

Barnabas H. Daru

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APPOINTMENTS

2023- **Assistant Professor**, Stanford University.
2018-22 **Assistant Professor & Herbarium Curator**, Texas A&M University Corpus Christi, TX
2014-16 **Lecturer**, University of Pretoria, South Africa.

EDUCATION

2016-18 **Postdoctoral Fellow**, Harvard University
2012-15 **Ph.D. in Botany**, University of Johannesburg, South Africa
2010-12 **M. Sc. in Botany**, University of Johannesburg, South Africa
2003-07 **B.Sc. Hons**, University of Jos, Nigeria

GRANTS AND FELLOWSHIPS (TOTAL = \$1,314,792)

2021-23 NSF DBI (**Lead PI**), phyloregion, computational infrastructure for biogeographic regionalization and macroecology in the R computing environment (**\$585,050**)
2022-24 Texas Parks and Wildlife (**co-PI**), A multi-taxa assessment of the Ingleside Sandsheet Pond habitat to inform and support conservation (**\$384,301**)
2020-23 NSF DEB (**PI**), Leveraging historical collections and new surveys to characterize foundational shifts in vital symbioses in the threatened Arctic (**\$143,676**)
2019-23 NSF DEB (**subaward**), Digitization TCN: Collaborative: American Crossroads: Digitizing the vascular flora of the south-central US (**\$42,245**)
2016-18 Harvard University Postdoctoral Fellowship, Extinction risk, biotic interactions and spatial trends of phenological diversity using herbarium records (**\$135,000**)
2015-16 South African NRF (**Lead PI**), Mangrove transcriptomics (**\$9300**)
2015-16 Genome Research Institute, University of Pretoria, South Africa (**\$4500**)
2014 South African National Research Foundation Doctoral Fellowship (**\$8200**)
2014 South African National Research Foundation Travel Grant (**\$3000**)
2003-07 Nigerian Petroleum Corporation Undergraduate Fellowship (**\$1912**)

PUBLICATIONS

(53 papers; Students and Postdoctoral Scholars underlined, Citations = 3164, H-index = 30)

[2024]

53. Minev-Benzecry, S. & **Daru, B.H.** Climate change alters the future of natural floristic regions of deep evolutionary origins. ***Nature Communications*** (accepted).
52. Gross, C.P., Wright, A.M. & **Daru, B.H.** A global biogeographic regionalization for butterflies. ***Philosophical Transactions B*** doi: 10.1098/rstb.2023.0211 (accepted)
51. Markley, P.T., Gross, C.P. & **Daru, B.H.** The changing biodiversity of the Arctic flora in the Anthropocene. ***American Journal of Botany*** (accepted).
50. **Daru, B.H.** (2024) Predicting undetected native vascular plant diversity at a global scale. ***Proceedings of the National Academy of Sciences USA*** 121: e2319989121
49. **Daru, B.H.** (2024) A global database of butterfly species native distributions. ***Ecology*** e4462 doi:10.1002/ecy.4462

[2023]

48. Daru, B.H. & Rodriguez, J. (2023) Mass production of unvouchered records fails to represent global biodiversity patterns. **Nature Ecology & Evolution** 7: 816–831.
47. Daru, B.H. & Rock, B.M. (2023) Reorganization of seagrass communities in a changing climate. **Nature Plants** 9: 1034–1043.
46. Gumbs, R., Chaudhary, A., Daru, B.H., Faith, D.P., Forest, F., Gray, C.L., Kowalska, A., Lee, W.S., Pellens, R., Pollock, L.J., Rosindell, J., Scherson, R.A. & Owen, N.R. Indicators to monitor the status of the Tree of Life. **Conservation Biology** doi: 10.1111/cobi.14138

[2022]

45. Davies, T.J., Maurin, O., Yessoufou, K., Daru, B.H., Bezeng, B.S., Mankga, L.T., Schaefer, H., Thuiller, W. & van der Bank, M. (2022) Woody plant phylogenetic diversity supports nature's contributions to people but is at risk from human population growth. **Conservation Letters** 15: e12914.

