

Israel T Borokini, Ph.D.

Assistant Professor, Department of Ecology, Montana State University, Bozeman
310 Lewis Hall, Bozeman MT 59715, U.S.A.

| +1406.994.5670 | israel.borokini@montana.edu | <https://tbisrael.wixsite.com/website>

Biodiversity scientist investigating the ecological and evolutionary drivers of plant diversification and distribution across multiple spatial and temporal scales to advance science and inform conservation management and policy

RESEARCH THEMES

Community ecology and phylogenetics, biogeography, spatial phylogenetics, niche theory, conservation biology, invasion ecology, traditional ecological and ethnobotanical knowledge, and science-policy interface.

EDUCATION

University of Nevada Reno, Nevada U.S.A.

Degree: Ph.D. (Ecology, Evolution and Conservation Biology), (May 2021)

Dissertation: Multi-empirical investigations on the population genetic structure, ecological niche, and regeneration of *Ivesia webberi* with conservation implications.

Advisors: Prof. Mary M. Peacock & Prof. Peter J. Weisberg

University of Ibadan, Ibadan, Nigeria

Degree: M.Sc. (Botany) with specialization on Plant Systematics, (May 2010)

Thesis: Ecogeographical variation in *Tacca leontopetaloides* (L.) Kuntze (Taccaceae) in Nigeria.

Advisor: Prof. Abiodun Ayodele

National Teachers' Institute, Kaduna, Nigeria

Degree: Postgraduate Diploma in Science Education (October 2007)

Thesis: Assessment of the schools' readiness for ICT-based teaching and learning of Biology in selected secondary schools in Ibadan metropolis of Oyo State.

Advisor: Dr. A.O Egunjobi

University of Ado-Ekiti, Ekiti State, Nigeria

Degree: B.Sc. (Hons.) (Botany) (May 2002)

Thesis: Characterization and Evaluation of twenty cowpea lines under the conditions in University of Ado-Ekiti.

Advisor: Prof. Michael Faluyi

PROFESSIONAL APPOINTMENTS

2023 – present	Assistant Professor , Department of Ecology, Montana State University, Bozeman <ul style="list-style-type: none">• 50% Teaching, 40% Research, 10% Service• PI, Conservation Ecology and Biogeography Lab• Research on community ecology, invasion biology, biogeography (species distribution modeling and spatial phylogenetics), conservation biology, and traditional ecology knowledge systems.
March – April 2023	Junior Visiting Research Fellow , School of Biological, Earth and Environmental Sciences, University of New South Wales, Sydney, Australia <i>Roles: learning and applying spatial phylogenetic methods in Biodiverse software for North American seed plants and trait diversity metric</i>

- August 2021 – July 2023 **Postdoctoral Scholar**, Prof. Brent Mishler's lab, University and Jepson Herbaria, Department of Integrative Biology, University of California, Berkeley
Roles: Mapping the spatial phylogenetics of North American seed plants using important facets and with modeled distributions of native plant taxa; and development of a new method for trait-based assessment of community-level phylogenetic diversity and drivers of community assembly.
- June – July 2021 **Postdoctoral Research Associate**, Dr. Julie Allen's lab, Department of Biology, University of Nevada, Reno
Roles: Training on Biodiverse software, macroevolution and phylogenetics, contribution to the project on spatial phylogenetics of the vascular flora of Southeastern United States
- May 2008 – April 2021 **Principal Scientific Officer**, National Centre for Genetic Resources and Biotechnology (NACGRAB), Moor Plantation, Ibadan, Nigeria.
Roles: Management of field gene bank and herbarium, country wide travel for plant collections and surveys, seed bank management, documentation of indigenous and local knowledge especially on medicinal plants, contribution to national biodiversity policies, seed regeneration experiments, micropropagation of plant germplasms using tissue culture, field guide to government officials, and mentoring undergraduate students across Nigerian universities.
- July – September 2016 **Project consultant**, geosUAS Inc., Reno NV
*Roles: Mapping of geophysical and edaphic properties of the critical habitat of *Ivesia webberi*, a U.S. federally threatened plant species in the Great Basin Desert, and providing recommendations of habitat management.*
- March 2004 – February 2005 **Nigeria's National Youth Service Corps (NYSC) placement**, National Centre for Genetic Resources and Biotechnology (NACGRAB), Moor Plantation, Ibadan, Nigeria
Roles: Management of field gene bank, literature reviews on Nigerian biodiversity, and setting up a project to establish seedlings of some threatened tree species in the field gene bank.
- September 2003 - February 2004 **Research Assistantship**, International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria.
Roles: Literature reviews, data collection and management for a PhD student who was working on genotype-environment interaction in water use efficiency of soybeans in Nigeria.

SCIENTIFIC PUBLICATIONS

ACCEPTED AND PUBLISHED JOURNAL ARTICLES [73; $\Sigma(\text{citations})=1930$]

Please visit my google scholar page for citation metrics: <https://scholar.google.com/citations?user=zvXrKpUAAAAJ&hl=en>; Journal impact factor is based on the InCites Journal Citation Reports.

1. Kortz A., Hejda M., Čuda J., Pattison Z., Brůna J., Novoa A., Pergl J., Pipek P., Štajerová K., Anastasiu P., Ansong M., Arianoutsou M., Barcelona J.F., Bhatta S., Bordbar F., **Borokini I.**, Celesti-Grappow L., Chacón-Madriral E., Dawson W., Dorjee, Essl F., Ferrufino-Acosta L., Figueiredo E., Flores R., Fried G., Fuentes N., Galán P., Gilli C., Glaser M., Allende J.R.G., Gudžinskis Z., Holmes R., Hulme P.E., Inderjit, Kang E.S., Kreft H., Krix D.W., Kühn I., Lopez O.R., MacVean A., Makhkamov T., Marchante E., Marchante H., Maroyi A., Meddour R., Meerts P., Muku S.A., Murray B.R., Murray M.L., Nickrent D., Norman P.E., Omer A., Patzelt A., Peller P.B., Pino J., Riera M., Delcid D.R., Rojas-Sandoval J., Rotchés-Ribalta R., Ruiz-Cruz J.Y.S., Senator S., Sennikov A.N., Shrestha B.B., Smith G.F., Sohrabi S., Tokarska-Guzik B., van Kleunen M., Vilà M., Wagner V., Weigelt P., Winter M., Yazlık A., Zykova E., and Pyšek P. (2025). A global synthesis of naturalized and invasive plants in aquatic habitats. *Neobiota* 102: 473-494. <https://doi.org/10.3897/neobiota.102.151156> [journal impact factor (JIF) = 3.0].
2. Kling M.M., González-Ramírez I.S., Carter B., **Borokini I.**, and Mishler B.D. (2024). Spatial phylogenetics and conservation prioritization of Californian bryophytes. *Systematic Botany*. [JIF = 0.9]. Accepted. <https://doi.org/10.1101/2024.12.16.628580>

3. Amano T., Ramírez-Castañeda V., Berdejo-Espinola V., **Borokini I.**, Chowdhury S., Golivets M., González-Trujillo J.D., Montaño-Centellas F., Paudel K., Louise White R., and Veríssimo D. (2024). Language and gender barriers in scientific writing. *PLOS Biology* 23(9): e3003372. <https://doi.org/10.1371/journal.pbio.3003372> [JIF = 9.59]
4. Vandebroek I., Stepp J. R., Kunwar R., Hilgert N., Silva M.T.P., Ladio A.H., Clement C.R., Júnior W.S.F., Towns A.M., **Borokini I.T.**, do Carmo R.F.R., Odonne G., Alves R.R.N., Jacob M.C.M., Shackleton C.M., Timsina S., and Albuquerque U.P. (2025). Upholding ethical accountability in ethnobotany and ethnobiology research. *Economic Botany* editorial. <https://doi.org/10.1007/s12231-025-09634-4> [JIF = 1.7]
5. **Borokini I.T.**, France M.D., Harmon D., Shoemaker K.T., Weisberg P.J., and Peacock M.M. (2025). Seed biology and regeneration niche of the threatened cold desert perennial *Ivesia webberi* A. Gray. *Frontiers in Plant Science* 16: 1568951. <https://doi.org/10.3389/fpls.2025.1568951> [JIF = 4.1]
6. Tegueu Kemeni A.P., Tsbang N., Kuete J., Ba'ane M., Nana E.D., and **Borokini I.T.** (2024). Integrating traditional ecological knowledge in environmental assessment process and biomonitoring of wildlife in south and east regions of Cameroon. *Journal of Medicinal Plants Studies* 13(2): 126-135. <https://www.doi.org/10.22271/plants.2025.v13.i2b.1813>
7. Tseng Y.-H., Kuo L.-Y., **Borokini I.**, and Fawcett S. (2024). The role of deep hybridization in fern speciation: Examples from the Thelypteridaceae. *American Journal of Botany* 111(8): e16388. <https://doi.org/10.1002/ajb2.16388> [JIF = 2.3]
8. Cocciardi J.M., Hoffman A.M., Alvarado-Serrano D.F., Anderson J., Blumstein M., Boehm E.L., Bolin L.G., **Borokini I.T.**, Bradburd G.S., Branch H.A., Brudvig L.A., Chen Y., Collins S.L., Des Marais D.L., Gamba D., Hanan N.P., Howard M.M., Jaros J., Juenger T.E., Kooyers N.J., Kottler E.J., Lau J.A., Menon M., Moeller D.A., Mozdzer T.J., Sheth S.N., Smith M., Toll K., Ungerer M.C., Vahsen M.L., Wadgymar S.M., Waananen A., Whitney K.D., and Avolio M.L. (2024). The value of long-term ecological research for evolutionary insights. *Nature Ecology & Evolution* 8: 1584–1592. <https://doi.org/10.1038/s41559-024-02464-y> [JIF = 13.9]
9. Girón Duque J.C., Balk M., Dahdul W., Lapp H., Mikó I., Alhajjar E., Wynd B., Tarasov S., Lawrence C., Khakurel B., Porto A., Yan L., Fluck I., Porto D., Keating J., **Borokini I.**, Seltsmann K., Montanaro G., and Mabey P. (2024) Meeting report for the Phenoscope TraitFest 2023 with comments on organising interdisciplinary meetings. *Biodiversity Information Science and Standards* 8: e115232. <https://doi.org/10.3897/biss.8.115232> [JIF = 1.1]
10. **Borokini I.T.**, Broderick S.R., Gao Z., Hallas J.M., Birchler J.A., and Peacock M.M. (2023). Potentially adaptive significance of genome size diversity across ecological gradients and seed size in *Ivesia* (Rosaceae). *Western North American Naturalist* 83(3): 301-314. <https://doi.org/10.3398/064.083.0301> [JIF = 0.6]
11. **Borokini I.T.**, Kortz A.R., Anibaba Q.A., Witt A., Aigbokhan E.I., Hejda M., and Pyšek P. (2023). Alien flora of Nigeria: taxonomy, biogeography, habitats, and ecological impacts. *Biological Invasions* 25: 3677-3696. <https://doi.org/10.1007/s10530-023-03140-1> [JIF = 3.61]
12. Amano T., Ramírez-Castañeda V., Berdejo-Espinola V., **Borokini I.**, Chowdhury S., Golivets M., González-Trujillo J.D., Montaño-Centellas F., Paudel K., White R.L., and Veríssimo D. (2023). The manifold costs of being a non-native English speaker in science. *PLOS Biology* 21(7): e3002184. <https://doi.org/10.1371/journal.pbio.3002184> [JIF = 9.59]
13. **Borokini I.T.**, Nussear K., Petitpierre B., Dilts T.E., and Weisberg P.J. (2023). Iterative species distribution modeling results in the discovery of novel populations of a rare cold desert perennial. *Endangered Species Research* 50: 47-62. <https://doi.org/10.3354/esr01218> [JIF = 3.16]
14. **Borokini I.T.**, Klingler K.B., and Peacock M.M. (2021). Life in the desert: The impact of geographic and environmental gradients on genetic diversity and population structure of *Ivesia webberi*. *Ecology and Evolution* 11(23): 17537-17556. <https://doi.org/10.1002/ece3.8389> [JIF = 2.88]
15. Mwampamba T.H., Egoh B.N., **Borokini I.T.**, and Njabo K. (2021). Challenges encountered when doing research back home: Perspectives from African conservation scientists in the diaspora. *Conservation Science and Practice* 4(5): e564. <https://doi.org/10.1111/csp2.564> [JIF = 3.23]
16. McAlvay A.C., Armstrong C.G., Baker J., Black L., Bosco E.S., Hanazaki N., Joseph L., Martínez-Cruz E.T., Nesbitt M., Palmer M.A., de Almeida W.C.P., Anderson J., Asfaw Z., **Borokini I.T.**, Cano-Contreras E.J., Hoyte S., Hudson M., Ladio A.H., Odonne G., Peter S., Rashford J., Wall J., Wolverton S., and Vandebroek I. (2021). Ethnobiology Phase VI: Decolonizing institutions, projects, and scholarship. *Journal of Ethnobiology* 41(2): 170–191. <https://doi.org/10.2993/0278-0771-41.2.170> [JIF = 1.39]
17. **Borokini T.I.**, Weisberg P.J., and Peacock M.M. (2021). Quantifying the relationship between soil seed bank and plant community assemblage in sites harboring the threatened *Ivesia webberi* in the western Great Basin Desert. *Applied Vegetation Science* 24(1): e12547. <https://doi.org/10.1111/avsc.12547> [JIF = 3.57]
18. Mwampamba T.H., **Borokini I.T.**, and Egoh B.N. (2020). Special Section on African Conservation: A periodic opportunity to highlight conservation science from Africa. *Conservation Science and Practice* 2(12): e334. <https://doi.org/10.1111/csp2.334> [JIF = 3.23]

