poorter, L., and numerous co-authors including **S. J. DeWalt**. 2021. Functional recovery of secondary tropical forests. *Proceedings of the National Academy of Sciences* 118: [DOI: 10.1073/pnas.2003405118](#).
- Rüger, N., R. Condit, D. H. Dent, **S. J. DeWalt**, S. P. Hubbell, J. W. Lichstein, O. R. Lopez, C. Wirth, and C. E. Farrior. 2020. Demographic trade-offs predict tropical forest dynamics. *Science* 368:165–168.

11. Powers, J. S., E. M. Bruna, A. Campos-Arceiz, P. D. Sampaio, **S. J. DeWalt**, L. G. Lohmann, and R. A. Zahawi. 2020. Tropical biology and conservation in the time of the COVID-19 pandemic. *Biotropica* 52:399-399.
12. Jones, I. L., **S. J. DeWalt**, O. R. Lopez, L. Bunnefeld, Z. Pattison, and D. H. Dent. 2019. Above- and belowground carbon stocks are decoupled in secondary tropical forests and are positively related to forest age and soil nutrients respectively. *Science of the Total Environment* 697 DOI: [10.1016/j.scitotenv.2019.133987](https://doi.org/10.1016/j.scitotenv.2019.133987)
13. Poorter, L., and numerous co-authors including **S. J. DeWalt**. 2019. Wet and dry tropical forests show opposite successional pathways in wood density but converge over time. *Nature Ecology & Evolution* 3:928–934.
14. Rozendaal, D. M. A., and numerous co-authors including **S. J. DeWalt**. 2019. Biodiversity recovery of Neotropical secondary forests. *Science Advances* 5: DOI:[10.1126/sciadv.aau3114](https://doi.org/10.1126/sciadv.aau3114)
15. Woods, C. L.*, **S. J. DeWalt**, C. L. Cardelús, K. E. Harms, J. B. Yavitt, and S. J. Wright. 2018. Fertilization influences the nutrient acquisition strategy of a nomadic vine in a lowland tropical forest understory. *Plant and Soil* 431:389–399.
16. Gei, M., and numerous co-authors including **S. J. DeWalt**. 2018. Legume abundance along successional and rainfall gradients in Neotropical forests. *Nature Ecology & Evolution* 2:1104–1111.
17. Slik, J. W. F., and numerous co-authors including **S. J. DeWalt**. 2018. A phylogenetic classification of the world's tropical forests. *Proceedings of the National Academy of Sciences* 115:1837–1842.
18. Siemann, E., **S. J. DeWalt**, J. W. Zou, and W. E. Rogers. 2017. An experimental test of the EICA Hypothesis in multiple ranges: invasive populations outperform those from the native range independent of insect herbivore suppression. *Annals of Botany* 9:1–13.
19. Chazdon, R. L., and numerous co-authors including **S. J. DeWalt**. 2016. Carbon sequestration potential of second-growth forest regeneration in the Latin American tropics. *Science Advances* 2: e1501639.
20. **DeWalt, S. J.**, K. Ickes, and A. James. 2016. Forest and community structure of tropical sub-montane rain forests on the island of Dominica, Lesser Antilles. *Caribbean Naturalist* Special Issue 1:116–137.
21. Heartsill Scalley, T., **S. J. DeWalt**, F. Korysko, G. Van Laere, K. Jacobs, S. Panka, and J. Torres. 2016. Communication from the Information Sharing Working Group: Agreement for data sharing among Caribbean Foresters. *Caribbean Naturalist* Special Issue 1:30–34.
22. Poorter, L., and numerous co-authors including **S. J. DeWalt**. 2016. Biomass resilience of Neotropical secondary forests. *Nature* 530:211–214.
23. **DeWalt, S. J.**, S. A. Schnitzer, L. F. Alves, F. Bongers, R. J. Burnham, Z. Cai, W. P. Carson, J. Chave, G. B. Chuyong, F. R. C. Costa, C. E. N. Ewango, R. V. Gallagher, J. J. Gerwing, E. Gortaire Amezcua, T. Hart, G. Ibarra-Manríquez, K. Ickes, D. Kenfack, S. G. Letcher, M. J. Macía, J.-R. Makana, A. Malizia, M. Martínez-Ramos, J. Mascaro, C. Muthumperumal, S. Muthuramkumar, A. Nogueira, M. P. E. Parren, N. Parthasarathy, D. R. Pérez-Salicrup, F. E. Putz, H. Romero-Saltos, M. S. Reddy, M. N. Sainge, D. Thomas, and J. van Melis. 2015. Biogeographical patterns of liana abundance and diversity. Pages 131–146 in S. A. Schnitzer, F. Bongers, F. E. Putz, and R. J. Burnham, editors. *Ecology of Lianas*. Wiley-Blackwell, Oxford, UK.
24. Slik, J. W. F., and numerous co-authors including **S. J. DeWalt**. 2015. An estimate of the number of tropical tree species. *Proceedings of the National Academy of Sciences (USA)* 112:7472–7477.
25. **DeWalt, S. J.**, B. N. Taylor*, and K. Ickes. 2015. Density-dependent survival in seedlings differs among woody life-forms in tropical wet forests of a Caribbean island. *Biotropica* 47:310–319.
26. Woods, C. L.*, C. L. Cardelús, and **S. J. DeWalt**. 2015. Microhabitat associations of vascular epiphytes in a wet tropical forest canopy. *Journal of Ecology* 103:421–430.
27. Taylor, B. N.*, K. Ickes, and **S. J. DeWalt**. 2014. Seed removal by an introduced scatter-hoarder on a Caribbean Island. *Caribbean Journal of Science* 48:9–17.
28. Dent, D. H., **S. J. DeWalt**, and J. S. Denslow. 2013. Secondary forests of central Panama increase in similarity to old-growth forest over time in shade tolerance but not species composition. *Journal of Vegetation Science* 24:530–542.

