

# Barnabas H. Daru

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## APPOINTMENTS

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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

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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)

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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

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(48 papers; Students and Postdoctoral Scholars underlined, Citations = 2379, H-index = 26)

### [2023]

48. **Daru, B.H.** & Rock, B.M. (2023) Reorganization of seagrass communities in a changing climate. *Nature Plants* doi: 10.1038/s41477-023-01445-6.
47. **Daru, B.H.** & Rodriguez, J. (2023) Mass production of unvouchered records fails to represent global biodiversity patterns. *Nature Ecology & Evolution* 7: 816–831.
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* (in press).

### [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., Whitfield, 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**

01. **Daru, B.H.**, Karunarathne, P., Davies, T.J. & Schliep, K. A global biogeographic classification for vascular plants. *Nature Ecology and Evolution* (under review).

## **TEACHING AND ADVISING**

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### **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:

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:

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:

Jordan Rodriguez 2019-21; Ph.D. student at University of Oregon  
Lauren Snyder 2019-20; Assistant monitoring invasive species, USDA, Houston, TX

## PRESENTATIONS

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### Honorary Lecture at International Conference

- 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** (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>1st</sup> SAAB conference, Bloemfontein, South Africa*.
- Daru BH** (2015) Analysis of climate change on flowering phenology of South African Protea (Proteaceae), *The 41<sup>1st</sup> SAAB conference, Venda, South Africa*.
- Daru BH**, Holt BG, Lessard JP, Yessoufou K, Davies TJ (2015) Phylogenetic regionalization of seagrasses, *The 41<sup>1st</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

- 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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(\*invitation by graduate students)

- 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

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### Academic Recognition

- 2015 **Winner—New Phytologist Poster Prize \$150** at the 35<sup>th</sup> 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 10<sup>th</sup> Annual Symposium, Department of Botany and Plant Biotechnology, University of Johannesburg, South Africa.
- 2013 **Best PhD Oral Presentation** (gold medal) at the 9<sup>th</sup> 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

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### 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

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

### Professional Affiliation

- 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**

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- 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.