19. Hackenburg D.M., Adams A., Brownson K., **Borokini I.T.**, Gladkikh T.M., Herd-Hoare S.C., Jolly H., Kadykalo A.N., Kraus E.B., McDonough K.R., Morse J.W., Sandhu S.S., Tugjamba N., and Vallet A. (2019). Meaningfully engaging the next generation of ecosystem services specialists. *Ecosystem Services* 40: 101041 <https://doi.org/10.1016/j.ecoser.2019.101041> [JIF = 6.33]
20. Grimaldi I.M., Leke W.N., **Borokini T.I.**, Wanjama D., and van Andel T. (2018). From landraces to modern cultivars: field observations on taro *Colocasia esculenta* (L.) Schott in sub-Saharan Africa. *Genetic Resources and Crop Evolution* 65: 1809–1828. <https://doi.org/10.1007/s10722-018-0651-4> [JIF = 1.07]
21. **Borokini T.I.** (2016). Sanctuary of the Spirits: *Okwu-muo, Ori Oke* and ‘*Mammy Water*’ in the veneration of sacred natural sites in southern Nigeria. *International Journal of Indigenous Heritage* 11: 56 – 70.
22. Mwampamba T.H., Abrams R.W., Awoyemi S., Babalola F.D., **Borokini T.I.**, Egoh B., Idrissi H.R., Koussa T., Nganje M., and O’Leary J. (2016). The implications of globalization for conservation in Africa. *African Journal of Ecology* 54: 133-135. <https://doi.org/10.1111/aje.12322> [JIF = 1.1]
23. Akinloye A.J., **Borokini T.I.**, Adeniji K.A., and Akinnubi F.M. (2015). Comparative anatomical studies of *Artocarpus altilis* (Parkinson) Fosberg and *Artocarpus communis* (J. R. & G. Forster) in Nigeria. *Sciences in Cold and Arid Regions* 7(6): 0709–0721; 10.3724/SP.J.1226.2015.00709 [JIF = 0.6]
24. **Borokini T.I.** (2015). *Okoubaka aubrevillei* (Pelleg. & Norman): A synthesis of existing knowledge for research and conservation in West and Central Africa. *Journal of Biology and Life Science* 6 (1): 67 – 95; <http://dx.doi.org/10.5296/jbls.v6i1.6399>
25. Afolayan A.O., **Borokini T.I.**, and Afolayan G.O. (2014). Sublethal effects of methanolic extract of *Raphia hookeri* on the reproductive capacity of *Clarias gariepinus*. *Advances in Zoology* Volume 2014 Article ID 615908, 10 pages; <http://dx.doi.org/10.1155/2014/615908>
26. **Borokini T.I.** (2014). A systematic compilation of endemic flora in Nigeria for conservation management. *Journal of Threatened Taxa* 6 (11): 6406 – 6426; <http://dx.doi.org/10.11609/JoTT.o4010.6406-26>
27. **Borokini T.I.**, Osewa S.O., Babalola F.D., Alamu O., and Olubiyi M.R. (2014). Adaptation strategies to combating climate variability and extremity among farmers in selected farm settlements in Oyo State, Nigeria. *Albanian Journal of Agricultural Sciences* 13 (3): 32 – 41
28. **Borokini T.I.** and Lawal I.O. (2014). Traditional medicine practices among the Yoruba people of Nigeria: A historical perspective. *Journal of Medicinal Plants Studies* 2 (6): 20-33
29. **Borokini T.I.**, Ayodele A.E., and Akinloye A.J. (2014). Morphological and anatomical studies on *Tacca leontopetaloides* (L.) Kuntze (Taccaceae) in Nigeria. *Research in Plant Biology* 4 (5): 28-44
30. Uyi O.O., Ekhatior F., Ikuenobe C.E., **Borokini T.I.**, Aigbokhan E.I., Egbon I.N., Adebayo A.R., Igbinosa I.B., Okeke C.O., Igbinosa E.O., and Omokhua G.A. (2014). *Chromolaena odorata* invasion in Nigeria: A case for coordinated biological control. *Management of Biological Invasions* 5 (4): 377 – 393; <http://dx.doi.org/10.3391/mbi.2014.5.4.09> [JIF = 2.13]
31. **Borokini T.I.** (2014). A systematic compilation of IUCN Red-Listed Threatened Plant Species in Nigeria. *International Journal of Environmental Sciences* 3 (3): 104 – 133
32. Awosan E.A., Lawal I.O., Ajekigbe J.M., and **Borokini T.I.** (2014). Antimicrobial potential of *Rothmannia longiflora* Salisb and *Canna indica* Linn extracts against selected strains of fungi and bacteria. *African Journal of Microbiology Research* 8 (24): 2376 – 2380; 10.5897/AJMR2013.6360 [JIF = 0.54]
33. Lawyer F.E., Jamaledine Z.O., Lyam P.T., **Borokini T.I.**, Adedeji A.A., and Okere A.U. (2014). Phytohormones influence on the in-vitro regeneration of *Saccharum officinarum* L. from apical meristem culture. *Journal of Biology and Life Science* 5 (2): 85 – 94; doi:10.5296/jbls.v5i2.4885
34. **Borokini T.I.**, Ighere D.A., Clement M., Ajiboye T.O., and Alowonle A.A. (2013). Ethnobiological survey of traditional medicine practices in Oyo State. *Journal of Medicinal Plants Studies* 1 (5): 1 – 16
35. **Borokini T.I.**, Ighere D.A., Clement M., Ajiboye T.O., and Alowonle A.A. (2013). Ethnobiological survey of traditional medicine practice for women’s health in Oyo State. *Journal of Medicinal Plants Studies* 1 (5): 17 – 29
36. **Borokini T.I.**, Ighere D.A., Clement M., Ajiboye T.O., and Alowonle A.A. (2013). Ethnobiological survey of traditional medicine practice for the treatment of piles and Diabetes mellitus in Oyo State. *Journal of Medicinal Plants Studies* 1 (5): 30 – 40
37. **Borokini T.I.** (2013). Overcoming financial challenges in the management of botanic gardens in Nigeria: A review. *International Journal of Environmental Sciences* 2 (2): 87 – 94
38. **Borokini T.I.** (2013). The State of ex-situ conservation in Nigeria. *International Journal of Conservation Science* 4 (2): 197 – 212
39. **Borokini T.I.**, Clement M., Dickson N.J., and Edagbo D.E. (2013). Ethnobiological survey of traditional medicine practice for skin related infections in Oyo State, Nigeria. *Topclass Journal of Herbal Medicine* 2 (6): 103 – 110

40. **Borokini T.I.**, Clement M., Dickson N.J., and Edagbo D.E. (2013). Ethnobiological survey of traditional medicine practice for circulatory and nervous system related diseases in Oyo State, Nigeria. *Topclass Journal of Herbal Medicine* 2 (6): 111 – 120
41. **Borokini T.I.**, Clement M., Dickson N.J., and Edagbo D.E. (2013). Ethnobiological survey of traditional medicine practice for fevers and headaches in Oyo State, Nigeria. *Topclass Journal of Herbal Medicine* 2 (6): 121 – 130
42. **Borokini T.I.**, Clement M., Dickson N.J., and Edagbo D.E. (2013). Ethnobiological survey of traditional medicine practice for Gastro-intestinal tract infections in Oyo State, Nigeria. *Topclass Journal of Herbal Medicine* 2 (6): 131 – 139
43. **Borokini T.I.**, Clement M., Dickson N.J., and Edagbo D.E. (2013). Ethnobiological survey of traditional medicine practice for men's reproductive health in Oyo State, Nigeria. *Topclass Journal of Herbal Medicine* 2 (6): 140 – 148
44. Babalola F.D., **Borokini T.I.**, Onefeli A.O., and Muchie M. (2013). Socio-economic contributions of an indigenous tree in urban areas of southwest Nigeria. *African Journal of Science, Technology, Innovation and Development* 5 (6): 479-489; <http://dx.doi.org/10.1080/20421338.2013.820449>
45. **Borokini T.I.**, Onefeli A.O., and Babalola F.D. (2013). Inventory analysis of *Milicia excelsa* (Welw. C.C. Berg.) in Ibadan (Ibadan Metropolis and University of Ibadan), Nigeria. *Journal of Plant Studies* 2 (1): 97 – 109; <http://dx.doi.org/10.5539/jps.v2n1p97>
46. Lawal I.O., Ige P.O., Awosan E.A., **Borokini T.I.**, and Amao O.A. (2013). Growth assessment of endangered *Aframomum sceptrum* (Braun) under different planting regime for sustainable utilization. *African Journal of Agricultural Research* 8 (31): 4184 – 4188; <https://doi.org/10.5897/AJAR10.125> [JIF = 0.26]
47. **Borokini T.I.** and Ayodele A.E. (2012). The pollen morphology of *Tacca leontopetaloides* (L.) Kuntze in Nigeria. *African Journal of Plant Science* 6 (1): 43 – 47; <https://doi.org/10.5897/AJPS11.171>
48. **Borokini T.I.** and Uzokwe N.E. (2012). Potting media and pot sizes and their effects on the growth of *Sterculia setigera* seedlings. *Obeche* 30 (1): 414-416
49. **Borokini T.I.** and Omotayo F.O. (2012). Phytochemical and ethnobotanical study of some selected medicinal plants from Nigeria. *Journal of Medicinal Plant Research* 6 (7): 1106 – 1118; 10.5897/JMPR09.430 [JIF = 0.88]
50. Omotayo F.O. and **Borokini T.I.** (2012). Comparative phytochemical and ethnomedicinal survey of medicinal plants in Nigeria. *Scientific Research and Essays* 7 (9): 989 – 999; 10.5897/SRE09.525 [JIF = 0.45]
51. **Borokini T.I.** and Clement M. (2012). Ethnomedicinal significance and conservation status of tree barks sold in herbal markets in Ibadan, Southwest Nigeria. *International Journal of Current Research* 4 (3): 31 – 36
52. **Borokini T.I.** (2012). Ethnomedicinal significance, mineral composition, and phytochemical constituents of *Carica papaya* in Oyo state, Nigeria. *International Journal of Current Research* 4 (3): 43 – 48
53. **Borokini T.I.**, Babalola F.D., Amusa T.O., Ivande S.T., Wala Z.J., Jegede O.O., Tanko D., and Ihuma J.O. (2012). Tropical montane forest biodiversity in Nigeria – Case study of Ngel Nyaki forest reserve, Mambilla Plateau. *International Journal of Environmental Sciences* 1 (2): 95 – 104
54. **Borokini T.I.**, Babalola F.D., Amusa T.O., Ivande S.T., Wala Z.J., Jegede O.O., Tanko D., and Ihuma J.O. (2012). Community-based Forest resources management in Nigeria: Case study of Ngel Nyaki Forest Reserve, Mambilla Plateau, Taraba State, Nigeria. *Journal of Tropical Forestry and Environment* 2 (1): 69 – 76
55. Babalola F.D., Amusa T.O., Wala Z.J., Ivande S.T., Ihuma J.O., **Borokini T.I.**, Jegede O.O., and Tanko D. (2012). Spatial distribution of turaco-preferred food plants in Ngel Nyaki forest reserve, Mambilla Plateau, Taraba State, Nigeria. *Biodiversity* 13 (2): 100-107; <http://dx.doi.org/10.1080/14888386.2012.692175>
56. Ighere D.A., Edagbo D.E., **Borokini T.I.**, Alowonle A.A., and Clement M. (2012). Herbs used by the Urhobo people in Delta State Nigeria for the treatment of typhoid fever. *International Journal of Recent Scientific Research* 3 (6): 478 – 481
57. Uzokwe E., **Borokini T.I.**, Lawal I., Audu I., and Adams A. (2012). Estimating the leaf area of *Irvingia gabonensis* (Aubry-Lecomte ex O'Rorke) from linear measurement. *Journal of Plant Studies* 1 (2): 68 – 74; 10.5539/jps.v1n2p68
58. **Borokini T.I.** and Afolayan A.O. (2012). Ecological studies on *Aerangis biloba* (Lindl.) Schltr. Orchidaceae in NACGRAB field gene bank, southwestern Nigeria. *Journal of Threatened Taxa* 4 (11): 3075 – 3081
59. **Borokini T.I.** and Ayodele A.E. (2012). Phytochemical screening of *Tacca leontopetaloides* (L.) Kuntze collected from four geographical locations in Nigeria. *International Journal of Modern Botany* 2 (4): 97 – 102; 10.5923/j.ijmb.20120204.06
60. **Borokini T.I.** and Babalola F.D. (2012). Management of invasive plant species in Nigeria through economic exploitation: lessons from other countries. *Management of Biological Invasions* 3 (1): 45 – 55; <http://dx.doi.org/10.3391/mbi.2012.3.1.05> [JIF = 2.13]
61. Onefeli A.O., Babalola F.D., and **Borokini T.I.** (2012). Volume prediction for *Milicia excelsa* (Welw C.C. Berg) trees in selected institutions in Ibadan, Oyo State, Nigeria. *Journal of Agricultural Science and Environment* 12 (1): 26 – 38