29. Woods, C. L.*, and **S. J. DeWalt**. 2013. The conservation value of secondary forests for vascular epiphytes in central Panama. *Biotropica* 45:119–127.
30. Park, I.*, **S. J. DeWalt**, E. Siemann, and W. E. Rogers. 2012. Differences in cold hardiness between introduced populations of an invasive tree. *Biological Invasions* 14:2029–2038.
31. Mascaro, J., G. P. Asner, D. H. Dent, **S. J. DeWalt**, and J. S. Denslow. 2012. Scale-dependency of aboveground carbon accumulation in secondary forests in Central Panama: a test of the intermediate peak hypothesis. *Forest Ecology and Management* 276:62–70.
32. **DeWalt, S. J.**, E. Siemann, and W. E. Rogers. 2011. Geographic distribution of genetic variation among native and introduced populations of Chinese tallow tree, *Triadica sebifera*. *American Journal of Botany* 98:1128–1138.
33. **DeWalt, S. J.**, S. A. Schnitzer, J. Chave, F. Bongers, R. J. Burnham, Z. Q. Cai, G. Chuyong, D. B. Clark, C. E. N. Ewango, J. J. Gerwing, E. Gortaire, T. Hart, G. Ibarra-Manríquez, K. Ickes, D. Kenfack, M. J. Macía, J.-R. Makana, M. Martínez-Ramos, J. Mascaro, S. Moses, H. C. Muller-Landau, M. P. E. Parren, N. Parthasarathy, D. R. Pérez-Salicrup, F. E. Putz, H. Romero-Saltos, and D. Thomas. 2010. Annual rainfall and seasonality predict pan-tropical patterns of liana density and basal area. *Biotropica* 42:309–317.
34. Powers, J. S., R. Montgomery, E. C. Adair, F. Q. Brearley, **S. J. DeWalt**, C. T. Castanho, J. Chave, E. Deinert, J. U. Ganzhorn, M. E. Gilbert, J. A. Gonzalez-Iturbe, S. Bunyavejchewin, H. R. Grau, K. E. Harms, A. Hiremath, S. Iriarte-Vivar, E. Manzano, A. A. de Oliveira, L. Poorter, J.-B. Ramanamanjato, C. Salk, A. Varela, G. D. Weiblen, and M. T. Lerda. 2009. Decomposition in tropical forests: a pan-tropical study of the effects of litter type, litter placement and mesofaunal exclusion across a precipitation gradient. *Journal of Ecology* 97:801–811.
35. Denslow, J. S., and **S. J. DeWalt**. 2008. Exotic plant invasions in tropical forests: patterns and hypotheses. Pages 409–426 in W. P. Carson and S. A. Schnitzer, editors. *Tropical Forest Community Ecology*. Blackwell Scientific, Oxford, UK.
36. Newton, C. H., L. R. Nelson, **S. J. DeWalt**, E. A. Mikhailova, C. J. Post, M. A. Schlautman, S. K. Cox, W. C. Bridges, and K. C. Hall. 2008. Solarization for the control of *Pueraria montana* (kudzu). *Weed Research* 48:394–397.
37. Zou, J., E. Siemann, W. E. Rogers, and **S. J. DeWalt**. 2008. Decreased resistance and increased tolerance to native herbivores of the invasive plant *Sapium sebiferum*. *Ecography* 31:663–671.
38. Thaxton, J., **S. J. DeWalt**, and W. J. Platt. 2007. Spatial patterns of regeneration after Hurricane Andrew in two south Florida fringe mangrove forests. *Florida Scientist* 70:148–156.
39. **DeWalt, S. J.** 2006. Population dynamics and potential for biological control of an exotic invasive shrub in Hawaiian rainforests. *Biological Invasions* 8:1145–1158.
40. **DeWalt, S. J.**, K. Ickes, R. Nilus, K. E. Harms, and D. F. R. P. Burslem. 2006. Liana habitat associations and community structure in a Bornean lowland tropical forest. *Plant Ecology* 136:203–216.
41. **DeWalt, S. J.**, E. Siemann, and W. E. Rogers. 2006. Microsatellite markers for an invasive tetraploid tree, Chinese tallow (*Triadica sebifera*). *Molecular Ecology Notes* 6:505–507.
42. Gerwing, J. J., S. A. Schnitzer, R. J. Burnham, F. Bongers, J. Chave, **S. J. DeWalt**, C. E. N. Ewango, R. Foster, D. Kenfack, M. Martínez-Ramos, M. Parren, N. Parthasarathy, D. R. Pérez-Salicrup, F. E. Putz, and D. W. Thomas. 2006. A standard protocol for censusing lianas. *Biotropica* 38:256–261.
43. Schnitzer, S. A., **S. J. DeWalt**, and J. Chave. 2006. Censusing and measuring lianas: a quantitative comparison of the common methods. *Biotropica* 38:581–591.
44. Siemann, E., W. E. Rogers, and **S. J. DeWalt**. 2006. Rapid adaptation of an invasive plant and its insect herbivores. *Proceedings of the Royal Society of London (B)* 273:2763–2769.
45. Zou, J., W. E. Rogers, **S. J. DeWalt**, and E. Siemann. 2006. The effect of Chinese tallow tree (*Sapium sebiferum*) ecotype on soil-plant system carbon and nitrogen processes. *Oecologia* 150:272–281.
46. **DeWalt, S. J.** 2005. Effects of natural enemies on tropical plant invasions. Pages 459–483 in D. F. R. P. Burslem, M. Pinard, and S. E. Hartley, editors. *Biotic Interactions in the Tropics*. Cambridge University Press, Cambridge, UK.