[2021]

44. Daru, B.H., Willis, C.G., Meineke, E.K., Ronk, A., Zobel, M., Pärtel, M., Antonelli, A., Davies, T.J. & Davis, C.C. Widespread homogenization of plant communities in the Anthropocene. **Nature Communications** 12: 6983.
43. Daru, B.H. (2021) Migratory birds distribute seeds to new climates. **Nature** 595: 34–36. [commentary]
42. Meineke, E.K. & Daru, B.H. (co-first author) (2021) Bias assessments to expand research harnessing biological collections. **Trends in Ecology and Evolution** 36: 1071–1082.
41. Rock, B.M. & Daru, B.H. (2021) Impediments to understanding seagrasses' response to global change. **Frontiers in Marine Science** 8: 608867.
40. Daru, B.H. (2021) Exploring a new way to think about climate regions. **eLife** 10: e67422. [commentary]

[2020]

39. Daru, B.H., Farooq, H., Antonelli, A. & Faurby, S. (2020) Endemism patterns are scale dependent. **Nature Communications** 11: 2115.
38. Davies, T.J., Daru, B.H., Bezeng, B.S., Charles-Dominique, T., Hempson, G.P., Kabongo, R.M., Maurin, O., Muasya, A.M., van der Bank, M. & Bond, W.J. (2020) Savanna tree evolutionary ages inform the reconstruction of the paleoenvironment of our hominin ancestors. **Scientific Reports** 10: 12430.
37. Daru, B.H., Karunaratne P. & Schliep K. (2020) phyloregion: R package for biogeographic regionalization and macroecology. **Methods in Ecology and Evolution** 11: 1483–1491.

[2019]

36. Daru, B.H., le Roux, P.C., Gopalraj, J., Park, D.S., Holt, B.G. & Greve, M. (2019) Spatial overlaps between the global protected areas network and terrestrial hotspots of evolutionary diversity. **Global Ecology and Biogeography** 28: 757–766.
35. Mathakutha, R., Steyn, C., le Roux, P.C., Blom, I.J., Chown, S.L., Daru, B.H., Ripley, B.S., Louw, A. & Greve, M. (2019) Invasive species differ in key functional traits from native and non-invasive alien plant species. **Journal of Vegetation Science** 30: 994–1006.
34. Daru, B.H., Kling, M.M., Meineke, E.K. & van Wyk, A.E. (2019) Temperature controls phenology in continuously flowering *Protea* species of subtropical Africa. **Applications in Plant Sciences** 7: e1232.

[2018]

33. **Daru, B.H., Bowman, E.A., Pfister, D.H. & Arnold, A.E.** (2018) A novel proof of concept for capturing the diversity of endophytic fungi preserved in herbarium specimens. ***Philosophical Transactions of the Royal Society B*** 374: 20170395.
32. **Meineke, E.K., Davies, T.J., Daru, B.H. & Davis, C.C.** (2018) Biological collections for understanding biodiversity in the Anthropocene. ***Philosophical Transactions of the Royal Society B*** 374: 20170386.
31. **Daru, B.H., Park, D.S., Primack, R.B., Willis, C.G., Barrington, D.S., Whitfeld, T.J.S., Seidler, T.G., Sweeney, P.W., Foster, D.R., Ellison, A.M. & Davis, C.C.** (2018) Widespread sampling biases in herbaria revealed from large-scale digitization. ***New Phytologist*** 217: 939-955.
30. **Daru, B.H., van der Bank, M. & Davies, T.J.** (2018) Unravelling the evolutionary origins of biogeographic assemblages. ***Diversity and Distributions*** 24: 313-324.

[2017]

29. **Daru, B.H., Elliott, T.L., Park, D.S. & Davies, T.J.** (2017) Understanding the processes underpinning patterns of phylogenetic regionalization. ***Trends in Ecology and Evolution*** 32: 845-860.
28. **Daru, B.H., Holt, B.G., Lessard, J.P., Yessoufou, K. & Davies, T.J.** (2017) Phylogenetic regionalization of marine plants reveals close evolutionary affinities among disjunct temperate assemblages. ***Biological Conservation*** 213: 351–356.
27. **Daru, B.H., van der Bank, M. & Yessoufou, K.** (2017) Testing the reliability of the standard and complementary DNA barcodes for the monocot subfamily Alooideae from South Africa. ***Genome*** 60: 337–347.
26. **Bezeng, B.S., Morales-Castilla, I., van der Bank, M., Yessoufou, K., Daru, B.H. & Davies, T.J.** (2017) Climate change may reduce the spread of non-native species. ***Ecosphere*** 8: e01694.
25. **Yessoufou, K., Daru, B.H., Elansary, H.O., Rampedi, I.** (2017) Integrating biogeography, threat, and evolutionary data to explore extinction on crisis in the taxonomic group of cycads. ***Ecology and Evolution*** 7: 2735–2746.
24. **Bezeng, B.S., Davies, T.J., Daru, B.H., Kabongo, R.M., Maurin, O., Orton, R.D., Yessoufou, K., van der Bank, H. & van der Bank, M.** (2017) Ten years of barcoding at the African Centre for DNA barcoding. ***Genome*** 60: 629–638.