62. **Borokini T.I.** (2012). The challenges of forest biodiversity conservation under climate change stress in Nigeria. *International Journal of Basic and Applied Sciences* 1 (2): 140-147
63. Uzokwe N.E., **Borokini T.I.**, and Adewole E.O. (2011). Response of *Albizia lebbbeck* (Linn.) Benth. to liquid and solid manure application on different soil media. *Obeche* 29 (1): 151 – 156
64. **Borokini T.I.**, Ajiboye T.O., Edagbo D., Ighere D.A., Alowonle A.A., and Clement M. (2011). Ethnobiological uses of plants and animals in the field gene bank of National Centre for Genetic Resources and Biotechnology, Ibadan, Nigeria. *Obeche* 29 (2): 230 – 244
65. **Borokini T.I.** (2011). Utilization of non-timber forest products for economic development in Nigeria. *Nature and Faune* (FAO) 25 (2): 68 – 71
66. **Borokini T.I.**, Lawyer F.E., and Ayodele A.E. (2011). In vitro propagation of *Tacca leontopetaloides* (L.) Kuntze in Nigeria. *Egyptian Journal of Biology* 13: 51 – 56; doi.org/10.4314/ejb.v13i1.8
67. Ighere D.A., Ajiboye T.O., Edagbo D.E., **Borokini T.I.**, Alowonle A.A., Michael C., Giwa A., and Adeyemo A. (2011). Ethno-botanical survey of local herbs used for the treatment of Malaria fever among the Urhobo people in Delta State, Nigeria. *International Journal of Current Research* 3 (11): 336 – 339
68. **Borokini T.I.** (2011). Diversity, distribution, and utilization of urban trees in Ibadan, Southwest Nigeria. *Nature and Faune* (FAO) 26 (1): 54 – 59
69. Lawal I.O., **Borokini T.I.**, Oyeleye A., Williams O.A., and Olayemi J.O. (2011). Evaluation of extract of *Ficus exasperata* Vahl root bark for antimicrobial activities against some strains of clinical isolates of bacterial and fungi. *International Journal of Modern Botany* 2 (1): 6 – 12; 10.5923/j.ijmb.20120201.02
70. **Borokini T.I.** (2011). Invasive alien plant species in Nigeria and their effects of Biodiversity Conservation. *Tropical Conservation Science* 4: 103 – 110; https://doi.org/10.1177/194008291100400110 [JIF = 1.61]
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72. Lawal I.O., Igboanugo A.B.I., Osikarbor B., Duyilemi O.P., Adesoga A.A., **Borokini T.I.**, and Adeyanju B.A. (2010). Evaluation of plant based non-timber forest products (ntfps) as potential bioactive drugs in south-western Nigeria. *Journal of Clinical Medicine and Research* 3(4): 66 – 71; https://doi.org/10.5897/JCMR.9000023
73. **Borokini T.I.** (2010). Biodiversity conservation and climate change in Nigeria. *Nature and Faune* (FAO) 25 (1): 69 – 79

MANUSCRIPT IN PREP OR REVIEW (as of November 2025)

1. **Borokini I.T.**, Allen J.M., Smith S.A., Guralnick R., Soltis P.S., Soltis D.E., Laffan S.W., and Mishler B.D. (2025). Trait diversity – a novel phylodiversity measure to investigate eco-evolutionary mechanisms of community assembly. *Manuscript in prep.*
2. Owuor M.A., Seehausen O., **Borokini I.**, Abila R., Githiora Y.W., Speranza C.I., Njau M.G., Ngila P., Chiawo D., Valenzano D.R., Awala G.N., Akite P., Gross R.B., Alila D.O., Agonvonon G.A., and Mahulu A. (2025). Ecology in Africa: historical perspectives, present state and prospects. *Nature Ecology and Evolution*. *In review*. https://doi.org/10.32942/X24S7F
3. Castillo M.L., **Borokini I.T.**, Pyšek P., Novoa A. (2024). Global niche change analyses in invasive *Carpobrotus* hybrid complex. *Manuscript in prep.*
4. Mpayimana D., **Borokini I.**, and Kaplin B. (2024). Species distribution modeling of medicinal and bioculturally significant plants in Rwanda. *Manuscript in prep.*
5. Dawson W., Blumenthal D., Čuda J., Duncan R.P., Frohlich D., Hejda M., Liu Y., Novoa A., Oduor A.M.O., Pergl J., Pipek P., Pivello V.R., Pyšek P., Richardson D.M., Štajerová K., SynHab contributors (Anastasiu P., Ansong M., Arianoutsou M., Barcelona J.F., Bhatta S., Bordbar F., **Borokini I.**, Bruna J., Celesti L., Chacón-Madrigal E., Dorjee, Essl F., Figueiredo E., Fried G., Fuentes N., Gilli C., Glaser M., Allende J.R.G., Gudžinskas Z., Holmes R., Hulme P.E., Inderjit, Kang E.S., Krix D.W., Kühn I., Makhkamov T., Maříková-Moodley D., Maroyi A., Meddour R., Meerts P., Mukul S.A., Murray B.R., Murray M.L., Nickrent D., Norman P.E., Omer A., Patzelt A., Pelsner P.B., Pino J., Riera M., Rojas-Sandoval J., Rotchés-Ribalta R., Senator S., Shrestha B.B., Smith G.F., Sohrabi S., Tokarska-Guzik B., Vilà M., Wagner V., Yazlik A., Zykova E.), and Kortz A. (2024). Invasive species in grasslands. Chapter 16. In: Routledge Handbook of Grasslands. *In review*.

BOOKS AND EDITED PROCEEDINGS

1. **Borokini T.I.** and Babalola F.D. (eds.) (2016). MDGs to SDGs: Toward sustainable biodiversity conservation in Nigeria. Proceedings of the joint biodiversity conservation conference of Nigeria Tropical Biology Association (NTBA) and Nigeria chapter of Society for Conservation Biology (NSCB), University of Ilorin, Ilorin, Nigeria, June 20 – 24, 2016.
2. Babalola F.D., Coker M.O., and **Borokini T.I.** (eds.) (2012). People and biodiversity conservation in the 21st century, 85pp. Nigerian Tropical Biology Association 3rd Annual Seminar, University of Ibadan, Nigeria, 25th September 2012.
3. **Borokini T.I.** (2011). Conservation and utilization of medicinal plants in Nigeria. A review of the conservation and utilization of medicinal and aromatic plants (MAPs). LAP-Lambert Academic Publishing GmbH and Company, KG. Germany, 69pp.
4. **Borokini T.I.** (2010). Biodiversity conservation in Nigeria. Biodiversity assessment at field gene bank of National Centre for Genetic Resources and Biotechnology, Nigeria. LAP Lambert Academic Publishing GmbH and Company, KG. Germany, 47pp.

IUCN RED LIST OF THREATENED SPECIES ASSESSMENTS

1. **Borokini T.I.**, Rivers M.C., and Wheeler L. (2015). *Okoubaka aubrevillei*. The IUCN Red list of threatened species 2015: e.T71022951A71022977. <http://dx.doi.org/10.2305/IUCN.UK.2015-4.RLTS.T71022951A71022977.en>
2. **Borokini T.I.**, Rivers M.C., and Wheeler L. (2015). *Okoubaka michelsonii*. The IUCN Red list of threatened species 2015: e.T71022930A71022939. <http://dx.doi.org/10.2305/IUCN.UK.2015-4.RLTS.T71022930A71022939.en>

DATA PUBLICATIONS

1. **Borokini I.T.**, Wong L.J., and Pagad S. (2019). Global Register of Introduced and Invasive Species- Nigeria. Version 1.2. Invasive Species Specialist Group ISSG. Checklist dataset <https://doi.org/10.15468/gobtho> accessed via GBIF.org on 2019-08-23.