47. DeWalt, S. J., and J. Chave. 2004. Structure and biomass of four lowland Neotropical forests. *Biotropica* 36:7–19.
48. DeWalt, S. J., J. S. Denslow, and J. L. Hamrick. 2004. Biomass allocation, growth, and photosynthesis of genotypes from the native and introduced ranges of the tropical shrub *Clidemia hirta*. *Oecologia* 138:521–531.
49. DeWalt, S. J., J. S. Denslow, and K. Ickes. 2004. Natural-enemy release facilitates habitat expansion of the invasive tropical shrub *Clidemia hirta*. *Ecology* 85:471–483.
50. DeWalt, S. J., and J. L. Hamrick. 2004. Genetic variation of introduced Hawaiian and native Costa Rican populations of an invasive tropical shrub, *Clidemia hirta* (Melastomataceae). *American Journal of Botany* 91:1155–1162.
51. Hartley, M. K., S. J. DeWalt, W. E. Rogers, and E. Siemann. 2004. A comparison of arthropod assemblages on native trees versus the introduced Chinese tallow tree (*Sapium sebiferum*). *Texas Journal of Science* 56:369–382.
52. DeWalt, S. J., S. K. Maliakal, and J. S. Denslow. 2003. Changes in vegetation structure and composition along a tropical forest chronosequence: implications for wildlife. *Forest Ecology and Management* 182:139–151.
53. Ickes, K., S. J. DeWalt, and S. Thomas. 2003. Resprouting of woody saplings following stem snap by wild pigs in a Malaysian rain forest. *Journal of Ecology* 91:222–233.
54. Ickes, K., S. J. DeWalt, and S. Appanah. 2001. Effects of native pigs (*Sus scrofa*) on woody understorey vegetation in a Malaysian lowland rain forest. *Journal of Tropical Ecology* 17:191–206.
55. DeWalt, S. J., S. A. Schnitzer, and J. S. Denslow. 2000. Density and diversity of lianas along a chronosequence in a central Panamanian tropical forest. *Journal of Tropical Ecology* 16:1–19.
56. Bourdy, G., S. J. DeWalt, L. R. Chávez de Michel, A. Roca, E. Deharo, V. Muñoz, L. Balderrama, C. Quenevo, and A. Gimenez. 2000. Medicinal plants uses of the Tacana, an Amazonian Bolivian ethnic group. *Journal of Ethnopharmacology* 70:87–109.
57. DeWalt, S. J., G. Bourdy, L. R. Chávez de Michel, and C. Quenevo. 1999. Ethnobotany of the Tacana: quantitative inventories of two permanent plots of northwestern Bolivia. *Economic Botany* 53:237–260.

INVITED BOOK REVIEWS (N = 4)

1. DeWalt, S. J. 2013. Review of *Community Ecology* by G. G. Mittelbach. *Quarterly Review of Biology* 88:237–238.
2. DeWalt, S. J. 2013. Review of *Encyclopedia of Invasive Species: From Africanized Honey Bees to Zebra Mussels, Volumes 1 and 2* by S. L. Woodward and J. A. Quinn and *Biological Invasions: Economic and Environmental Costs of Alien Plant, Animal, and Microbe Species* Second Edition, edited by D. Pimentel. *Quarterly Review of Biology* 88: 37–38.
3. DeWalt, S. J. 2011. Review of *Fifty Years of Invasion Biology*, edited by D. Richardson. *Frontiers of Biogeography* 3:52–53.
4. DeWalt, S. J. 2010. Review of *Biological Control of Tropical Weeds using Arthropods*, edited by R. Muniappan, G. V. P. Reddy, and A. Raman. *Quarterly Review of Biology* 85:95.

