

Barnabas H. Daru, PhD

Department of Life Sciences
Texas A&M University-Corpus Christi
6300 Ocean Drive, Unit 5800,
Corpus Christi, TX 78412, USA

Telephone: Phone: +1 361 825 3489
Email: Barnabas.Daru@tamucc.edu
Lab URL: <http://www.barnabasdaru.com>
GoogleScholar: <https://goo.gl/2t1Wau>

PROFESSIONAL APPOINTMENTS

- 2018- Assistant Professor of Biology, Texas A&M University Corpus Christi, Texas.
2018- Harvard University Herbaria Research Associate, Harvard University.
2016-18 Harvard University Herbaria Postdoctoral Fellow, Harvard University.
2014-16 Lecturer, Department of Plant Science, University of Pretoria, South Africa.
2010-14 Research Assistant Plant Diversity, University of Johannesburg, South Africa.
2005-07 Intern: A. P. Leventis Ornithological Research Institute, Nigeria.

EDUCATION

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

RESEARCH GRANTS (TOTAL = \$347,833 USD)

Awarded	Period	Total
National Science Foundation 2031928: <i>Leveraging historical collections and new surveys to characterize foundational shifts in vital symbioses in the threatened Arctic.</i>	2020-23	\$143,676
National Science Foundation 1902080: Digitization TCN: Collaborative: <i>American Crossroads: Digitizing the vascular flora of the south-central US.</i>	2019-23	\$42,245
Harvard University Herbaria Postdoctoral Fellowship. <i>Analysis of extinction risk, biotic interactions & spatial trends of phenological diversity using herbarium records</i>	2016-18	\$135,000
South African National Research Foundation 99258: <i>Mangrove transcriptomics.</i>	2015-16	\$9300
Genome Research Institute, University of Pretoria, South Africa	2015-16	\$4500
South African National Research Foundation Doctoral Fellowship	2014	\$8200
South African National Research Foundation Travel Grant	2014	\$3000
Nigerian Petroleum Corporation Undergraduate Fellowship	2003	\$1912

PUBLICATIONS

(Google Scholar [February 2021]: 41 papers; 20 first-author; Times cited = 1273; H-index = 20)

[2021]

41. Daru, B.H. (2021) A zoogeographic classification of climate regions. *eLife* (in press).
40. Rock, B.M. & Daru, B.H. (2021) Impediments to understanding seagrasses' response to global change. *Frontiers in Marine Science* 8: 608867.

[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.**, Karunarathne 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., Moteete, 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

04. **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* (under consideration).
03. **Daru, B.H.** & Yessoufou, K. Phylogenetically informed delineation of phytogeographic realms of the world. *Botany Letters* (under review).
02. 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. Savanna tree origins and the paleoenvironment of our hominin ancestors. *Communications Biology* (under review).
01. Gumbs, R., Chaudhary, A., **Daru, B.H.**, Faith, D.P., Forest, F., Gray, C.L., Pellens, R., Pollock, L.J., Rosindell, J., Scherson, R.A. & Owen, N.R. The Post-2020 Global Biodiversity Framework must safeguard the Tree of Life. *Conservation Letters* (under review).

Manuscripts in Preparation

01. **Daru, B.H.** & Yessoufou, K. Impact of climate change on the phylogenetic diversity of marine plants. Target journal: *Nature Climate Change* (50% complete in preparation).

Features on TV, News and Popular Media Sources

08. TAMUCC News “Island University Biology Professor Awarded National Science Foundation Grant as Part of Arctic Research Project”, October 21, 2020. Available at: <https://tamucc.edu/news/2020/10/102120-nsf-cose-biology-herbarium-daru-research-project.html#.YC61yRNKjIw>
07. TAMUCC News “Island University Researcher’s Team Finds New Ways to Study Rare Animals”, April 30, 2020. Available at: <https://tamucc.edu/news/2020/04/043020-rare-animal-study.html#.YC61exNKjIw>