SCIENTIFIC REPORTS

1. Gasalla M.A., Tittensor D.P., Kok K., Archer E., **Borokini I.**, Halouani G., Matias D.M., Mbiba M., Milner-Gulland E.J., Pacheco P., Fabricius C., and Kieling D. (2022). Chapter 5: Future scenarios of sustainable use of wild species. In: Thematic Assessment Report on the Sustainable Use of Wild Species of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services. Fromentin J.M., Emery M., Donaldson J., Danner M.C., Hallosserie A., and Kieling D. (eds.). IPBES secretariat, Bonn, Germany. <https://doi.org/10.5281/zenodo.6451922>

OTHER CONTRIBUTIONS

1. **Borokini T.I.** (2013). Lake Chad: The disappearing inland Lake. In: Howarth R.W. (ed.), Biomes and Ecosystems encyclopaedia (4 volumes). Salem Press, New Jersey, 1440 pp. ISBN: 978-1-4298-3813-9
2. **Borokini T.I.** (2013). Niger Delta swamp forests: A biodiverse forest ecosystem threatened by oil exploration and deforestation. In: Howarth R.W. (ed.), Biomes and Ecosystems encyclopaedia (4 volumes). Salem Press, New Jersey, 1440 pp. ISBN: 978-1-4298-3813-9
3. **Borokini T.I.** (2013). River Niger: A river of rivers in the desert. In: Howarth R.W. (ed.), Biomes and Ecosystems encyclopaedia (4 volumes). Salem Press, New Jersey, 1440 pp. ISBN: 978-1-4298-3813-9
4. **Borokini T.I.** (2013). Sahara Desert: Snowfall in the hottest desert of the world In: Howarth R.W. (ed.), Biomes and Ecosystems encyclopaedia (4 volumes). Salem Press, New Jersey, 1440 pp. ISBN: 978-1-4298-3813-9

CONFERENCE PRESENTATIONS, INVITED TALKS, AND PUBLIC OUTREACH

ORAL AND POSTER PRESENTATIONS

1. Schmidt H.H., Linan A.G., Asase A., **Borokini I.**, Colwell A., Davis C., et al. (2025). Digitization and Enrichment of U.S. Herbarium Data from Tropical Africa to Enable Urgent Quantitative Conservation Assessments. Oral presentation at the 23rd Association pour l'Etude Taxonomique de la Flore d'Afrique Tropicale (AETFAT), Accra, Ghana; August 3–8, 2025.
2. **Borokini I.T.**, Mishler B.D., and Laffan S. (2025). Spatial phylogenetics of African spermatophytes and pteridophytes. Oral presentation at the 23rd Association pour l'Etude Taxonomique de la Flore d'Afrique Tropicale (AETFAT), Accra, Ghana; August 3–8, 2025.

3. Schmidt H.H., Linan A.G., Asase A., **Borokini I.**, Colwell A., Davis C., et al. (2025). Digitization and Enrichment of U.S. Herbarium Data from Tropical Africa to Enable Urgent Quantitative Conservation Assessments. Oral presentation at the Botanical Society of America (BSA) Botany 2025 conference, Palm Springs, California, United States; July 26–30, 2025.
4. **Borokini I.T.**, Allen J.M., Smith S.A., Guralnick R., Soltis P.S., Soltis D.E., Laffan S.W., and Mishler B.D. (2025). Trait diversity – a novel method for investigating the role of functional traits in community assemblages and biogeography. Oral presentation at the BSA Botany 2025 conference, Palm Springs, California, United States; July 26–30, 2025.
5. Mishler B.D., Kling M.M., González-Ramírez I.S., Carter B., and **Borokini I.** (2025). California bryophytes: evolution and conservation in a biodiversity hotspot using novel continuous metrics for spatial phylogenetics. Oral presentation at the BSA Botany 2025 conference, Palm Springs, California, United States; July 26–30, 2025.
6. Walters A., Peers A., Lohr M., France M., and **Borokini, I.** (2025). An assessment of ecological resilience of plant communities to climate change across the United States. Poster presentation at the 2025 Student Research Celebration Symposium, Montana State University, Bozeman, Montana, United States; April 24, 2025.
7. Raban K., Poxleitner A., Kisner A., Abuksis N., **Borokini I.**, and Sapir Y. (2025). Disparity in range size and ecological niches of flower color polymorphic species and their monomorphic sister taxa. Poster presentation at the 2025 Student Research Celebration Symposium, Montana State University, Bozeman, Montana, United States; April 24, 2025.
8. **Borokini I.T.**, Walters A., Peers A., Lohr M., and France M.D. (2025). Assessing the ecological community resilience of plant communities across the United States. Presentation at the Annual International Association of Landscape Ecology - North America, Raleigh, North Carolina, United States; April 13-17, 2025.
9. Barberá P., Asase A., **Borokini I.T.**, Colwell A., Davis C.C., Franz N.M., et al. (2024). Digitization and Enrichment of U.S. Herbarium Data from Tropical Africa to Enable Urgent Quantitative Conservation Assessments. 20th International Botanical Congress, Madrid, Spain; July 21–28, 2024.
10. Mishler B.D., González-Ramírez I., McLaughlin J., Carter B., Kling M., and **Borokini I.** (2024). California bryophytes: evolution and conservation in a biodiversity hotspot. 20th International Botanical Congress, Madrid, Spain; July 21–28, 2024.
11. **Borokini I.T.**, Mishler B.D., and Laffan S. (2024). Revisiting the patterns of African flora biodiversity using spatial phylogenetics. 20th International Botanical Congress, Madrid, Spain; July 21–28, 2024.
12. **Borokini I.T.**, Mishler B.D., Thornhill A., and Laffan S. (2024). The role of traits in community assemblages across Mediterranean-type ecosystems. 20th International Botanical Congress, Madrid, Spain; July 21–28, 2024.
13. Mpayimana D., **Borokini I.T.**, and Kaplin B.A. (2024). Species distribution modeling of medicinal and culturally significant plants in Rwanda. 60th Annual meeting of the Association of Tropical Biology and Conservation (ATBC), Kigali, Rwanda; July 14–18, 2024.
14. Mpayimana D., **Borokini I.T.**, and Kaplin B.A. (2024). Species distribution modeling of medicinal and culturally significant plants in Rwanda. International Association of Landscape Ecology (IALE) North America Annual Meeting, Oklahoma City, Oklahoma, United States; April 1–5, 2024.
15. **Borokini I.T.**, Laffan S., Knapp W., and Mishler B.D. (2024). Revisiting the spatial phylogenetics of North American seed plants. 11th International Biogeography Society biennial conference, Prague, Czech Republic, January 7–11, 2024.
16. **Borokini I.T.**, Kortz A., Anibaba Q., Witt A., Aigbokhan E., Hejda M., and Pyšek P. (2023). Biogeography, taxonomic structure, and ecological impacts of alien plants in Nigeria. 16th Ecology and Management of Alien Plant Invasions (EMAPI), Pucón, Chile; October 23–27, 2023.
17. **Borokini I.T.** and Eniang E.A. (2023). Managing biodiversity and working with local communities living within a biodiversity hotspot in Nigeria. 31st International Congress for Conservation Biology (ICCB), Society for Conservation Biology (SCB), Kigali, Rwanda; July 23–27, 2023.
18. **Borokini I.T.** and Peacock M.M. (2023). Drivers of pairwise genetic distance among the populations of a threatened and rare desert species. 31st ICCB, SCB, Kigali, Rwanda; July 23–27, 2023.
19. **Borokini I.T.**, Nussear K., Petitpierre B., Dilts T.E., and Weisberg P.J. (2023). Integration of iterative species distribution modeling and field surveys of a federally threatened desert perennial. Species on the Move 2023 conference, Bonita Springs, Florida, United States; May 14–19, 2023.
20. **Borokini I.T.** and Mishler B.D. (2022). Spatial phylogenetics: an important tool for conservation-drive land management in California. California Native Plant Society (CNPS) 2022 conference, San Jose CA, United States; October 20–22, 2022.
21. Mishler B.D., **Borokini I.T.**, and Carter B.E. (2022). Conservation assessment of California mosses using spatial phylogenetic methods. CNPS 2022 conference, San Jose California, United States; October 20–22, 2022.
22. **Borokini I.T.** (2022). Developing networks for biodiversity conservation in Africa. INTECOL2022: International Association for Ecology annual meeting, Geneva, Switzerland; August 28–September 2, 2022.

23. **Borokini I.T.**, Allen J.M., Smith S.A., Guralnick R., Soltis P.S., Soltis D.E., Laffan S.W., and Mishler B.D. (2022). Trait diversity – a novel phylodiversity measure to investigate eco-evolutionary mechanisms of community assembly. BSA Botany annual conference, Anchorage, Alaska, United States; July 24–27, 2022.
24. **Borokini I.T.**, Chan J., Chang K., Cummings H., Karakoç C., and Potratz W. (2022). Taxonomic and biogeographic patterns of plant introductions and invasion in Nigeria, West Africa. 6th North American Congress for Conservation Biology (NACCB), Reno, Nevada, United States; July 18–21, 2022.
25. **Borokini I.T.**, Nussear K., Petitpierre B., Dilts T.E., and Weisberg P.J. (2022). Iterative ecological niche modeling and field surveys of the rare *Ivesia webberi*. 10th International Biogeography Society (IBS) biennial conference, Vancouver, Canada; June 2–6, 2022.
26. **Borokini I.T.**, Nussear K., Dilts T.E., and Weisberg P.J. (2022). Conservation implications of the discovery of new locations of a threatened species using iterative ensemble niche modeling. 11th Northern California Botanists (NCB) symposium, virtual; January 11–12, 2022.
27. **Borokini T.I.**, Klingler K.B., and Peacock M.M. (2021). Spatial genetic structure and functional connection in *Ivesia webberi*. 30th ICCB, SCB, virtual; December 6–17, 2021.
28. **Borokini T.I.** (2021). Ethnobotanical knowledge of the traditional medicinal practices in southwestern Nigeria. 15th International Herb Symposium (HIS) virtual conference, virtual; June 10–13, 2021.
29. **Borokini T.I.** (2020). Quantifying the relationship between soil seed bank and plant community assemblage in *Ivesia webberi* A. Gray populations. 47th Natural Areas conference, Natural Areas Association, virtual; October 1–12, 2020.
30. **Borokini T.I.**, Broderick S.R., Peacock M.M., and Birchler J.A. (2020). Variations in the nuclear genomic size in *Ivesia* from western North America and its taxonomic implications. 10th NCB symposium, California State University, Chico, California, United States; January 13–14, 2020.
31. **Borokini T.I.**, Witt A., and Aigbokhan E.A. (2019). Taxonomic structure and biogeographic patterns of introduced plant species in Nigeria. 29th ICCB, SCB, Kuala Lumpur, Malaysia; July 21–25, 2019.
32. **Borokini T.I.** and Peacock M.M. (2019). Seed germination and viability studies in *Ivesia webberi* A. Gray. 9th NCB symposium, California State University, Chico, California, United States; January 14–16, 2019.
33. **Borokini T.I.** (2018). Conservation and ecosystem services of sacred natural sites in Nigeria. A community of ecosystem services (ACES) 2018 conference, Washington District of Columbia, United States; December 3–6, 2018.
34. **Borokini T.I.** (2018). The impact of heavy exploitation of invasive alien plant species on their management and control in Nigeria. 2018 Cal-IPC symposium, California Invasive Plant Council (Cal-IPC), Monterrey, California, United States; November 7–10, 2018.
35. **Borokini T.I.** and Peacock M.M. (2018). Species diversity in the soil seed bank and above-ground communities of selected *Ivesia webberi* A. Gray population sites. 4th NACCB Society for Conservation Biology North America, Toronto, Canada; July 21–26, 2018.
36. **Borokini T.I.** and Peacock M.M. (2018). Species diversity in the soil seed bank and aboveground communities of selected *Ivesia webberi* A. Gray population sites. Nevada rare plant workshop 2018, Nevada Native Plant Society (NNPS) and Nevada Natural Heritage Program (NNHP), San Rafael Regional Park, Reno, Nevada, United States; April 5–6, 2018.
37. **Borokini T.I.**, Weisberg P.J., and Dilts T.E. (2018). Ecological niche modelling of *Ivesia webberi* A. Gray in Nevada and California. CNPS 2018 conservation conference, Los Angeles, California, United States; February 1–3, 2018.
38. Babalola F.D., **Borokini T.I.**, and Onefeli A.O. (2017). Urban forest as sanctuary for a threatened indigenous tree species in southwest Nigeria. 125th anniversary congress of IUFRO, Freiburg, Germany; September 17–22, 2017.
39. **Borokini T.I.**, Weisberg P.J., and Dilts T.E. (2017). Species distribution modelling of *Ivesia webberi* A. Gray in Nevada and California. 28th ICCB, SCB, Cartagena, Colombia; July 23–27, 2017.
40. **Borokini T.I.** (2017). Interacting with traditional institutions on ethnomedicinal and native sacred plants: case study in Nigeria. Symposium presentation, 28th ICCB, SCB, Cartagena, Colombia; July 23–27, 2017.
41. **Borokini T.I.**, Lebbie A., and Akotto F.A. (2017). Review of endemic vascular flora in the Guinean forests of West Africa. 8th IBS biennial conference, Tucson, Arizona, United States; January 9–13, 2017.
42. **Borokini T.I.**, Lebbie A., and Akotto F.A. (2016). Review of endemic vascular flora in the Guinean forests of West Africa. 3rd African Congress for Conservation Biology (ACCB), Society for Conservation Biology Africa, El Jadida, Morocco; September 4–8, 2016.
43. **Borokini T.I.**, Weisberg P.J., and Peacock M.M. (2016). Ecological niche modelling of *Ivesia webberi* Gray in Nevada and California. NACCB, Society for Conservation Biology North America Section, Madison, Wisconsin, United States; July 17–20, 2016.
44. **Borokini T.I.** (2016). Maintenance of genetic diversity among captive animals in Nigerian zoological gardens. Joint biodiversity conservation conference of Nigeria Tropical Biology Association (NTBA) and Nigeria Chapter of Society for Conservation Biology (NSCB), University of Ilorin, Ilorin, Nigeria; June 20–24, 2016.