[2016]

23. **Charles-Dominique, T., Davies, T.J., Hempson, G.P., Bezeng, B.S., Daru, B.H., Kabongo, R.M., Maurin, O., Muasya, A.M., van der Bank, M. & Bond, W.J.** (2016) Spiny plants, mammal browsers and the origin of African savannas. ***Proceedings of the National Academy of Sciences USA*** 113: E5572–E5579.
22. **Daru, B.H. & le Roux, P.C.** (2016) Marine protected areas are insufficient to conserve global marine plant diversity. ***Global Ecology and Biogeography*** 25: 324–334.
21. **Daru, B.H., van der Bank, M., Maurin, O., Yessoufou, K., Schaefer, H., Slingsby, J.A. & Davies, T.J.** (2016) A novel phylogenetic regionalization of the phytogeographic zones of southern Africa reveals their hidden evolutionary affinities. ***Journal of Biogeography*** 43: 155–166.
20. **Daru, B.H., Berger, D.K. & van Wyk, A.E.** (2016) Opportunities for unlocking the potential of genomics for African trees. ***New Phytologist*** 210: 772–778.
19. **Davies, T.J., Daru, B.H., van der Bank, M., Maurin, O. & Bond, W.J.** (2016) Multiple routes underground? Frost alone cannot explain the evolution of underground trees. ***New Phytologist*** 209: 910–912.

[2015]

18. Daru, B.H., van der Bank, M. & Davies, T.J. (2015) Spatial incongruence among hotspots and complementary areas of tree diversity in southern Africa. ***Diversity and Distributions*** 21: 769–780.
17. Yessoufou, K., Daru, B.H. & Muasya, A.M. (2015) Phylogenetic exploration of commonly used medicinal plants in South Africa. ***Molecular Ecology Resources*** 15: 405–413.
16. Bello, A., Daru, B.H., Stirton, C.H., Chimphango, S.B.M., van der Bank, M., Maurin, O. & Muasya, A.M. (2015) DNA barcoding reveals microevolutionary signals in fire survival and regeneration strategies in southern African Psoraleoid legumes. ***AoB PLANTS*** 7: plv124.
15. Daru, B.H., Yessoufou, K., Nuttman, C. & Abalaka, J. (2015) A preliminary study of bird use of fig *Ficus* species in Amurum Forest Reserve, Nigeria. ***Malimbus*** 37: 1–15.

[2014]

14. Maurin, O., Davies, T.J., Burrows, J.E., Daru, B.H., Yessoufou, K., Muasya, A.M., Van der Bank, M. & Bond, W.J. (2014) Savanna fire and the origins of the "underground forests" of Africa. ***New Phytologist*** 204: 201–214.
13. Manning, J.C., Boatwright, J.S., Daru, B.H., Maurin, O. & Van der Bank, M. (2014) A molecular phylogeny and classification of Asphodelaceae subfamily Alooideae: towards a resolution of the prickly issue of polyphyly in the Aloooids. ***Systematic Botany*** 39: 55–74.
12. Yessoufou, K., Bamigboye, S.O., Daru, B.H. & Van der Bank, M. (2014) Evidence of constant diversification punctuated by a mass extinction in the African cycad. ***Ecology and Evolution*** 4: 50–58.
11. Iheanacho, H.E., Njobeh, P.B., Dutton, F.M., Steenkamp, P.A., Steenkamp, L., Mthombeni, J.Q., Daru, B.H. & Makun, A.H. (2014) Morphological and molecular identification of filamentous *Aspergillus flavus* and *A. parasiticus* isolated from compound feeds in South Africa. ***Food Microbiology*** 44: 180–184.
10. Yessoufou, K., Gere, J., Daru, B.H. & Van der Bank, M. (2014) Differences in evolutionary history translate into differences in invasion success of alien mammals in South Africa. ***Ecology and Evolution*** 4: 2115–2123.