06. EurekAlert "Critical collections", November 19, 2018. Available at: <https://goo.gl/KXbvH9>
05. Reuell, P. "Study uncovers botanical bias", *Harvard Gazette*, December 22, 2017. Available at: <http://tiny.cc/7rfupy>
04. TV interview, "The vital role of seagrasses in marine ecosystems", *WGBH Forum Network Boston*, January 10 (2017). Available at: <http://tiny.cc/cksxiy>
03. Powell, A. "Strong case for seagrass", *Harvard Gazette*, September 15 (2016). Available at: <http://tiny.cc/clxxfy>
02. Chabalala, J. "The thorny side of antelope evolution in Africa", *News24*, September 7 (2016). Available at: <http://tiny.cc/4mxxfy>
01. Barras, C. "Why some trees evolved to live underground", *BBC*, November 3 (2014). Available at: <http://tiny.cc/73y8fy>

TEACHING AND ADVISING EXPERIENCE

TEXAS A&M UNIVERSITY-CORPUS CHRISTI

- BIOL 3479: Plant Ecology, Spring 2021.
- BIOL 5309: Systematics, Spring 2021.
- BIOL 4590: Biological Systematics and Phylogenetics, Spring 2021.
- BIOL 2300: Science Communication, Fall 2020.
- BIOL 4422: Plant Taxonomy, Spring 2020.
- BIOL 4590: Biogeography, Spring 2020.
- BIOL 5308: Biogeography, Spring 2020.
- BIOL 5308: Biogeography, Spring 2019.

A. P. LEVENTIS ORNITHOLOGICAL RESEARCH INSTITUTE, NIGERIA

- Conservation Biology, Summer 2019.

UNIVERSITY OF PRETORIA, SOUTH AFRICA

- MLB 133: Molecular and Cell Biology, 2015.
- MLB 143: Molecular and Cell Biology, 2015-2016.

UNIVERSITY OF JOHANNESBURG, SOUTH AFRICA

- R for Phylogenetics and Spatial Ecology, 2015.
- BOT 1B: Plant Diversity, 2010-2016 (Teaching Assistant)

NATIONAL YOUTH SERVICE CORPS, NIGERIA

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

CURRENT STUDENTS AND LAB MEMBERS

- 2021- Paul Markley, PhD Marine Biology, Texas A&M University-Corpus Christi.
- 2020- Keilana Borja, MSc Marine Biology, Texas A&M University-Corpus Christi.
- 2019- Brianna Rock, MSc Marine Biology, Texas A&M University-Corpus Christi.
- 2019- James Coquat, Undergraduate Intern, Texas A&M University-Corpus Christi.
- 2019- Jordan Rodriguez, Undergraduate Intern, Texas A&M University-Corpus Christi.
- 2019- Christian Amos, Undergraduate Intern, Texas A&M University-Corpus Christi.

FORMER GRADUATE STUDENTS, LAB MEMBERS & POSTDOCTORAL SCHOLARS

- 2019-20 Dr. Piyal Karunarathne, Postdoctoral Scholar.
- 2019-20 Lauren Snyder, Herbarium Intern.

2015-17	Samantha-Leigh Jamison, MSc in Plant Science.
2015-17	Sydney Ramulifho, MSc in Botany.
2015-15	David Bower, BSc Hons.
2013-14	Lesiba Papo, BSc Hons.
2013-14	Babatunde S. Ojelade, BSc Hons.

PRESENTATIONS

Honorary Lecture at International Conference

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** (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 42nd SAAB conference, Bloemfontein, South Africa.*
- Daru BH** (2015) Analysis of climate change on flowering phenology of South African Protea (Proteaceae), *The 41st SAAB conference, Venda, South Africa.*
- Daru BH**, Holt BG, Lessard JP, Yessoufou K, Davies TJ (2015) Phylogenetic regionalization of seagrasses, *The 41st 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 (AETFAT), 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 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, *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 SEMINAR

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|------|-------------------------------------------------------------------------------|
| 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

Editor for Scientific Journals

- Reviewing Editor for *eLife* (2020-date).
- Guest Editor for *Philosophical Transactions of the Royal Society B* for a theme issue: “Biological collections for understanding biodiversity in the Anthropocene” (2016-date).

Peer-Review Services for Scientific Journals

- Reviewer for: *Nature*, *Nature Communications*, *Nature Ecology and Evolution*, *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*.

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.

Service

- 2013-16 Website Manager, South African Association of Botanists (www.sabotany.co.za)

PROFESSIONAL DEVELOPMENT

- 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.