OTHER SCHOLARLY PUBLICATIONS (N = 2)

1. Ickes, K., S. J. DeWalt, and S. Appanah. 1999. Pigs in a Malaysian lowland rain forest: effects on understorey vegetation. *Inside CTFS Newsletter* 11–13.
2. *Tacana: Conozcan Nuestros Árboles, Nuestras Hierbas [Tacana: Know Our Trees, Our Herbs]*. 1999. La Paz, Bolivia: Centro de Información para el Desarrollo (Book coordinated with G. Bourdy).

MANUSCRIPTS IN REVIEW (N = 4)

1. van der Sande, M. T., and numerous co-authors including S. J. DeWalt. Submitted December 2022. Functional diversity changes during tropical forest succession in resource-poor but not in resource-rich environments.

2. Schorn, M. T., and numerous co-authors including **S. J. DeWalt**. Revision submitted January 2023. Tree demographic strategies largely overlap across succession in Neotropical wet and dry forest communities.
3. Elsy, A. D., M. Pfeifer, I. L. Jones, **S. J. DeWalt**, O. R. Lopez, D. H. Dent. Submitted January 2023. Incomplete recovery of tree community composition and rare species after 120 years of tropical forest succession in Panama.
4. Slik, J. W. F., and numerous co-authors including **S. J. DeWalt**. Submitted March 2023. Maximum tree height covaries with wind dispersal in closed canopy forests.

INVITED WORKSHOP, WORKING GROUP, OR SMALL CONFERENCE

- 2014 New Perspectives on Climbing Plants, Linnean Society of London, London, UK (organizer: N. Rowe)
- 2013 Forest Management, Climate Change and Biodiversity: Advancing an Understanding of Caribbean Forest Dynamics and Creating Long-term Regional Networks, Santo Domingo, Dominican Republic (organizer: T. Heartsill-Scaley)
- 2009 Secondary Forests in the Neotropics, Morelia, Mexico (organizers: R. L. Chazdon, M. Willig, M. Uriarte)
- 2008 Invasive Plants in the Tropics, ARC-NZ Research Network for Vegetation Function, Macquarie University, Sydney, Australia (organizer: B. D. Hardesty)
- 2006 Invasive Plants: Practical Problems and Research Opportunities workshop, Indiana University, Bloomington, IN (organizers: K. Clay and S. L. Flory)
- 2005, 2006 Liana Ecology Working Group, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA (organizers: S. Schnitzer and R. Burnham)

INVITED SEMINARS

- 2017 Tyson Research Center, Washington University, St. Louis, MO
- 2014 Tri-County Technical College, Pendleton, SC
- 2012 Department of Biology, University of Puerto Rico-Mayagüez
- 2011 Clemson Chapter of Sigma Xi Awards Banquet
- 2010 Department of Ecology, Evolution, and Behavior, Univ. Minnesota-St. Paul
- 2009 Department of Ecosystem Science and Management, Texas A&M
- 2009 Center for Tropical Forest Science, Panama City, Panama
- 2008 Curriculum in Ecology, University of North Carolina-Chapel Hill
- 2007 Department of Biology and Geology, University of South Carolina-Aiken
- 2006 Department of Biology, College of Charleston
- 2005 Department of Horticulture, Clemson University
- 2005 Department of Biological Sciences, University of Houston
- 2005 Department of Biological Sciences, Clemson University
- 2003 Department of Ecology and Evolutionary Biology, Rice University

PRESENTATIONS (IN ALL CASES THE FIRST AUTHOR WAS THE PRESENTER)

- 2018 **DeWalt, S. J.** Ecological footprint of Hurricane Maria on Dominica. Clemson University Research Symposium.
- 2017 **DeWalt, S. J.**, P. Agudelo, M. T. Johnson, S. Azevedo de Oliveira, H. Boatwright. Genotypic specificity in plant-herbivore interactions and its application to management of an invasive weed. USDA NIFA Project Director meeting, Washington, D.C.
- 2017 Azevedo de Oliveira, S., H. G. Boatwright, P. M. Agudelo, and **S. J. DeWalt**. *Ditylenchus gallaeformans*: a potential biological control agent for invasive plant *Clidemia hirta*. Society of Nematologists, Williamsburg, VA.
- 2017 **DeWalt, S. J.** and K. Ickes. Relationships between diversity and composition of the seedling, liana, and tree communities of lower montane forest on the island of Dominica, West Indies. Association for Tropical Biology and Conservation, Mérida, Mexico.