45. Babalola F. and **Borokini T.** (2014). Threats to indigenous beliefs and cultural practises used in forest protection: case study from southwest Nigeria. XXIV IUFRO World Congress, Salt Lake City, Utah, United States; October 5–11, 2014.
46. **Borokini T.I.** and Babalola F.D. (2013). A systematic compilation of endemic plants in Nigeria for conservation management. 4th NTBA conference, University of Lagos, Lagos, Nigeria; July 2–4, 2013.
47. **Borokini T.I.** and Ayodele A.E. (2012). Ecogeographical variation of *Tacca leontopetaloides* (L.) Kuntze (Taccaceae) in Nigeria. 21st Botanical Society of Nigeria (BOSON) annual conference, Obafemi Awolowo University, Ile-Ife, Nigeria; June 3–7, 2012.
48. **Borokini T.I.** (2012). Ethnomedicinal significance, mineral composition, and phytochemical constituents of *Carica papaya* in Oyo State, Nigeria. 21st BOSON annual conference, Obafemi Awolowo University, Ile-Ife, Nigeria; June 3–7, 2012.
49. **Borokini T.I.** (2012). Medicinal Significance and nutritional value of *Moringa oleifera* in Nigeria: A review. First Moringa international conference, University of Ilorin, Ilorin, Nigeria; September 11, 2012.
50. **Borokini T.I.** and Ojo A.V. (2012). Changing climate in Sahel savannah of Nigeria: evidence, effects, and adaptation strategies. Alexander von Humboldt Kolleg International Conference, University of Maiduguri (held at DRACC, Abuja), Nigeria; December 11–13, 2012.
51. **Borokini T.I.** and Clement M. (2012). Ethnomedicinal significance and conservation status of tree barks sold in herbal markets in Ibadan, Southwest Nigeria. 2nd annual conference of the Association of Women in Forestry and Environment (AWIFE), Forestry Research Institute of Nigeria, Ibadan, Nigeria; November 6, 2012.
52. **Borokini T.I.**, Babalola F.D. and Oneferi A.O. (2012). Trees in Urban area: survey of Iroko (*Milicia excelsa* Welw. C.C Berg.) trees in Ibadan Metropolis, Oyo state, Nigeria. 3rd biennial national conference of the Forests and Forest Products Society (FFPS), University of Ibadan, Ibadan, Nigeria; April 3–6, 2012.
53. **Borokini T.I.** (2012). Diversity and utilization of urban trees in Ibadan Metropolis, Southwest Nigeria. 3rd FFPS biennial national conference, University of Ibadan, Ibadan, Nigeria; April 3–6, 2012.
54. **Borokini T.I.** and Clement M. (2012). Ethnomedicinal significance and conservation status of tree barks in herbal markets in Ibadan, Southwest Nigeria. 3rd FFPS biennial national conference, University of Ibadan, Ibadan, Nigeria; April 3–6, 2012.
55. Babalola F.D., Osho A.O., and **Borokini T.I.** (2012). Emerging initiatives in the production and consumption of bioenergy and biofuels: learning from global experiences. Jatropha plant: panacea for global warming and sustainable development conference, University of Ilorin, Ilorin, Nigeria; April 16–18, 2012.
56. Babalola F.D., Amusa T.O., Wala Z.J., Ivande S.T., Ihuma J.O., **Borokini T.I.**, Jegede O.O., and Tanko D. (2012). Survey of and threats to Turacos preferred food plants in Ngel Nyaki forest reserve, Mambilla Plateau, Taraba State, Nigeria. 3rd NTBA annual seminar, University of Ibadan, Ibadan, Nigeria; September 25, 2012.
57. **Borokini T.I.** and Babalola F.D. (2012). Issues on threatened taxa of Nigeria: A call for conservation action. 3rd NTBA annual seminar, University of Ibadan, Ibadan, Nigeria; September 25, 2012.
58. **Borokini T.I.** (2011). The challenges of forest biodiversity conservation under climate change stress in Nigeria. International Conference, Albert Ludwig University of Freiburg, Freiburg, Germany; September 21–23, 2011.
59. **Borokini T.I.** and Lawyer F.E. (2011). In-vitro propagation of *Tacca leontopetaloides* (L.) Kuntze. 11th Annual scientific conference of the Nigerian Society of Experimental Biology (NISEB), University of Lagos, Lagos, Nigeria; March 28–April 2, 2011.
60. **Borokini T.I.** (2011). Community-based Forest resources management in Nigeria: Case study of Ngel Nyaki Forest Reserve, Mambilla Plateau, Taraba State, Nigeria. 4th annual conference of the Institute of Ecology and Environmental Studies, Obafemi Awolowo University, Ile-Ife, Nigeria; June 28–30, 2011.
61. **Borokini T.I.** (2010). Application of bioresources for poverty alleviation in Nigeria. 2nd NTBA annual seminar, University of Ibadan, Ibadan, Nigeria; September 24, 2010.
62. **Borokini T.I.** (2010). Conservation, cultivation, and utilization of medicinal and aromatic Plants (MAPs) in Nigeria. 19th BOSON annual conference, Umaru Musa Yar'Adua University, Katsina State, Nigeria; July 26–29, 2010.
63. **Borokini T.I.** (2010). The current trends of deforestation in Nigeria. 19th BOSON annual conference, Umaru Musa Yar'Adua University, Katsina, Nigeria; July 26–29, 2010.
64. Lawal I.O., Uzokwe N.E., Adio A.F., **Borokini T.I.**, Faloye B., Awosan E.A., and Adesoga A.A. (2009). Collection, collation, and identification of some medicinal plants as a means of sustaining forest development in Nigeria. Maiden annual conference of Association of Women in Forestry and Environment (AWIFE), Forestry Research Institute of Nigeria, Ibadan, Nigeria; January 14–15, 2009.
65. Lawal I.O., Olatunji B.P., **Borokini T.I.**, Awosan E.A., Olayemi J.O., and Fadare D.A. (2009). Phytochemical screening and evaluation of *Heinsia crinita* (Afzel.) for its in-vitro activities on some bacterial species. 11th International symposium on drug development: problems and prospects, Obafemi Awolowo University, Ile-Ife, Nigeria; November 22–25, 2009.

INVITED PRESENTATIONS, LECTURES, AND PUBLIC OUTREACH

1. November 1, 2025: Understanding species and plant community responses to climate change. Freshman Research Symposium (HONR 141), Montana State University, Bozeman, Montana, United States.
2. October 30, 2025: Evo-evolutionary analyses of Global South biodiversity needs better data. Invited lightning talk at the BIOFAIR Data Network Open Mic for Data organized by the Biodiversity Collections Network (BCoN), United States.
3. October 15, 2025: Advancing ecology and evolutionary research in the Global South - an African perspective. Plenary presentation during the 2025 Society for Open, Reliable, and Transparent Ecology and Evolutionary biology (SORTEE) virtual conference. Available at <https://www.youtube.com/watch?v=YqBFkkZSTfs>
4. October 13, 2025: Climate change effects on plant species and communities. Invited guest lecture for BIOB 105 (Introduction to Biotechnology) course. Montana State University, Bozeman, Montana, United States.
5. July 15, 2025: Ecological resilience and temporal beta diversity of plant communities across the 20 NEON eco-climatic domains. Invited seminar presentation at the Rocky Mountain Biological Laboratory, Gothic, Colorado, United States.
6. July 4, 2025: Drivers of plant diversity and distributions in an Afrotropical Pleistocene refugium. Invited presentation at the Royal Botanic Garden, Kew, United Kingdom.
7. February 13, 2025: Challenges towards building a globally equitable BIOFAIR network. Invited virtual presentation at the NSF-funded BIOFAIR Data Network workshop organized by the Biodiversity Collections Network (BCoN) and the American Institute of Biological Sciences, Washington D.C., United States.
8. December 3, 2024: Integration of phylogenetic, geospatial, and ecological data to investigate drivers of plant diversity and distributions. Invited virtual seminar presentation for the Institute of Ecology and Evolution, University of Bern Switzerland.
9. November 20, 2024: Integration of Phylogenetic and Ecological Data to Elucidate Drivers of Biological Community Assemblages. Invited Rough Cut seminar presentation for the Montana Institute on Ecosystems, Montana State University, Bozeman, Montana, United States.
10. September 28, 2024: What drives plant diversity and distributions across spatial and temporal scales? Freshman Research Symposium (HONR 141), Montana State University, Bozeman, Montana, United States.
11. February 12, 2024: Species distribution models as scientific tools for hypothesis testing and conservation. Invited seminar of the Department of Land Resources and Environmental Sciences, Montana State University, Bozeman, Montana, United States.
12. February 7, 2024: Eco-evolutionary drivers of biodiversity across multiple spatiotemporal scales. Invited seminar presentation of the College of Letters and Science Wellness seminar series, Montana State University, Bozeman, Montana, United States.
13. October 20, 2023: Trait diversity: a new metric for assessing drivers of community assemblage. Invited seminar presentation of Florida Museum of Natural History, University of Florida, Gainesville, Florida, United States.
14. September 23, 2023: Plant communities under climate change: opportunities and challenges for research. Invited discussion for LRES 593 (Grand Challenges in Ecology and Environmental Sciences) course. Montana State University, Bozeman, Montana, United States.
15. September 15, 2023: Legacy of exotic plant introduction in Nigeria. Invited virtual quarterly presentation for the Coalition for Biodiversity Conservationists of Nigeria.
16. September 8, 2023: Trait diversity: a new metric for assessing drivers of community assemblage. Invited seminar presentation of University and Jepson Herbaria Botany Lunch, University of California, Berkeley, Berkeley, California, United States.
17. August 10, 2023: Applying models of geographical distributions for hypothesis testing and species conservation. Invited virtual monthly seminar presentation of the California Botanical Society.
18. April 28, 2023: Eco-evolutionary processes driving patterns of biodiversity in the United States. Invited seminar presentation of the Ecology and Evolutionary Biology program, University of California, Santa Cruz, Santa Cruz, California, United States.
19. April 11, 2023: Models of species niche and distributions as scientific tools for hypothesis testing. Invited seminar presentation of the School of Earth and Sustainability, Northern Arizona University, Flagstaff, Arizona, United States.
20. March 17, 2023: Eco-evolutionary processes driving spatial floristic diversity in the United States. Invited seminar presentation of Quantitative & Systems Biology colloquium, University of California Merced, Merced, California, United States.
21. March 6, 2023: Modeling of species ecological niche. Invited virtual lecture for BIOL 2403 (Principles of Ecology), Department of Life Sciences, University of the West Indies, Kingston, Jamaica.

