

# Barnabas H. Daru

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GoogleScholar: <https://goo.gl/2t1Wau>

## APPOINTMENTS

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

## EDUCATION

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

## AWARDS AND FELLOWSHIPS

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Elected Fellow, Linnean Society of London	2025
Harvard University Postdoctoral Fellowship (\$135,000)	2016-18
Winner, New Phytologist Poster Prize (\$150)	2015
South African National Research Foundation Doctoral Fellowship (\$8200)	2014
South African National Research Foundation Travel Award (\$3000)	2014
Tropical Biology Association (TBA) Scholarship	2008
Nigerian Petroleum Corporation Undergraduate Fellowship (\$1912)	2003-07

## CURRENT FUNDING

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National Science Foundation – DBI (Lead PI), \$585,050 <i>phyloregion, computational infrastructure for biogeographic regionalization and macroecology in the R computing environment</i>	2021-25
National Science Foundation – DEB (PI), \$143,676 <i>Leveraging historical collections and new surveys to characterize foundational shifts in vital symbioses in the threatened Arctic</i>	2020-25

## COMPLETED/PAST FUNDING

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Texas Parks and Wildlife (co-PI), \$384,301 <i>A multi-taxa assessment of Ingleside Sandsheet Pond habitat to inform conservation</i>	2022-24
National Science Foundation DEB (subaward), \$42,245 <i>Digitization TCN: Collaborative: American Crossroads: Digitizing the vascular flora of the south-central US</i>	2019-23
Harvard University Postdoctoral Fellowship (\$135,000) <i>Extinction risk, biotic interactions and spatial trends of phenological diversity using herbarium records</i>	2016-18
South African National Research Foundation (Lead PI), \$9300, <i>Mangrove transcriptomics</i>	2015-16
Genome Research Institute, University of Pretoria, South Africa (\$4500)	2015-16

## ORIGINAL RESEARCH PUBLICATIONS (ALL PEER-REVIEWED)

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(Lab members and trainees underlined)

54. **Daru, B.H.** (2025) Tracking hidden dimensions of plant biogeography from herbaria. *New Phytologist* doi: 10.1111/nph.70002
53. Gross, C.P., Wright, A.M. & **Daru, B.H.** (2025) A global biogeographic regionalization for butterflies. *Philosophical Transactions B* 380: 20230211
52. Markley, P.T., Gross, C.P. & **Daru, B.H.** (2025) The changing biodiversity of the Arctic flora in the Anthropocene. *American Journal of Botany* 111: e16466
51. Mineev-Benzecry, S. & **Daru, B.H.** (2024) Climate change alters the future of natural floristic regions of deep evolutionary origins. *Nature Communications* 15: 9474
50. **Daru, B.H.** (2024) A global database of butterfly species native distributions. *Ecology* 106: e4462
49. **Daru, B.H.** (2024) Predicting undetected native vascular plant diversity at a global scale. *Proceedings of the National Academy of Sciences USA* 121: e2319989121
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* 37: e14138.
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.
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]
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.**, Karunarathne P. & Schliep K. (2020) phyloregion: R package for biogeographic regionalization and macroecology. *Methods in Ecology and Evolution* 11: 1483-1491.
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.
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.
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 & 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.
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.

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.
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.
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.
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.

## TEACHING AND ADVISING

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### STANFORD UNIVERSITY

Introduction to Ecology, Bio81 (undergraduate, ~250 students) Fall 2024

### TEXAS A&M UNIVERSITY-CORPUS CHRISTI

Spring Semester: Systematics (graduate, ~6 participants)	2021
Spring Semester: Biogeography (graduate, 5-10 participants)	2019, 20
Spring Semester: Plant Ecology (undergraduate, ~25 participants)	2021
Spring Semester: Biological Systematics & Phylogenetics (undergrad, ~9 students)	2021
Fall Semester: Science Communication (undergraduate, ~15 students)	2020, 21
Spring Semester: Plant Taxonomy, Spring 2020 (undergraduate, ~7 students)	2020
Spring Semester: Biogeography, Spring 2020 (undergraduate, ~10 students)	2020

### A. P. LEVENTIS ORNITHOLOGICAL RESEARCH INSTITUTE, NIGERIA

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

### UNIVERSITY OF PRETORIA, SOUTH AFRICA

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

### UNIVERSITY OF JOHANNESBURG, SOUTH AFRICA

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

### NATIONAL YOUTH SERVICE CORPS, NIGERIA

General High School Biology Teacher, Oyo State, Nigeria 2008-09

## 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)

### Graduate Student Committees:

Joel Erberich (2024-present)  
Desire Nalukwago (2024-present)  
Andrea Nebhut (2023-present),  
Joy Kumagai (2023-present),  
Maurice Goodman (2024-present)