- 2017 **DeWalt, S. J.** Tropical forest dynamics in the Caribbean. Clemson University Research Symposium.
- 2016 **DeWalt, S. J.** What do we know about the role of enemy release in plant invasions? Symposium talk at the Ecological Society of America, Ft. Lauderdale, FL.
- 2016 **DeWalt, S. J.** Morphological and genetic variation in native and introduced *Clidemia hirta*. Association for Tropical Biology and Conservation, Montpellier, France.
- 2016 **DeWalt, S. J.** Genetic reconstruction of the introduction history of an invasive tropical plant. Clemson University Research Symposium.
- 2015 **DeWalt, S. J.** From where art thou, *Clidemia hirta*? Tracking down the native source of a dominant invader of oceanic islands. Association for Tropical Biology and Conservation, Honolulu, HI.
- 2014 **DeWalt, S. J.** Global patterns of liana abundance and diversity. New Perspectives on Climbing Plants, Linnean Society, London, UK.
- 2014 **DeWalt, S. J.** Genetic reconstruction of the introduction history of the invasive plant *Clidemia hirta*. Invasion Genetics: The Baker and Stebbins Legacy Symposium, Asilomar Conference Center, CA.
- 2013 **DeWalt, S. J.**, and C. L. Woodworth. Genetic reconstruction of the introduction history of the invasive plant *Clidemia hirta*. Association for Tropical Biology and Conservation, San José, Costa Rica.
- 2012 Woods, C. L. and **S. J. DeWalt**. Habitat partitioning of vascular epiphytes within tropical tree canopies. Oral presentation: Ecological Society of America Conference, Portland, Oregon, USA.
- 2012 Woods, C. L., and **S. J. DeWalt**. Habitat partitioning of epiphytes within tropical tree canopies. Southeastern Ecology and Evolution Conference, Clemson, SC. *Awarded best oral presentation
- 2012 Zoellner-Kelly, D. C., and **S. J. DeWalt**. To measure or to estimate species richness: a cautionary tale. Southeastern Ecology and Evolution Conference, Clemson, SC.
- 2011 **DeWalt, S. J.**, K. Ickes, and B. N. Taylor. Determinants of seedling survivorship in tropical rainforest on the island of Dominica, Lesser Antilles. Ecological Society of America, Austin, TX.
- 2011 Zoellner-Kelly, D. C., and **S. J. DeWalt**. On the edge: quantifying the response of *Lonicera japonica* and *Albizia julibrissin* to fragmentation in southeastern USA piedmont forests. Ecological Society of America Annual Meeting, Austin, TX.
- 2011 Woods, C. L., and **S. J. DeWalt**. Fertilizer-induced changes in nutrient content and root morphology in a hemi-epiphytic aroid, Panama. Southeastern Ecology and Evolution Conference, Auburn, AL.
- 2010 **DeWalt, S. J.**, D. H. Dent, and J. S. Denslow. Convergence in species and functional composition of secondary forests over time in central Panama. Ecological Society of America, Pittsburgh, PA.
- 2010 Martin, A. R., S. C. Thomas, **S. J. DeWalt**, K. Ickes, and E. R. Stedman. Comparative ecophysiology of Caribbean and mainland Neotropical trees. Ecological Society of America, Pittsburgh, PA.
- 2010 Zoellner-Kelly, D. C., and **S. J. DeWalt**. Greater heterogeneity of light levels on islands contribute to differences in woody plant species richness between reservoir islands and mainland sites. Ecological Society of America, Pittsburgh, PA.
- 2010 **DeWalt, S. J.**, and D. Zoellner. Are edges of forest fragments more invasible than interiors? Observational and experimental studies on reservoir islands. Weed Science Society of America, Denver, CO.
- 2009 Woods, C. L., and **S. J. DeWalt**. Tropical canopy epiphyte succession in Panama. Ecological Society of America, Albuquerque, NM.
- 2008 **DeWalt, S. J.**, and D. Zoellner. Susceptibility of reservoir islands to invasion by exotic plants. Ecological Society of America, Milwaukee, WI.
- 2008 Park, I., **S. J. DeWalt**, E. Siemann, and W. E. Rogers. Range expansion potential of four populations of Chinese tallow tree (*Triadica sebifera*) throughout South Carolina. Ecological Society of America, Milwaukee, WI.
- 2008 Zoellner, D., and **S. J. DeWalt**. How do geographic location and island size affect reservoir island woody plant species composition, richness, and diversity? Ecological Society of America, Milwaukee, WI.
- 2007 Park, I., **S. J. DeWalt**, E. Siemann, and W. E. Rogers. Effect of winter conditions on germination of four Chinese tallow tree genotypes in coastal, midlands, and upstate areas of South Carolina. Ecological Society of America, San Jose, CA.