[2013]

09. Daru, B.H., Yessoufou, K., Mankga, L.T. & Davies, T.J. (2013) A global trend towards the loss of evolutionarily unique species in mangrove ecosystems. ***PLoS ONE*** 8: e66686.
08. Daru, B.H., Manning, J.C., Boatwright, J.S., Maurin, O., Maclean, N., Schaefer, H., Kuzmina, M. & Van der Bank, M. (2013) Molecular and morphological analysis of subfamily Alooideae (Asphodelaceae) and the inclusion of *Chortolirion* in *Aloe*. ***Taxon*** 62: 62–76.
07. Kyalangalilwa, B., Boatwright, J.S., Daru, B.H., Maurin, O. & Van der Bank, M. (2013) Phylogenetic position and revised classification of *Acacia* s.l. (Fabaceae: Mimosoideae) in Africa, including new combinations in *Vachellia* and *Senegalia*. ***Botanical Journal of the Linnean Society*** 172: 500–523.

[2012]

06. Yessoufou, K., Daru, B.H. & Davies, T.J. (2012) Phylogenetic patterns of extinction risk in the Eastern Arc ecosystems, an African biodiversity hotspot. ***PLoS ONE*** 7: e47082.
05. Van der Bank, H.F., Greenfield, R., Daru, B.H. & Yessoufou, K. (2012) DNA barcoding reveals micro-evolutionary changes and river system-level phylogeographic resolution of seven populations of African silver catfish, *Schilbe intermedius* (Siluriformes, Schilbeidae). ***Acta Ichthyologica et Piscatoria*** 42: 307–320.
04. Yessoufou, K., Abalaka, J., Van der Bank, M. & Daru, B.H. (2012) Fig-frugivore interactions follow a constrained Brownian motion model of evolution in an Important Bird Area, West Africa. ***Israel Journal of Ecology and Evolution*** 58: 39–51.

Publications in Peer-Reviewed Book Chapters

03. Daru, B.H. & Yessoufou, K. (2016) A search for a single DNA barcode for seagrasses of the world. In: *DNA barcoding in marine perspectives: assessment and conservation of biodiversity* (eds. by S. Trivedi, A.A. Ansari, K.S. Ghosh, H. Rehman), pp. 313–330. Springer International Publishing Switzerland. doi: 10.1007/978-3-319-41840-7_19
02. Gere, J., Yessoufou, K., Daru, B.H., Mankga, L.T., Maurin, O. & Van der Bank, M. (2013) Incorporating *trnH-psbA* to the core DNA barcodes improves significantly species discrimination within southern African Combretaceae. In: *DNA barcoding: a practical tool for fundamental and applied biodiversity research* (eds. by Z.T. Nagy, T. Backeljau, M. De Meyer, K. Jordaens), ZooKeys 365, pp. 127–147. doi: 10.3897/zookeys.365.5728.
01. Mankga, L.T., Yessoufou, K., Moteetee, A.M., Daru, B.H. & Van der Bank, M. (2013) Efficacy of the core DNA barcodes in identifying processed and poorly conserved plant materials commonly used in South African traditional medicine. In: *DNA barcoding: a practical tool for fundamental and applied biodiversity research* (eds. by Z.T. Nagy, T. Backeljau, M. De Meyer, K. Jordaens), ZooKeys 365, pp. 215–233. doi: 10.3897/zookeys.365.5730.

Manuscripts Submitted or Under Review

03. Daru, B.H. & Zhigila, D.A. Unlocking historical plant interactions in herbarium collections. *Nature Reviews Biodiversity* (under review).
02. Daru, B.H. Tracking hidden dimensions of plant biogeography from herbaria. *New Phytologist* (under review).
01. Daru, B.H., Karunarathne, P., Davies, T.J. & Schliep, K. A global biogeographic classification for vascular plants (under review).