22. January 25, 2023: The role of functional trait diversity on plant community assembly across scales. Invited virtual seminar presentation for the Department of Botany and Plant Sciences, University of California Riverside, Riverside, California, United States.
23. November 30, 2022: Combining niche models with genetic markers to understand barriers to gene flow among populations of a desert plant species. Invited virtual seminar presentation for the Department of Ecology and Evolution, University of Bern, Switzerland.
24. November 8, 2022: Ecological niche modeling using museum specimens, and its uses. Invited lecture for ESPM/IB 105 (Natural History Museums and Biodiversity Science) course, University of California Berkeley, Berkeley, California, United States.
25. November 10, 2022: Conservation needs in tropical countries and the role of natural history museums. Invited lecture for ESPM/IB 105 (Natural History Museums and Biodiversity Science) course, University of California Berkeley, Berkeley California, United States.
26. March 16, 2022: Effectiveness of iterative ensemble niche modelling and multiyear field validation to improve model predictive accuracy. Biology Department, San Jose State University, San Jose, California, United States.
27. March 21, 2022: Ecological niche modelling and the Wallacean shortfall. Nigeria Tropical Biology Association bi-monthly seminar.
28. March 2, 2022: Genome size diversity in the North American deserts endemic genus *Ivesia* (Rosaceae). Utah Rare Plant Meeting of the Utah Native Plant Society, United States.
29. November 9, 2021: Ecological niche modelling using museum specimens, and its uses. Invited lecture for ESPM/IB 105 (Natural History Museums and Biodiversity Science) course, University of California, Berkeley, Berkeley, California, United States.
30. July 30, 2021: Do newly discovered locations alter the ecological niche dynamics of the threatened *Ivesia webberi*? Invited presentation at the monthly meeting of the University of Nevada, Reno Postdoctoral Association, Reno, Nevada, United States.
31. September 11, 2020: Taxonomic implications of variations in nuclear genomic size in *Ivesia* from western North America. Invited presentation at the University and Jepson Herbaria Botany Lunch, University of California, Berkeley, California, United States.
32. November 19, 2020: Iterative ecological niche modeling and adaptive sampling resulted in the discovery of novel locations of the threatened *Ivesia webberi*. Invited virtual presentation at the Conservation Lecture series of the California Department of Fish and Wildlife, Sacramento, California, United States.
33. December 17, 2020: Biogeographical inferences from genome size and ecological niche of *Ivesia* Torrey and A. Gray. Invited virtual presentation at the Leipzig University, Leipzig, Germany research seminar for the Molecular Evolution and Plant Systematics research group.
34. February 1, 2020: Seed regeneration and behavior of wire mousetail in the Great Basin Desert. Invited presentation at Galena Creek Visitor Center, Reno, Nevada, United States.
35. July 18, 2019: Native plants of the Great Basin Desert and their historical uses. Invited presentation at the 2019 summer school camp program for K-12 students, Galena Creek Visitor Center, Reno, Nevada, United States.
36. September 6, 2018: *Ivesia webberi* A. Gray is tougher than you think: a field journal presentation. Invited public lecture presented at the Nevada Native Plant Society (NNPS) monthly meeting, Reno, Nevada, United States.
37. February 21, 2016: The Life of Charles Darwin. Public lecture presented at Reno Darwin Day 2016 organized by Secular Student Alliance, Reno Freethinkers, and University of Nevada, Reno, Reno, Nevada, United States.
38. March 5, 2015: The African “Death tree” is dying: African medicinal plants, uses and threats. Public lecture presented at the NNPS monthly meeting, Reno, Nevada, United States.

CONFERENCE SESSIONS AND SYMPOSIA ORGANIZED

1. “African Diaspora Biodiversity Symposium 2.0,” 31st International Congress for Conservation Biology, Kigali, Rwanda, July 25, 2023; Co-organizers: Society for Conservation Biology Africa Section Board of Directors, and the African Biodiversity Collaborative Group.
2. “African Diaspora Biodiversity Symposium,” 6th North American Congress for Conservation Biology, Reno, Nevada, United States, July 20, 2022; Co-organizers: Society for Conservation Biology Africa Section Board of Directors, and the African Biodiversity Collaborative Group (as part of the IUCN Africa Protected Areas Congress, Kigali, Rwanda) July 18-23, 2022.
3. “The contributions of spatial phylogenetics to conservation,” 6th North American Congress for Conservation Biology, Reno, Nevada, United States, July 18, 2022; Co-organizers: Professor Brent Mishler (University of California,

Berkeley, United States), Dr. Julie Allen (University of Nevada, Reno, United States), Dr. Matthew Kling (University of Vermont, United States), and Taliesin Kinser (University of Florida, United States). Accessed at <https://www.youtube.com/playlist?list=PLULUH7ENikDrDgT4ZJJOhaMaIGI7r22J>

4. “Publishing conservation research and evidence: Improving access, inclusion, and diversity,” Virtual 30th International Congress for Conservation Biology, December 15, 2021; Co-organizers: Mukhlish Jamal Musa Holle (University of Oxford, United Kingdom), Dr. Adina Merenlender (University of California, Berkeley, United States), Dr. Melissa Price (University of Hawaii at Manoa, United States), Dr. Diogo Verissimo (University of Oxford), and Natalie Yoh (Durrell Institute of Conservation & Ecology, United Kingdom).
5. “Developing a research agenda for addressing key threats to biodiversity conservation in Africa,” Virtual 30th International Congress for Conservation Biology, December 10, 2021; Co-conveners: Dr. Tuyeni Mwampamba (Universidad Nacional Autónoma de México, Morelia, Mexico), and Dr. Ruth Kinsky (University of Stellenbosch, South Africa).
6. “Facilitating conservation science, policy, and practice through collaboration with faith-based communities,” 4th North American Congress on Conservation Biology, July 23, 2018; Co-organizers: Dr. David Ostergren (Goshen College, Goshen, Indiana), and Prof. Jame Schaefer (Marquette University, Milwaukee, Wisconsin).

CONFERENCE AND SYMPOSIA ATTENDANCE

1. National Ecological Observatory Network (NEON) convergence summit, titled, “Advancing Continental-Scale Biology,” organized at the University of Colorado Boulder, Boulder CO, United States; October 15–17, 2025.
2. 2025 Innovation Summit of Environmental Data Science Innovation and Inclusion Lab (ESIIL), titled, “Environmental Tipping Points & Transformations”, University of Colorado, Boulder CO, United States; September 23–25, 2025.
3. Annual meeting of the American Association for the Advancement of Science (AAAS), titled “Science shaping tomorrow”, Hynes Convention Center, Boston MA, United States; February 13–15, 2025.
4. Eriogonum Society annual meeting, Zion National Park, UT, United States; September 12–15, 2024.
5. 16th Greater Yellowstone Ecosystem Biennial Science Conference, titled “Advancing Conservation in the GYE”, Yellowstone Conference Center, Big Sky MT, United States; September 3–5, 2024.
6. 2024 Innovation Summit of Environmental Data Science Innovation and Inclusion Lab (ESIIL), titled, “Big Data for Environmental Resilience and Adaptation”, University of Colorado, Boulder CO, United States; May 14–16, 2024.
7. 12th Montana Plant Conservation Conference, titled “Restoration of Native Plant Communities”, Montana State University, Bozeman MT, United States; April 11–12, 2024.
8. Research Symposium on “Ancestral Reconstruction and Molecular Evolution.” School of Biotechnology and Biomolecular Sciences, University of New South Wales, Sydney, Australia; March 23–24, 2023.
9. Ninth session of the Plenary of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES 9), United Nations World Conference Center, Bonn, Germany; July 3–9, 2022.
10. Ecological Society of America 2021 virtual conference, titled, “Vital connections in Ecology”, August 2–6, 2021.
11. Science Writers 2021 annual conference (virtual), organized by Council for the Advancement of Science Writers (CASW), and National Association of Science Writers (NASW); October 2–11, 2021.
12. Northern California Writing Centers Association (NCWCA) Conference, titled “Curiosity, collaboration connections: The NCWCA (un)conference,” Santa Clara University, Santa Clara, CA, April 7, 2018.
13. 27th International Congress for Conservation Biology (ICCB) and 4th European Congress for Conservation Biology titled, “Mission Biodiversity: choosing new paths for conservation”, Montpellier, France. July 31 – August 8, 2015.
14. 3rd Annual Conference of the Institute of Ecology and Environmental Studies, Obafemi Awolowo University, Ile-Ife, June 15–17, 2010.

ACTIVE WORKING GROUPS

1. Environmental change, range shifts, and tipping point Working group, ESIIL Innovation Summit, Boulder CO, September 2025 – present.

2. Estimating species richness/occupancy across NEON sites NEON Working group, NEON Convergence summit, Boulder CO, October 2-025 – present.
3. Hummingbird visitation project Working group, ESIL Innovation Summit, Boulder CO, May 2024 – present.
4. Data analysis subcommittee, Africa BioGenome Project, November 2022–present

FUNDING & AWARDS

RESEARCH GRANTS & AWARDS

- 2025
 - **Borokini I.T.** “Comparative correlative and mechanistic SDM of *Erythranthe floribunda*”, National Aeronautics And Space Administration (NASA) EPSCoR Montana Space Grant Consortium (MSGC) Established Program to Stimulate Competitive Research (EPSCoR) research initiation program grant – \$55,673.
 - Environmental Data Science Innovation & Impact Lab (ESIL) Innovation Summit 2025 Travel award - \$1,000.
 - Rocky Mountain Biological Laboratory Research travel award - \$1,000.
 - Research travel award to the Missouri Botanical Garden Herbarium, St Louis, MO - \$1,000.
 - Jungblunth Ecology Research Support award, Department of Ecology, MSU Bozeman - \$5,500.
- 2024
 - Oak Spring Garden Foundation Interdisciplinary summer residency program - \$2,000.
 - Environmental Data Science Innovation & Impact Lab (ESIL) Innovation Summit 2024 Travel award - \$1,000.
 - Walters A. and **Borokini I.T.** “Ecological resilience of plant communities across the United States”, MSU Undergraduate Scholars Program research grant - \$1500.
- 2023
 - Smith S., Soltis P.S., Soltis D.E., Guralnick R.P., Allen J.M., Mishler B.D., and **Borokini I.T.** “NSF Division of Biological Infrastructure: Collaborative Research: BoCP-Implementation: Integrating Traits, Phylogenies and Distributional Data to Forecast Risks and Resilience of North American Plants”, Role: Senior Personnel – trait diversity metric development - \$799,458.
- 2022
 - Peterson A.T., Mishler B.D., Nazaire M., Franz N.M., Linan A. Kramer E., Tarnowsky N., **Borokini I.T.**, et al. “NSF Division of Biological Infrastructure: Digitization and enrichment of U.S. herbarium data from Tropical Africa to enable urgent quantitative conservation assessments”, Role: Senior Personnel – spatial phylogenetics data analysis - \$73,280.
 - Berkeley Postdoctoral Association Professional Development Award (\$1,250)
- 2021
 - **Borokini I.T.**, “Conservation prioritization of the United States flora using metrics of phylodiversity, land management, and vulnerability to climate change”, David H Smith Conservation Research Fellowship at the University of California, Berkeley - \$187,085.
 - United States National Science Foundation (NSF) Postdoctoral Research Fellowship in Biology (2021) – *successful but declined*.
- 2019
 - Native Plant Society of Oregon field research grant - \$750.
 - Grant-in-aid program, Utah Native Plant Society - \$1,000.
 - California Native Plant Society (CNPS) Shasta chapter Oak Tree grant - \$500.
 - Arizona Native Plant Society (AZNPS) 2019 Doug Green Research grant - \$750.
 - Idaho Native Plant Society 2019 Education, Research, and Inventory Grant Program - \$500.
- 2018
 - California Native Plant Society (CNPS) student travel funding - \$395.
 - Northern California Botanists (NCB) 2018 Botany research scholarship program - \$1,000.
 - A community on ecosystem services (ACES 2018) student fellow
 - California Native Plant Society (CNPS) San Diego chapter mini grant - \$500.
 - California Native Plant Society (CNPS) education grant – Stebbins fund - \$600.