- 2007 Newton, C. H., L. R. Nelson, **S. J. DeWalt**, E. A. Mikhailova, and C. J. Post. An alternative to herbicides for controlling kudzu in riparian zones and other high risk areas. 9th Annual Southeast Exotic Plant Pest Council Conference. Athens, GA.
- 2006 **DeWalt, S. J.** Effects of land-use history, fragmentation, and distance from mainland on invasive plant composition and abundance on reservoir islands. Weed Science Society of America, San Antonio, TX.
- 2006 **DeWalt, S. J.**, E. Siemann, and W.E. Rogers. Geographic distribution of genetic variation in introduced populations of Chinese tallow tree. Southeastern Population Ecology and Evolutionary Genetics, Greensboro, NC.
- 2006 Park, I., and **S. J. DeWalt**. Limits to invasion of Chinese tallow tree related to genetic and environmental factors. Southeastern Population Ecology and Evolutionary Genetics, Greensboro, NC.
- 2006 **DeWalt, S. J.**, E. Siemann, and W.E. Rogers. Geographic distribution of genetic variation in introduced populations of Chinese tallow tree. Ecological Society of America, Memphis, TN.
- 2005 **DeWalt, S. J.**, E. Siemann, and W.E. Rogers. Genetic reconstruction of the introduction of Chinese tallow tree to the United States. Southeastern Ecology, Population Genetics, and Evolution, Hendersonville, NC.
- 2004 **DeWalt, S. J.**, E. Siemann, and W.E. Rogers. Genetic reconstruction of the introduction of Chinese tallow tree to the United States. Ecological Society of America, Portland, OR.
- 2003 **DeWalt, S. J.**, J. S. Denslow, and J. L. Hamrick. Biomass allocation, growth, and photosynthesis of genotypes from the native and introduced ranges of an invasive tropical shrub. Ecological Society of America, Savannah, GA.
- 2003 **DeWalt, S. J.**, J. S. Denslow, and J. L. Hamrick. Do genetic differences account for changed behaviour of the invasive tropical shrub *Clidemia hirta* (Melastomataceae) between native and introduced ranges? Association for Tropical Biology and Conservation, Aberdeen, Scotland.
- 2002 **DeWalt, S. J.** Determinants of liana density and biomass at regional and local scales. Symposium, Association for Tropical Biology, Panama City, Panama.
- 2001 **DeWalt, S. J.**, K. Ickes, and J. S. Denslow. Test of the release-from-natural-enemies hypothesis using the invasive shrub *Clidemia hirta* (Melastomataceae). British Ecological Society, Warwick, England.
- 2001 Ickes, K., **S. J. DeWalt**, and R. Nilus. Liana abundance and diversity in three lowland forest types of northern Borneo. British Ecological Society, Warwick, England.
- 2001 **DeWalt, S. J.**, K. Ickes, and J. S. Denslow. Test of the release-from-natural-enemies hypothesis using the invasive shrub *Clidemia hirta* (Melastomataceae). Ecological Society of America, Madison, WI.
- 2001 Denslow, J. S., **S. J. DeWalt**, and L. L. Battaglia. Ecology of weeds in tropical and temperate forests. Association for Tropical Biology. Bangalore, India.
- 2000 **DeWalt, S. J.**, and K. Ickes. Effects of light and fertilizer addition on the invasive shrub *Clidemia hirta* (Melastomataceae) in Costa Rica. Ecological Society of America, Snowbird, UT.
- 1999 **DeWalt, S. J.**, S. A. Schnitzer, and J. S. Denslow. Density and diversity of lianas along a chronosequence in a central Panamanian tropical forest. Ecological Society of America, Spokane, WA.
- 1997 **DeWalt, S. J.**, T. J. Killeen, R. E. Gullison, and J. S. Denslow. Dominance and diversity in one-hectare plots and Gentry strip transects in tropical forests of northwestern Bolivia. Association for Tropical Biology, San José, Costa Rica.

PRESS

Clemson Media: [DeWalt's collaborative research on tree diversity in tropical forests featured in Science Advances](#)

Clemson Media: [Study reshapes the floral relationships between the world's tropical forests](#)

Environmental Monitor: [Secondary Forests Key to Mitigating Climate Change](#)

Huffington Post: [Regrowing Rain Forests May Help Curb Climate Change More Than We Thought](#)

Clemson Media: [Carbon capture is substantial in secondary tropical forests](#)

Clemson Media: [Clemson scientist's research on tropical forests featured in Nature](#)

Clemson Media: [Clemson scientist chasing invasive plant around the world](#)

Clemson Media: [Clemson scientists, collaborators working to restore longleaf pine forests](#)

OUTREACH OR PUBLIC PRESENTATIONS

Talk to the SC Native Plant Society, "Natural history notes about Dominica, Nature Isle of the Caribbean", February 16, 2021.