TEACHING AND ADVISING

TEXAS A&M UNIVERSITY-CORPUS CHRISTI

2021, Spring Semester: Systematics (graduate, ~6 participants)
2019, 2020, Spring Semester: Biogeography (graduate, 5-10 participants)
2021, Spring Semester: Plant Ecology (undergraduate, ~25 participants)
2021, Spring Semester: Biological Systematics & Phylogenetics (undergrad, ~9 students)
2020, 2021, Fall Semester: Science Communication (undergraduate, ~15 students)
2020, Spring Semester: Plant Taxonomy, Spring 2020 (undergraduate, ~7 students)
2020, Spring Semester: Biogeography, Spring 2020 (undergraduate, ~10 students)

A. P. LEVENTIS ORNITHOLOGICAL RESEARCH INSTITUTE, NIGERIA

2019, Summer Semester: Conservation Biology (graduate, ~10 participants)

UNIVERSITY OF PRETORIA, SOUTH AFRICA

2015-16: Molecular and Cell Biology (undergraduate, ~300-400 students)

UNIVERSITY OF JOHANNESBURG, SOUTH AFRICA

2015: R for Phylogenetics and Spatial Ecology (mixed participants, ~15 participants)
2010-16: Teaching Assistant: Plant Diversity (with Michelle van der Bank)

NATIONAL YOUTH SERVICE CORPS, NIGERIA

2008-2009: General High School Biology Teacher (Comprehensive Grammar Secondary School Ogboro, Oyo State, Nigeria)

TRAINEES

Postdoctoral Researchers:

Collin Gross 2023-

Gabriel Nakamura 2021-22; Postdoc at Universidade Federal do Rio Grande do Sul, Brazil

Piyal Karunarathne 2019-20; Research Fellow at Uppsala University Sweden

PhD Students:

Lauren Puleo, Ph.D. in progress

Joseph Kesler, Ph.D. in progress

Paul Markley, Ph.D. in progress

Alex Aromin, Ph.D. in progress (joint with C. Lumibao)

Masters Students:

Arras Wiedorn 2020-21; Texas State Aquarium

Brianna Rock 2019-21; Associate Aquarist, SeaWorld Parks & Entertainment, Florida

Samantha-Leigh Jamison 2015-17, Ph.D. student at University of Pretoria

Undergraduates, research for credit, work experience:

Avani Brandt 2024- Stanford undergraduate student

Madeline Hodge 2024- Stanford BSURP student

Weston Kirk 2024- Stanford BSURP student

Natalie Bai 2024- Stanford BSURP student

Samuel Benzecry 2023-24 Stanford BSURP student

Jordan Rodriguez 2019-21; Ph.D. student at University of Oregon

Lauren Snyder 2019-20; Assistant monitoring invasive species, USDA, Houston, TX

PRESENTATIONS

Honorary Lecture at International Conference

Invited Keynote Speaker, “The biogeography of native botanical diversity in the age of humans”, *International Biogeography Society Funk lectures*, April 2024.

Invited Keynote Speaker, “Understanding plant biogeography in the Anthropocene”, *Houston Regional Ecology and Evolution Student Symposium*, Texas, USA, May 2021.

Invited Speaker, Students & Careers Resource Symposium of *Ecological Society of America student section*, with the goal to discuss international student opportunities, 2021.

Invited Plenary Speaker, “Putting phylogenetic biogeography on the map”, *21st congress of the Association for the Taxonomic Study of the Flora of Tropical Africa (AETFAT)*, Nairobi Kenya, May 2017 (~300 participants).

Conference Presentations

Daru BH (2022) GreenMaps: a Tool for Addressing the Wallacean Shortfall in the Global Distribution of Plants. *Conference of the Botanical Society of America, Anchorage, Alaska*.

Daru BH (2020) GreenMaps: a Tool for Addressing the Wallacean Shortfall in the Global Distribution of Plants. *46th conference of the South African Association of Botanists, Qwaqwa, Free State, South Africa*.