- 2017 • SCB Graduate Student Research fellowship - \$1,000.
- 2016 • Nevada Native Plant Society (NNPS) Margaret Williams research grant - \$1,000.
- SCB North America 2016 Student travel award - \$895.
- Diana Hadley-Lynch scholarship, Department of Biology, University of Nevada, Reno, 2016 – 2017 - \$1,200
- Northern California Botanists (NCB) 2016 Botany Research Scholarship program - \$1,000.
- 2015 • Brussard scholarship, Department of Biology, University of Nevada, Reno, 2015 – 2016 (\$600)
- California Native Plant Society (CNPS) Doc Burr grant (\$300)
- U.S. Fish and Wildlife Service and University of Nevada, Reno cooperative agreement award number F15AC00XXX for genetic diversity, distribution modeling and soil seed bank density on *Ivesia webberi* (\$15,000.00)
- 2011 • Albert Ludwigs University of Freiburg International conference travel grant (€1000 = \$720)
- 2010 • International Tropical Timber Organization (ITTO) Fellowship award, Japan (\$4,450)
- Best young conservation scientist paper presentation award (NTBA 2nd annual seminar)

AWARDS

- 2023 • Society for Conservation Biology Africa Region Presidential Service Award
- 2010 • Best young conservation scientist paper presentation award (NTBA 2nd annual seminar)

UNFUNDED GRANTS PROPOSED SINCE AUGUST 2023

- 2025 • Jensen J.L., Piccolo S., Brown E., Meyers M., Bybee S., **Borokini I.T.**, et al., “Collaborative Proposal: Using S.M.A.R.T. Communication to Create Inclusive Classrooms”, U.S. National Science Foundation.
- Atwater D., Skorupa D., Church S., Schweiger A.K., Tuholske C., **Borokini I.T.**, Debinski D., Ewing S., Shaw J., and Goff E., “applying big data to address complex challenges facing communities and ecosystems in the 21st century”, U.S. National Science Foundation Research Traineeship (NRT) Program.
- Kollin S., Herman M., Hermon A., **Borokini I.T.**, Intemann K., LeCain T., Minton G., Sheehy B., Stevens M., and Stillwell C., “Our Shared Natures: Environmental Inquiry Across the Disciplines”, MSU College of Letters and Science Interdisciplinary Research Seminar - \$15,000.
- Organ C., Reidy M., LeCain T.J., Linck E., **Borokini I.T.**, Walk S., Boyd E., Thum R., Kinosian S., Chorak G., Scott W., Scannella J., and Li H., “Evolution: The Grand Unified Theory”, MSU College of Letters and Science Interdisciplinary Research Seminar - \$15,000.
- 2024 • Garcia P.M., Miller C., Leon M., Long-Fox B., Li D., Klinges D., Hsieh H-Y., **Borokini I.T.**, Resasco J., Charry O.A., Bonnet P., Guralnick R., Alaasam V., Su Y-J., and Liu Y., “Effects of Global Change on hummingbird-flower visitation networks”, ESIL, Colorado University, Boulder CO - \$62,551.
- 2023 • **Borokini I.T.**, “Identifying eco-evolutionary drivers of floristic diversity and community structure in an African tropical refugial forest ecosystem”, Explorers Club - \$20,000.

TEACHING EXPERIENCE

- 2023 – present • **Department of Ecology, Montana State University, Bozeman, Montana, United States**
 - Instructor of record (100%), Conservation Biology (BIOE 440R), 3.0 credit hours, ~30 students, every spring semester – spring 2025

- Instructor of record (100%), Plant Ecology (BIOE 455), 3.0 credit hours, ~40 students, every fall semester – fall 2024, fall 2025
 - Co-instructor of record (50%), Faculty-led student abroad program – Tanzania (BIOE 491), 3.0 credits, ~18 students, every other summer semester – summer 2023
 - Instructor of record (100%), Analysis of Ecological Communities (BIOE 540), 3.0 credit hours, ~16 students, every other spring semester – spring 2024
 - Co-instructor of record (30%), Principles of Biological Diversity (BIOL 170), 3.0 credit hours, ~300 students, every semester – fall 2023
 - Instructor of record (100%), Undergraduate Research Experience (BIOE/WILD 492), 1-6 credit hours, every semester – fall 2023, fall 2024, spring 2025, and summer 2025
- August – **Department of Biology, Diablo Valley College, Pleasant Hill, California, United States**
December 2022
- Instructor of record (100%), Fundamentals of Biological Science (BIOSC 101), 3.0 credit hours, ~40 students, every semester – fall 2022
- August – **Department of Biology, Los Medanos College, Pittsburg Campus, Pittsburg, California, United States**
December 2022
- Instructor of record (100%), Non-Majors General Biology (BIOSC 010), 4.0 credit hours, ~40 students, every semester – spring 2022 and fall 2022
- August 2014 – **Department of Biology, University of Nevada, Reno, Nevada, United States**
May 2021
- Graduate Teaching Assistant, Principles of Biological Investigation (BIOL 192), 1.0 credit hour, ~24 students, every semester – 8 lab sections total across fall 2014, spring 2015, fall 2015, and spring 2016
 - Graduate Teaching Assistant, Principles of Genetics (BIOL 301), 3.0 credit hours, ~180 students, every semester – fall 2016
- June – **Department of Natural Resources and Environmental Science, University of Nevada, Reno, Nevada, United States**
August 2020
- Instructor of record (100%), Environmental Science (BIOSC 010), 3.0 credit hours, ~40 students, every semester – two summer sessions 2020
- August 2017 – **University Writing and Speaking Center, University of Nevada, Reno, Nevada, United States**
May 2018
- Student Writing Consultant – fall 2017 and spring 2018
- August 2018 – **Department of Biology, Truckee Meadows Community College, Reno, Nevada, United States**
July 2021
- Instructor of record (100%), General Biology (BIOL 100), 3.0 credit hours, ~30 students, every semester – spring 2019, summer 2021, winter 2021
 - Instructor of record (100%), Cell and Molecular Biology lab (BIOL 190), 1.0 credit hours, ~24 students, every semester – 14 lab sections across fall 2018, spring 2019, summer 2020, fall 2020, spring 2021, and summer 2021.
- November 2006 – **George and Duke International College, Challenge, Ibadan, Nigeria**
April 2008
- High School classes 1-3 Biology Instructor and preparing High school students for West African Senior Secondary Certificate Examination
- August 2006 – **Advanced Level Biology Lecturer, Ascending College, Ibadan, Nigeria**
June 2007
- Advanced level and AP Biology Instructor and preparing students for the Cambridge A' level Biology Examination
- April 2005 – **Biology Tutor, ECWA Model College, Challenge, Ibadan, Nigeria**
- High School classes 1-3 Biology Instructor and preparing High school students for West African Senior Secondary Certificate Examination

October
2006

STUDENT ADVISING AND MENTORING

GRADUATE STUDENTS ADVISED

Carlisle Segal, PhD student, degree started fall 2024

- Latitudinal and longitudinal patterns of phylogenetic, taxonomic, and functional diversity along the Continental Divide – Idaho to New Mexico
- Funded via Graduate Teaching Assistantship, Department of Ecology, MSU Bozeman; Earth Fund.

Omotayo Ajao, MS student, degree started spring 2025

- Ecological modeling and niche evolution of invasive species
- Funded via Graduate Teaching Assistantship, Department of Ecology, MSU Bozeman; Crawford Habitat Scholarship.

Henry Hardin, MS student, degree started fall 2025

- Modeling the current and future geographical distributions of *Gentianopsis thermalis* using mechanistic and correlative distribution models
- Funded via Graduate Teaching Assistantship, Department of Ecology, MSU Bozeman and NASA EPSCoR research grant.

GRADUATE STUDENTS COMMITTEES

<u>Period</u>	<u>Student name</u>	<u>Degree</u>	<u>Department</u>	<u>Advisor</u>
2024 – present	Anna Freundlich	PhD, Ecology and Env. Sciences	Ecology	Dr. Laura Burkle
2024 – 2025	Calla Sopko	MS, Biological Sciences	Ecology	Dr. Laura Burkle
2024 – present	Christian Larson	PhD, Ecology and Env. Sciences	LRES	Dr. Lisa Rew
2025 – present	Rachael Dines	PhD, Ecology and Env. Sciences	Animal & Range	Dr. Dan Atwater

STUDENTS RESEARCH SUPERVISION, MENTORING, AND ACADEMIC ADVISING

<u>Period</u>	<u>Student name</u>	<u>Research type</u>	<u>Institution</u>	<u>Project</u>
Fall 2025	Ansel Fiddelman	Undergraduate research credits	Montana State University, Bozeman	Ecology and evolution of the southeastern Nigeria flora
	Sophie Kusek			Ecological resilience of plant communities across the United States
	Makayla Gilbert	Paid research assistant		Spatial phylogenetics of the African flora
February-June 2025	Michael D. France	Paid research assistants	Montana State University, Bozeman	Ecological resilience of plant communities across the United States
June-July 2025	Alyssa Walters			
Spring 2025	Monica Lohr Aidan Peers	Undergraduate research credit, internship, symposium presentation, co-authorship of a paper	Montana State University, Bozeman	Ecological resilience of plant communities across the United States
Spring 2025	Karl Raban Aliyah Poxleitner Aislinn Kisner	Undergraduate research credit, symposium presentation	Montana State University, Bozeman	Ecological significance of floral polymorphism: An ecological assessment of sister taxa
Fall 2024	Alyssa Walters	Undergraduate research credit, symposium presentation, co-authorship of a paper	Montana State University, Bozeman	Ecological resilience of plant communities across the United States

Summer 2024	Meagan Ramirez Kiley Smith	Paid research assistantship, co-authorship of a paper	Truckee Meadows Community College, Reno	Diversity of alpine meadows along hydrological gradient in the Sierra Nevada
Spring 2024 – present	Delphine Mpayimana	Voluntary co-advising of MS thesis	University of Rwanda	Modeling the current and future distributions of medicinal and bioculturally significant plants in Rwanda
Fall 2023	Michael D. France	Undergraduate research credit, co-authorship of a paper	Montana State University, Bozeman	Seed germination of <i>Ivesia webberi</i> and its significance on species regeneration and persistence in the Great Basin Desert, Western United States
2023 – present	Academic advising for ~22 undergraduate students each semester		Montana State University, Bozeman	
Spring 2023	Khushi Shrivastava Miranda Zhu Ysabelle Valdez Ria Tao	Undergraduate research credit	University of California, Berkeley	An assessment of ecological niche dynamics between the native and introduced ranges of invasive plants
Spring 2022	Jessica Chan Karen Chang Hope Cummings Can Karakoc Will Potratz	Undergraduate research credit	University of California, Berkeley	Taxonomic and biogeographic patterns of plant introductions and invasion in Nigeria, West Africa
2022 – 2025	Prudence Tegueu	Voluntary co-advising of MS thesis	Higher Institute of Environmental Sciences, Cameroon/ Society for Conservation Biology	Integrating Traditional Ecological Knowledge in Environmental Assessment of socio-economic infrastructure projects in Southeastern Cameroon
Summer 2018	Nicholas Kimutis Ashlyn Tanghal Christoph Bordigioni Ritika Marsani	Undergraduate research credit	Truckee Meadows Community College, Reno	Abundance estimation of a U.S. federally threatened species in the Great Basin Desert
2008 – 2013	Research mentorship of over 30 undergraduate students across Nigerian universities		National Center for Genetic Resources and Biotechnology, Nigeria	

CAPACITY BUILDING

TRAINING COURSES ORGANIZED

1. Spatial phylogenetics workshop. Pre-congress workshop during the 20th International Botanical Congress, Madrid, Spain; July 21, 2024. Co-organized with Dr. Joel Nitta.
2. Your Research Journey: From Research Design to Paper Publication. Pre-congress workshop during the 31st International Congress for Conservation Biology, Kigali, Rwanda; July 22, 2023. Co-organized with Prof. Rosie Trevelyan, Tropical Biology Association and SCB Africa Region Education Program.