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 undergraduate BSURP student  
Weston Kirk 2024- Stanford undergraduate BSURP student  
Natalie Bai 2024- Stanford undergraduate BSURP student  
Samuel Benzecry 2023-24 undergraduate Stanford BSURP student  
Jordan Rodriguez 2019-21; *now* Ph.D. student at University of Oregon  
Lauren Snyder 2019-20; *now* Assistant monitoring invasive species, USDA, Houston, TX

## **PRESENTATIONS**

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### 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", *21<sup>st</sup> 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 (2023) The rates of global plant dispersal and Landscape Terraformation. *American Geophysical Union AGU23, San Francisco, California*.  
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. *46<sup>th</sup> 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. *46<sup>th</sup> 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<sup>nd</sup> SAAB conference, Bloemfontein, South Africa*.
- Daru BH (2015) Analysis of climate change on flowering phenology of South African Protea (Proteaceae), *The 41<sup>st</sup> SAAB conference, Venda, South Africa*.
- Daru BH, Holt BG, Lessard JP, Yessoufou K, Davies TJ (2015) Phylogenetic regionalization of seagrasses, *The 41<sup>st</sup> 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, *17<sup>th</sup> 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, *10<sup>th</sup> 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, *20<sup>th</sup> 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, *39<sup>th</sup> SAAB conference, Drakensberg, South Africa*.
- Daru BH, Manning JC, Boatwright JS, Maurin O, van der Bank M (2012). Phylogeny of the subfamily Alooideae (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

- Hodge, M. & Daru, B.H. (2024) Capturing past plant-microbiome interactions through herbarium records. *Stanford B-SURP symposium*.
- Bai, N., Markeley, P.T. & Daru, B.H. (2024) Uncovering past biotic migration of seagrass with microbial symbionts from herbarium records. *Stanford B-SURP symposium*.
- Kirk, W. & Daru, B.H. (2024) Loss of functional diversity of crop wild relatives under global change. *Stanford B-SURP symposium*.
- Minev-Benzecry S, Daru BH (2023) Plant naturalizations and the redefinition of biogeographic boundaries in the Anthropocene. *Stanford B-SURP symposium*.
- 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, *35<sup>th</sup> 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

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*Stanford Undergraduate Research Association, Professional development workshop	2025
Department of Integrative Biology (Botany Lunch), UC Berkeley	2024
Oceans Seminar, Stanford Hopkins Marine Station	2024
Botanical Society of Nigeria Webinar	2024
International Biogeography Society Funk lecture	2024
*University of Chicago, Chicago	2024
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	2023
Department of Biology, Stanford University	2022
College of Agric & Env Sciences (African Scholar Lecture), University of South Africa	2022
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	2021
Louisiana State University, Department of Biological Sciences	2020



San Francisco State University, Department of Biology	2020
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	2019
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	2018
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	2017
Harvard University, Conservation Biology	2016
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	2014
University of Pretoria, South Africa, Department of Plant Science	2013

## PROFESSIONAL SERVICE

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### UNIVERSITY SERVICE

#### STANFORD UNIVERSITY

Biology Graduate Admission Committee	2024
Biology Seminar Organization	2023-
Promotion Committee for Lecturer, Biology Department	2023

#### TEXAS A&M UNIVERSITY-CORPUS CHRISTI

Search Committee: Dean College of Science position	2022
Search Committee: Tenure-track Assistant Professor position	2018
Life Sciences Department 'Journal Club Series: Trends in Global Change Biology'	2018-19
Island Day, official campus preview event for prospective students and their families	2018
Member of Biology and Marine Biology Faculty Committees	2018-22
College of Science and Engineering Scholarship and Award Committee	2018-20
Hosted speaker for Harte Research Institute speaker series	2019
Representative of University Commencement ceremony	2019-22

#### EDITOR FOR SCIENTIFIC JOURNALS

Associate Editor for <i>American Journal of Botany</i>	2021-22
Reviewing Editor for <i>eLife</i>	2020-24
Guest Editor for <i>Philosophical Transactions of the Royal Society B</i>	2016-19

### PROFESSIONAL ACTIVITIES

#### 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 SERVICES

*National Science Foundation Panel member:*

Systematics and Biodiversity Science Program Panelist	2021
Harnessing the Data Revolution (HDR) [NSF 21-519]	2021

#### SERVICE TO INITIATIVES, COMMUNITY

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

#### PROFESSIONAL AFFILIATION

Ecological Society of America	2024-
Botanical Society of America	2016-
Society for Conservation GIS (geographic information systems)	2014-
International Biogeography Society	2014-
Southern African Association of Botanists	2013-
Southern African Society for Systematic Biologists	2010-
Tropical Biology Association, Cambridge UK	2008
Nigerian Conservation Foundation	2007
Ecological Society of Nigeria	2007