- Rodriguez J & Daru BH (2020) Mismatches and congruencies in plant sampling biases between observations and vouchered specimens. *46th conference of the South African Association of Botanists, Qwaqwa, Free State, South Africa.*
- Snyder L & Daru BH (2019) How digitization efforts at small local herbaria add to the scientific community and predicting the impact of the Ruth O'Brien herbarium. *Global Change Symposium, Texas A&M University-Corpus Christi, December.*
- Daru BH et al. (2019) Spatial overlaps between the global protected areas network and terrestrial hotspots of evolutionary diversity, *Evolution Conference, Providence, USA.*
- Daru BH et al. (2019) Temperature controls phenology in continuously flowering Protea species of subtropical Africa, *Digital Data in Biodiversity Research Conference, Yale University, USA.*
- Daru BH et al. (2018) Sampling biases in herbarium specimens, *Ecological Society of America meeting, New Orleans, USA.*
- Daru BH (2017) Widespread phylogenetic homogenization in plant communities from anthropogenic change, *Congress of the Southern African Society for Systematic Biologists, Pretoria, South Africa.*
- Daru BH, le Roux PC (2016) Marine plant diversity hotspots, *International Biogeography Association: The Biogeography of Ecology Special Meeting, Beijing, China.*
- Daru BH, Elliott TL (2016) Are phylogenies always better at biogeographic regionalization? *The 42^{1st} SAAB conference, Bloemfontein, South Africa.*
- Daru BH (2015) Analysis of climate change on flowering phenology of South African Protea (Proteaceae), *The 41^{1st} SAAB conference, Venda, South Africa.*
- Daru BH, Holt BG, Lessard JP, Yessoufou K, Davies TJ (2015) Phylogenetic regionalization of seagrasses, *The 41^{1st} SAAB conference, Venda, South Africa.*
- Daru BH, van der Bank M, Maurin O, Yessoufou K, Schaefer H, Slingsby J, Davies TJ (2014) A phylogenetic regionalization of the phytogeographic zones of southern Africa, *17th Congress of the Society for Conservation GIS, Pacific Grove, California, USA.*
- Daru BH, van der Bank M, Davies TJ (2014) Tree diversity hotspots in southern Africa, *10th Postgraduate Symposium Department of Botany, University of Johannesburg, South Africa.*
- Daru BH, van der Bank M, Maurin O, Yessoufou K, Schaefer H, Slingsby J, Davies TJ (2014) A phylogenetic reclassification of the phytogeographic zones of southern Africa, *20th Congress of the Association for the Taxonomical Study of the Flora of tropical Africa, Stellenbosch, South Africa.*
- Daru BH, van der Bank M, Maurin O, Yessoufou K, Schaefer H, Davies TJ (2013) A phylogenetic reclassification of the phytogeographic zones of southern Africa, *International Biogeography Association: The Geography of Species Association Special Meeting, Montréal, Canada.*
- Daru BH, van der Bank M, Maurin O, Yessoufou K, Schaefer H, Davies TJ (2013) A phylogenetic reclassification of the phytogeographic zones of southern Africa, *Ninth Postgraduate Symposium Department of Botany, University of Johannesburg, South Africa.*
- Daru BH, Yessoufou K, van der Bank M, Davies TJ (2013) Extinction risk in the Eastern Arc flora, *39th SAAB conference, Drakensberg, South Africa.*
- Daru BH, Manning JC, Boatwright JS, Maurin O, van der Bank M (2012). Phylogeny of the subfamily Aloioideae (Asphodelaceae), *Congress of Southern African Society for Systematic Biology (SASSB), Arniston, Cape Town, South Africa.*
- Moderator:** DNA barcoding Webinar (2011): All-taxon biodiversity inventory projects at the African Centre for DNA Barcoding. Presented by Prof Michelle van der Bank.
- Daru BH, Maurin O, Maclean N, Bayer MB, van der Bank M (2011). Molecular phylogeny of *Haworthia* (Asphodelaceae): evidence from plastid and nuclear DNA sequences,

Congress of Southern African Society for Systematic Biology (SASSB), Rhodes University, South Africa.

Daru BH, Tilahun D, Osei-Bonsu I, Tambal R (2009). Does isolation influence herbivory, seed set and flower visits in the spread of *Lantana camara*? A test in Kibale, Uganda, *Conference of Nigerian Tropical Biology Association (NTBA), University of Ibadan, Nigeria.*

Daru BH (2007). Species diversity and abundance of fig wasps in *Ficus umbellata* and *F. exasperata*, *Conference of the Ecological Society of Nigeria (EcSN) Jos, Nigeria.*

Posters

Daru BH, Karunarathne P, Schliep K (2020) phyloregion: R package for biogeographic regionalization and spatial conservation. *Conference of South African Association of Botanists, Qwaqwa, South Africa.*

Daru BH, Park DS, Willis CG, Kennedy J, Davis CC (2016) Assessing fine-scale sampling bias in herbarium specimens, *Botanical Society of America, Savannah Georgia, USA.*