3. Spatial phylogenetics. A Research School in Biosystematics – ForBio course co-organized with Prof. Brent Mishler and Dr. Joel Nitta, June 5–7, 2023. Accessed at <https://www.forbio.uio.no/events/courses/2023/Workshop%20in%20Spatial%20Phylogenetics>
4. Spatial phylogenetics. A University of California Berkeley Jepson Herbarium virtual mini-workshop co-organized with Prof. Brent Mishler; March 11, 2023. Accessed at <https://www.youtube.com/playlist?list=PLULUH7ENikDqoszomYPJV6-MqG9xLf7ME>
5. Spatial Phylogenetics. Training course co-organized with Kyle Rosenblad and Dr. Matthew Kling for International Biogeography Society. October 12–13, 2022. Accessed at <https://github.com/matthewkling/ibs-spatial-phylogenetics-2022>.
6. Science communication. Conference workshop organized for Young Women Conservation Biology (YWCB), Society for Conservation Biology Africa Section during the 3rd African congress for Conservation Biology, El Jadida, Morocco; September 6, 2016
7. Developing scientific writing skills. Training workshop organized by the Nigerian Tropical Biology Association (NTBA) during the NTBA conference at University of Ibadan; September 26, 2012.

PROFESSIONAL CERTIFICATIONS

- Certificate in Effective College Instruction. *The Association of College and University Educators (ACUE) and the American Council on Education (ACE)*; 28th March 2020.

UNIVERSITY SERVICE

1. **Montana State University, Bozeman**
 - a) Faculty advisor, Ecology Graduate Student Association (EGSA), Department of Ecology (October 2023–present)
 - b) Faculty advisor, African Students Association (January 2024–present)
 - c) Member, University Scholars Program (USP) Review Panel (October 2024–present)
2. **University of California, Berkeley**
 - a) Vice President, Berkeley Postdoctoral Association (August 2022 – July 2023)
 - b) Curator of African flora, University and Jepson Herbaria (September 2021 – present)
 - c) Public training workshop co-facilitator, Spatial Phylogenetics (March 2023)
3. **University of Nevada, Reno (UNR)**
 - a) Student volunteer, UNR Museum of Natural History public outreach events (2015 – 2019)
 - b) Member, EECB Student Association Colloquium Nomination Committee (2018)
 - c) Member, Ecology, Evolution and Conservation Biology (EECB) Student Association Colloquium Logistics Committee (2015-2017)

PROFESSIONAL AND COMMUNITY SERVICE

1. **Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES)**
[<https://www.ipbes.net/>]
 - Fellow and author, Sustainable Use of Wild Species assessment – Nigeria national representative (2018 – 2022)
2. **Secretariat of the Convention on Biological Diversity (SCBD) of the United Nations**
[<https://www.cbd.int/secretariat>]
 - Member and Nigeria national representative, Ad Hoc Technical Expert Group (AHTEG) on invasive alien species (IAS) management tools and guidance (May – October 2019)
3. ***PlantingScience* (NSF-funded botany mentoring program)**
[<https://plantingscience.org/>]

- Mentor and/or Mentor-Teacher liaison for the following schools:
 - Live Oak School, San Francisco, CA (Grades 6–8) (September–November 2020)
 - Van-Far Junior and Senior High School, Vandalia, MO (Grades 9–12) (April 2021)
 - Sierra Vista High School, Las Vegas, NV (Grades 9–12) (September–November 2021)
 - DeWitt Middle School, DeWitt, MI (Grades 6–8) (January–May 2022)
 - Girls Preparatory School, Chattanooga, TN (Grades 9–12) (October 2022–March 2023)
 - NSF-funded Digging Deeper F2 education research program (June–December 2023)
4. **Society for Conservation Biology (SCB)**
[\[http://conbio.org/\]](http://conbio.org/)
- President of the Board of Directors, SCB Africa Section (2019–2022)
 - Member, SCB Board of Governors (2019–2022)
 - Co-chair, Organizing Committee for the 6th North American Congress for Conservation Biology (NACCB), Reno, Nevada, July 2022 (June 2021 – July 2022)
 - Member, Steering Committee for the 31st International Congress for Conservation Biology (ICCB), Kigali, Rwanda, December 2021 (August 2022 – July 2023)
 - Member, Student Awards Committee, ICCB 2023 (May – July 2023)
 - Member, Scientific Committee and Scholarship Committee for 6th NACCB, Reno, Nevada, July 2022 (June 2021 – July 2022)
 - Member, SCB Transition Implementation Group (2020–2021)
 - Member, SCB Africa Section Board of Directors & President-Elect (2018–2019)
 - Member, SCB Africa Section Board of Directors & Information Officer (2015–2017)
 - Member, Steering Committee for the 30th International Congress for Conservation Biology, Kigali, Rwanda, December 2021 (March 2020 – December 2021)
 - Member, SCB Global Awards Committee (2017–2019)
 - Secretary, SCB Chapters Committee (2016–2019)
 - Member, Planning Committee and Scientific Committee for the 3rd African Congress for Conservation Biology in El Jadida, Morocco in September 2016 (May – September 2016)
 - Mentor, SCB Africa Mentoring program – Anderson Showell, Liberia (mentee; 2015–2016)
5. **Botanic Gardens Conservation International, Kew, UK**
[\[https://www.bgci.org/\]](https://www.bgci.org/)
- BGCI Liaison Officer – Nigeria (September 2012 – December 2013)
6. **My Environment Wellbeing Initiative (MEWIN), Nigeria**
[\[https://www.mewin.com.ng/\]](https://www.mewin.com.ng/)
- Board member (January 2024 – present)
7. **Nigeria Tropical Biology Association (NTBA)**
[\[http://www.tropical-biology.org/\]](http://www.tropical-biology.org/)
- Secretary, Nigeria Tropical Biology Association alumni group (2012–2016)
 - Chair, Scientific Committee, NTBA and Nigeria Chapter of Society for Conservation Biology joint conference, University of Ilorin, Ilorin, Nigeria, June 20–24, 2016 (February – June 2016)
8. **The Great Basin Institute**
[\[https://www.thegreatbasininstitute.org/\]](https://www.thegreatbasininstitute.org/)
- International Conservation Volunteer Exchange (ICVE) Internship (April – October 2013)
 - Galena Creek Visitor Center naturalist intern (February – August 2014)
9. **Academic Staff Union of Research Institutions (ASURI)**
[\[http://www.asuri.org/\]](http://www.asuri.org/)
- Pioneer ASURI Branch Chairman, National Centre for Genetic Resources and Biotechnology (NACGRAB) branch (2009–2014)
 - Member, ASURI National Executive Council (2009–2014)

10. Editing of peer-reviewed journals

- Associate Editor, *Conservation Science and Practice* [2019 – 2024]
- Associate Editor, *Economic Botany* [2021 – 2024]
- Special issue Guest co-editor – Spatial Phylogenetics, *Systematic Botany* [May 2024 – present]
- Peer-reviewed over 200 manuscript submissions for over 35 international journals, including *Biodiversity Data journal*, *Frontiers in Environmental Science*, *African Journal of Ecology*, *International Journal of Biodiversity and Conservation*, *European Journal of Medicinal Plants*, *Ethnobotany Research & Applications*, *Bothalia African Biodiversity and Conservation*, *Heredity*, *Tropical Conservation Science*, *California Fish and Wildlife Journal*, *Applications in Plant Sciences*, *Biological Invasions*, *Ecology and Evolution*, *Scientific Reports*, *Endangered Species Research*, *Environmental Management and Assessment*, *Conservation Science and Practice*, and *Economic Botany*, among others.

11. Conference sessions moderated:

- 31st International Congress for Conservation Biology (ICCB), Society for Conservation Biology (SCB), Kigali, Rwanda, July 23–27, 2023 [2 sessions]
- California Native Plant Society (CNPS) 2022 conference, San Jose CA, United States, October 20–22, 2022 [3 Rare Plant sessions]
- Botanical Society of America (BSA) annual conference, Anchorage, Alaska, United States, July 24–27, 2022 [1 session]
- 6th North American Congress for Conservation Biology (NACCB), Reno, Nevada, United States, July 18–21, 2022 [2 sessions]
- 11th Northern California Botanists (NCB) virtual symposium, January 11–12, 2022 [1 session]
- 30th ICCB, SCB, Kigali, Rwanda, December 6–17, 2021 [2 sessions]
- 4th NACCB, Toronto, Canada, July 21–26, 2018 [1 session]

12. Peer-review of conference abstracts

- SCB International Congress for Conservation Biology (2017, 2019, 2021, and 2023)
- SCB North American Congress for Conservation Biology (2016, 2018, and 2022)
- International Biogeography Society (IBS) Early Career Biogeographers Conference (2020)
- SCB African Congress for Conservation Biology (2016)

13. Northern California Botanists

- [<http://www.norcalbotanists.org/>]
- Director-at-Large (May 2021 – June 2023)

14. International Association for Plant Taxonomists

- [<https://www.iaptglobal.org/>]
- Member, Grants Committee (April 2025 – present)

15. International Biogeography Society

- [<https://www.biogeography.org/>]
- Student-at-Large (November 2021 – January 2024)

16. Public Library of Science (PLOS)

- [<https://plos.org/>]
- Board member (September 2022 – present)

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

- ◆ Society for Conservation Biology – Lifetime Member
- ◆ The Linnean Society of London – Fellow
- ◆ Sigma XI Scientific Research Society – Full member

- ◆ International Biogeography Society – member
- ◆ IUCN-SSC Medicinal Plant Specialist Group – Member
- ◆ American Association for the Advancement of Science – member
- ◆ Ecological Society of America – Member
- ◆ Society for the Preservation of Natural History Collections – member
- ◆ Society for Ethnobotany – Member
- ◆ IUCN-SSC West Africa Plant Red List Authority – Member
- ◆ International Association for Plant Taxonomists – Member

ADDITIONAL SKILLS

- ◆ Statistical analysis software: R, Google Earth Engine, PAST, Unix and Perl, Python, GENSTAT, QGIS, Circuitscape, ArcGIS, Gene Mapper, Geneious, Biodiverse, and FigTree.

CONTACT INFORMATION OF REFEREES

1. **Prof. Brent D. Mishler**

Professor of Systematics and Phylogenetics,
 Director, University and Jepson Herbaria,
 Department of Integrative Biology,
 University of California Berkeley
 Berkeley CA 94720-2465
 E-mail: bmishler@berkeley.edu
 Phone: +1 (510) 642-6810

2. **Prof. Mary M. Peacock**

Professor of Conservation Genetics,
 Department of Biology,
 Program in Ecology, Evolution and Conservation Biology [EECB]
 University of Nevada, Reno
 Reno, NV 89775-0314
 E-mail: mpeacock@unr.edu
 Phone: +1 (775) 784-1958

3. **Prof. Peter J. Weisberg**

Professor of Landscape Ecology,
 Department of Natural Resources and Environmental Science,
 Program in Ecology, Evolution and Conservation Biology [EECB],
 University of Nevada, Reno
 Reno, NV 89775-0186
 E-mail: pweisberg@unr.edu
 Phone: +1 (775) 784-7573

4. **Prof. Robert Guralnick**

Professor of Biodiversity Science,
 Curator of Biodiversity Informatics,
 Department of Natural History,
 Florida Museum of Natural History,
 University of Florida
 Gainesville, FL 32611
 E-mail: robgur@gmail.com
 Phone: +1 (352) 273-1980