COURSES TAUGHT AND OTHER TEACHING EXPERIENCE

Clemson University

Biology of Plants (BIOL 3040; lecture for 70–160 undergraduate students and coordination of 4–8 sections of the lab BIOL 3080)

F 2005–2011, 2015

Community Ecology (BIOL 8020; lecture and discussion for 7–15 graduate and advanced undergraduates)

F 2006, F 2008, Sp 2011, F 2012, F 2014, F 2016, F 2018

GTA Colloquium (BIOL 8130; 1 credit, co-taught to train new Graduate TAs for 18-25 students)

F 2017-2021

Food Ecology (BIOL 4930; Senior Seminar capstone course for 12 undergraduate students)

F 2009

Readings in Biology – Ecology section (BIOL 8070; 1 credit P/F course; discussion of current journal articles)

Sp 2012, 2013, 2014, 2018; F 2017

Readings in Biology – Plant Biology and Ecology (BIOL 8070; 1 credit P/F course; discussion of current journal articles)

F 2014, Sp 2015

Tropical Biodiversity Maymester on Dominica (guest faculty)

May 2005, 2008

Rice University

Advanced Ecology (lecture and discussion course, focus on Community Ecology)

Sp 2005

Ecology (lecture course for 53 students)

Sp 2004

Organization for Tropical Studies, Undergraduate Semester Abroad Program, Costa Rica

Resource person at La Selva Biological Station (two lectures and leader of a field project)

October 10–16, 2004

FORMER GRADUATE STUDENTS

Samara Azevedo de Oliveira, PhD program in Plant and Environmental Sciences, Clemson University, August 2021.

Biology and genetic variability of the leaf galling nematode *Ditylenchus gallaeformans*.

- Currently a postdoc in Paula Agudelo's lab at Clemson University

Danielle C. Zoellner-Kelly, PhD program in Biological Sciences, Clemson University, May 2016. Consequences of fragmentation for woody plant communities: A study of reservoir islands.

- Was a Research Associate at Kellogg Biological Station in Michigan

- Currently the owner of Idle Awhile Farm & Forage in Michigan

Carrie L. Woods, PhD program in Biological Sciences, Clemson University, August 2013. Determining the factors that influence the distribution and community structure of vascular epiphytes at multiple scales.

- Currently an Associate Professor in Biology at the University of Puget Sound

Benton Taylor, MS in Biological Sciences, Clemson University, August 2010. Seed removal by the Red-rumped Agouti, *Dasyprocta leporina*, on a Caribbean island.

- Finished a PhD program in Ecology, Evolution, and Environmental Biology at Columbia University in 2018;

Postdoc at the Smithsonian Environmental Research Center in Maryland

- Currently an Assistant Professor in Organismic and Evolutionary Biology at Harvard University

Isaac Park, MS in Plant and Environmental Sciences, Clemson University, May 2009. Potential for introduced-range expansion of Chinese tallow tree (*Triadica sebifera*) in the southeastern United States.

- Finished a PhD in Geography at University of Wisconsin-Milwaukee
- Currently an Assistant Project Scientist and Co-PI on an NSF grant at University of California-Santa Barbara

CURRENT GRADUATE STUDENTS

Jason Joines, PhD program in Biological Sciences (entered Fall 2013)

FORMER GRADUATE STUDENT COMMITTEES

*Served as the official committee chair because the research advisor had left

Lauren Stoczynski, PhD in Biological Sciences, Clemson University, May 2022

Linton Arneaud, PhD at the University of West Indies (served as External Examiner), June 2020

Kylie Smith, PhD in Biological Sciences, Clemson University, August 2019

Kaitlyn Hanley, MS in Biological Sciences, Clemson University, May 2019*

Sofía Muñoz, PhD in Entomology, Clemson University, August 2018

Christie Sampson, PhD in Biological Sciences, Clemson University, August 2018*

Michael Carlo, MS in Biological Sciences, Clemson University, May 2018

Axel Acevedo Morales, MS in Forest Resources, Clemson University, December 2016

Geraldine Derroire, PhD student at Bangor University and Swedish University of Agricultural Sciences (served as External Examiner), June 2016

Timothy Shearman, PhD in Forest Resources, Clemson University, May 2016

Kylie Smith, MS in Biological Sciences, Clemson University, August 2015

Sergio Marchant-Rojas, PhD in Biological Sciences, Clemson University, December 2014*

Oyuna Yadamsuren, PhD in Entomology, Clemson University, August 2014

Sam Crickenberger, PhD in Biological Sciences, Clemson University, May 2014*

Carrie Wells, PhD in Biological Sciences, Clemson University, May 2014

Katie Keck, M.S in Wildlife and Fisheries Biology, Clemson University, May 2014

Christie Sampson, MS in Biological Sciences, Clemson University, December 2013

Simon Schreier, MS in Plant and Environmental Sciences, August 2013

Kirk Parmenter, PhD in Biological Sciences, Clemson University, August 2012

Anna Sugiyama, PhD in Plant Biology, University of Georgia, May 2012

Lisa Nicole Cox, MS in Biological Sciences, Clemson University, August 2011

Robert Tompkins, PhD in Plant and Environmental Sciences, Clemson University, May 2011

Casey Newton, MS in Forestry and Natural Resources, Clemson University, August 2007