Daru BH, van der Bank M, Davies TJ (2015) A molecular phylogenetic analysis of tree diversity hotspots in southern Africa, *35th New Phytologist Symposium. The genomes of forest trees: new frontiers of forest biology Harvard University, USA.*

Daru BH, Yessoufou K, Boatwright JS, van der Bank M (2012). Ecological factors shaping distribution of *Lachnaea* spp. (Thymelaeaceae), *Spring Science Poster Competition by the Royal Society of South Africa, Johannesburg, South Africa.*

Daru BH, Mwansat GS, Abalaka J, Imandeh GN (2008). Species diversity and abundance of fig wasps in *Ficus* species of Amurum Forest Reserve, Nigeria (Poster Presentation), *Students Conference on Conservation Science (SCCS), University of Cambridge, UK.*

INVITED SEMINARS AND LECTURESHIPS

(*invitation by students)

- 2024 International Biogeography Society Funk lecture
- 2024 *University of Chicago, Chicago
- 2023 University of British Columbia, Vancouver
- 2023 California State University East Bay in Hayward
- 2023 *Stanford Biology Summer Undergraduate Research Program
- 2023 Royal Society of London Scientific Discussion: Recovering Nature.
- 2023 *Stanford Black Bioscience Organization, Stanford University.
- 2023 *Institute of Ecology and Evolution, University of Oregon.
- 2023 Department of Integrative Biology (Botany Lunch), UC Berkeley.
- 2022 Department of Biology, Stanford University.
- 2022 College of Agric & Env Sciences (African Scholar Lecture), University of South Africa.
- 2021 Department of Ecology and Evolution, Stony Brook University.
- 2021 Department of Biology, Stanford University.
- 2021 Carnegie Department of Plant Biology at Stanford.
- 2021 Elizade University, Nigeria, Department of Biological Sciences.
- 2020 Louisiana State University, Department of Biological Sciences
- 2020 San Francisco State University, Department of Biology.
- 2019 Texas A&M University-College Station, Dept of Ecology & Evolutionary Biology.
- 2019 University of Massachusetts-Boston, Department of Biology.
- 2019 A. P. Leventis Ornithological Research Institute Jos, Nigeria.
- 2019 Consortium of Northeastern Herbaria (neherbaria.org) at Yale University.
- 2019 Texas A&M University-Corpus Christi, Department of Mathematics & Statistics.
- 2018 Yale University, Department of Ecology and Evolutionary Biology.

- 2018 Texas A&M University Corpus-Christi, Department of Life Sciences.
- 2018 University of Central Oklahoma, Biology Department.
- 2017 Harvard University Herbaria Seminar Series.
- 2017 Arnold Arboretum of Harvard University Seminar Series.
- 2017 Postdoctoral Science Café of Harvard University Seminar Series.
- 2017 University of Pennsylvania, Department of Biology.
- 2017 Harvard University Herbaria Seminar Series.
- 2016 Harvard University, Conservation Biology.
- 2014 Harvard University, Department of Organismic and Evolutionary Biology
- 2014 University of California, Berkeley, Department of Integrative Biology
- 2014 University of Pretoria, South Africa, Department of Plant Science
- 2014 A. P. Leventis Ornithological Research Institute Jos, Nigeria
- 2013 University of Pretoria, South Africa, Department of Plant Science

AWARDS

Academic Recognition

- 2015 **Winner—New Phytologist Poster Prize \$150** at the 35th New Phytologist Symposium: The genomes of forest trees: new frontiers of forest biology, Harvard University, USA.
- 2014 **Best PhD Oral Presentation** (gold medal) at the 10th Annual Symposium, Department of Botany and Plant Biotechnology, University of Johannesburg, South Africa.
- 2013 **Best PhD Oral Presentation** (gold medal) at the 9th Annual Symposium, Department of Botany and Plant Biotechnology, University of Johannesburg, South Africa.
- 2012 **Third Best Poster \$41** at the Royal Society of South Africa Spring Science Poster Competition, Delta Environmental Centre, Johannesburg, South Africa.
- 2011 **Best Oral presentation by a MSc student \$164** at the congress of Southern African Society for Systematic Biology (SASSB) 2011, Rhodes University, South Africa.

Additional Support

- 2010 **Royal Society of London/National Research Foundation Bursary:** Merit postgraduate scholarship for Masters in Botany and Plant Biotechnology, University of Johannesburg, South Africa.
- 2008 **Tropical Biology Association (TBA) Scholarship:** Full scholarship with which I participated on the 2008 TBA field course in Kibale Forest, Uganda.

PROFESSIONAL SERVICE

UNIVERSITY SERVICE

Stanford University

- 2023 Biology Seminar Organization

Texas A&M University-Corpus Christi

- 2022 Search Committee: Dean College of Science position
- 2018 Search Committee: Tenure-track Assistant Professor position
- 2018-19 Life Sciences Department '*Journal Club Series: Trends in Global Change Biology*'

- 2018- Island Day, official campus preview event for prospective students and their families
- 2018- Member of Biology and Marine Biology Faculty Committees
- 2018-20 College of Science and Engineering Scholarship and Award Committee
- 2019 Hosted speaker for Harte Research Institute speaker series
- 2019- Representative of University Commencement ceremony

Editor for Scientific Journals

Associate Editor for ***American Journal of Botany*** (2021-2022).

Reviewing Editor for ***eLife*** (2020-2022).

Guest Editor for ***Philosophical Transactions of the Royal Society B*** for a theme issue: "Biological collections for understanding biodiversity in the Anthropocene" (2016-2019).

Peer-Review Services for Scientific Journals

Reviewer for: *Nature*, *Nature Communications*, *Nature Ecology & Evolution*, *Proceedings of the National Academy of Sciences USA*, *Scientific Reports*, *eLife*, *Conservation Biology*, *Diversity and Distributions*, *Climate Change Ecology*, *Molecular Ecology*, *Global Ecology and Biogeography*, *Molecular Ecology Resources*, *African Journal of Ecology*, *South African Journal of Botany*, *Journal of Biogeography*, *Tropical Ecology*, *Phytotaxa*, and *Botany Letters*.

Grant Panel Service

National Science Foundation Panel member:

1. Systematics and Biodiversity Science Program Panelist. May 2021.
2. Harnessing the Data Revolution (HDR): Institutes for Data-Intensive Research in Science and Engineering [NSF 21-519]. April, 2021.

Service to initiatives, community

- 2019- Member, IUCN's Task Force on Phylogenetic Diversity
- 2018-22 Member of the Texas-Oklahoma Regional Consortium of Herbaria
- 2013-16 Website Manager, South African Association of Botanists (www.sabotany.co.za)

Professional Affiliation

- 2018- Ecological Society of America
- 2016- Botanical Society of America
- 2014- Society for Conservation GIS (geographic information systems)
- 2014- International Biogeography Society
- 2013- Southern African Association of Botanists
- 2010- Southern African Society for Systematic Biologists
- 2008- Tropical Biology Association, Cambridge UK
- 2007- Nigerian Conservation Foundation
- 2007- Ecological Society of Nigeria.

PROFESSIONAL DEVELOPMENT

- 2019 Certificate, Best Practices for Online Course Design, Texas A&M University-Corpus Christi.
- 2016 Royal Society Discussion Meeting: *New trends in evolutionary biology: biological, philosophical and social science perspectives*. The Royal Society House, London, UK.
- 2015 Certificate of participation in African Forest Forum training workshop on *African Forestry Experts on Forest Related International Agreements*, Mombasa, Kenya.
- 2014 Certificate in *Working with Geodatabase Topology*, advanced GIS course at Asilomar Conference Grounds, California, USA.
- 2012 Advanced GIS analytic course at the University of Johannesburg, South Africa.

- 2012 Toyota Enviro Outreach plant samples collection, Cape Floristic Region, South Africa.
- 2012 Advanced R statistics course in Ecology, University of Sheffield, UK.
- 2011 Toyota Enviro Outreach plant samples collection, Maputaland biodiversity hotspot.
- 2011 R workshop in Phylogenetics and Spatial Ecology, University of Cape Town, South Africa.
- 2009 Introduction to R in Ecology, A. P. Leventis Ornithological Research Institute, Nigeria.
- 2008 Introductory Course on Molecular Ecology/DNA Barcoding at Imperial College London, UK.
- 2008 Tropical Biology Association (TBA) Field course (08/2) in Kibale Forest, Uganda.