Kelly Gunnell, MS in Zoology, Clemson University, August 2006

Lisa Mann, MS in Ecology and Evolutionary Biology, Rice University, May 2006

CURRENT GRADUATE STUDENT COMMITTEES

Daniel Malagon, PhD student in Biological Sciences with Sharon Bewick, Clemson University

Megan Novak, PhD student in Biological Sciences with Kyle Barrett, Clemson University

UNDERGRADUATE HONORS THESIS STUDENTS

Lucy Rummler, May 2016, Morphological and genetic comparisons of native and introduced populations of *Clidemia hirta*. Clemson Honors College funding

Chelsea Woodworth, May 2012, Phylogeography of native and introduced populations of the invasive shrub *Clidemia hirta*. Clemson Honors College funding

Olivia Decroes, May 2012, Functional leaf traits of native and exotic lianas: testing the empty niche hypothesis. Clemson Honors College funding

Brittany Jones, May 2010, Drought tolerance in two epiphytes: *Polypodium polypodioides* and *Tillandsia usneoides*. Clemson Honors College and SC Life (HHMI) funding

Rachel Glenn, May 2009, Ecology and population genetics of *Lonicera japonica* on reservoir islands. Clemson Honors College and SC Life (HHMI) funding

UNDERGRADUATE RESEARCH STUDENTS

Lucy Rummler, Fall 2014, Genotyping-by-Sequencing of populations of *Tephrosia virginiana*

Colleen Burns (U. Arkansas), Summer 2014, Visualization of light data from Dominica.

REU SITE: Research Experience for Undergraduates in Collaborative Data Visualization Applications

Kate Allison, Spring 2013, Population dynamics of a bottomland hardwood herb

Lydia Krause, Summer 2012, Investigating the introduction history of an invasive tropical shrub, *Clidemia hirta*.

EUREKA! Program for incoming honors students

Tim Mulliger, Fall 2010 and Spring 2011, Interactive effects of drought and nitrogen availability in growth of resurrection fern, *Pleopeltis polypodioides*

Vincent James, Fall 2009 and Spring 2010, Resistance and tolerance to herbivory of native and invasive lianas

Blake Ellison, Spring 2008, Growth comparisons in native and exotic woody vines

Joshua Freitag, Spring 2008, Tannin analysis of predated and non-predated *Albizia julibrissin* seeds

Niles Brinton, Summer 2008, Effect of soil pH on woody plant species richness and abundance in forest fragments.

EUREKA! program for incoming honors students

Justin Brown, Fall 2007, Analysis of light levels on reservoir islands

SUMMER PROGRAM FOR RESEARCH INTERNS (SPRI) FOR RISING HIGH SCHOOL SENIORS

Alexis Carr, 2009, Soil moisture and nutrient content analysis on the edges and interiors of mainland sites and islands at Lake Richard B. Russell

Alanna Slack, 2008, *Albizia julibrissin* seed predation: The effects of *Bruchidius terrenus* abundance and spatial autocorrelation

Austin Grant, 2007, How extensive are edge effects on reservoir islands?

REVIEWER FOR FUNDING AGENCIES

Panel member for grant proposals:

NSF Population and Community Ecology (pre-proposals and full proposals)

NSF Doctoral Dissertation Improvement Grants in Population and Evolutionary Processes

Ad hoc reviewer for grant proposals:

NSF Population and Evolutionary Processes

NSF Ecological Biology

NSF Population and Community Ecology

NSF Long-term Research in Environmental Biology (LTREB)

Graduate Women in Science/Eloise Gerry Fellowship

Nouragues Station in French Guiana

Strategic Environmental Research and Development Program (SERDP)

PROFESSIONAL SOCIETIES

Member, Association for Tropical Biology and Conservation, ATBC (2000–)

Member, Ecological Society of America, ESA (1997–)

Member, Sigma Xi (1994–2001, 2009–)

OTHER TRAINING

Fall 2001 Organization for Tropical Studies: *Advanced Neotropical Ecology* in Costa Rica, Panama, Peru, Brazil

Fall 1992 School for International Training course: *Comparative Ecology* in Ecuador

LANGUAGES

Spanish – very good reading, understanding, writing, speaking

AD HOC REVIEWER FOR JOURNALS

Acta Oecologica

American Journal of Botany

Annals of Botany

Applied Vegetation Science

Austral Ecology

Biodiversity

Biodiversity and Conservation

Biological Control

Biological Invasions

Biotropica

BMC Ecology

Botanical J. of the Linnean Society

Canadian Journal of Botany

Diversity and Distributions

Ecography

Ecology

Ecology Letters

Ecosphere

Evolutionary Ecology

Forests

Forest Ecology and Management

Functional Ecology

Global Change Biology

International Journal of Plant Biology

Journal of Applied Ecology

Journal of Biogeography

Journal of Ecology

Journal of Experimental Botany

Journal of Heredity

Journal of Tropical Ecology

Journal of Vegetation Science

Natural Areas Journal

Oecologia

Oikos

Perspectives in Plant Ecology, Evolution and Systematics

Plant Ecology

Restoration Ecology