

# Israel T Borokini, Ph.D.

Assistant Professor, Department of Ecology, Montana State University, Bozeman  
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## RESEARCH INTERESTS

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

## ACADEMIC QUALIFICATIONS

### 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

## WORK EXPERIENCE: RESEARCH, TEACHING & POLICY

### CURRENT POSITION

August 2023 –  
present

**Assistant Professor**, Department of Ecology, Montana State University, Bozeman

- *Research on community ecology, invasion biology, biogeography (species distribution modeling and spatial phylogenetics), conservation biology, and traditional ecology knowledge systems.*

- **Teaching assignments:**

- *Conservation Biology (BIOE 440R/BIOE 521; 3 credits) – spring 2025*
- *Undergraduate Research Experience (BIOE/WILD 490R; 1 credit) – spring 2025 (five students)*
- *Plant Ecology (BIOE 455; 3 credits) – fall 2024*
- *Undergraduate Research Experience (BIOE 490R; 1 credit) – fall 2024*
- *Analysis of Ecological Communities (BIOE 540; 3 credits) – spring 2024*
- *Principles of Biological Diversity (BIOL 170; 3 credits) – fall 2023*
- *Undergraduate Research Experience (WILD 492; 1 credit) – fall 2023*
- *Mentor for several Ecology major undergraduates (August 2023–present)*

- Faculty-led student abroad program – Tanzania (BIOE 491; 3 credits) – summer 2024
- **Graduate student mentoring:**
- Advisor, Carlisle Segal PhD program (fall 2024–present)
- Advisor, Omotayo Ajao master’s program (spring 2025–present)
- Academic committee member, Anna Freundlich PhD program (February 2024–present)
- Academic committee member, Calla Sopko master’s program (March 2024–present)
- Academic committee member, Christian Larson PhD program (November 2024–present)
- **University service:**
- Faculty advisor, Ecology Graduate Student Association (EGSA), Department of Ecology (October 2023–present)
- Faculty advisor, African Students Association (January 2024–present)
- Member, University Scholars Program (USP) Review Panel (October 2024–present)

### **PREVIOUS RESEARCH EXPERIENCE**

March – April 2023	<p><b>Junior Visiting Research Fellow</b>, School of Biological, Earth and Environmental Sciences, University of New South Wales, Sydney, Australia</p> <p><i>Roles: learning and applying spatial phylogenetic methods in Biodiverse software for North American seed plants and trait diversity metric.</i></p>
August 2021 – July 2023	<p><b>Postdoctoral scholar</b>, Prof. Brent Mishler’s lab, University and Jepson Herbaria, Department of Integrative Biology, University of California, Berkeley</p> <p><i>Roles: Mapping the spatial phylogenetics of North American seed plants using important facets and with modeled distributions of native plant taxa; development of a new method for trait-based assessment of community-level phylogenetic diversity and drivers of community assembly; and writing a review paper on spatial phylogenetics.</i></p>
June – July 2021	<p><b>Postdoctoral research associate</b>, Dr. Julie Allen’s lab, Department of Biology, University of Nevada, Reno</p> <p><i>Roles: Training on Biodiverse software, macroevolution and phylogenetics, contribution to the project on spatial phylogenetics of the vascular flora of Southeastern United States</i></p>
August 2014 – May 2021	<p><b>Doctoral Dissertation research</b>, Ecology, Evolution and Conservation Biology (EECB) Graduate Program, Department of Biology, University of Nevada, Reno</p> <p><i>Roles: Completion of my PhD program with five dissertation chapters focusing on interdisciplinary ecological and genetics studies for the management of Ivesia webberi, a federally threatened plant</i></p>
May 2008 – April 2021	<p><b>Principal Scientific Officer</b>, National Centre for Genetic Resources and Biotechnology (NACGRAB), Moor Plantation, Ibadan, Nigeria.</p> <p><i>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.</i></p>
March 2004 – February 2005	<p><b>Nigeria’s National Youth Service Corps (NYSC) placement</b>, National Centre for Genetic Resources and Biotechnology (NACGRAB), Moor Plantation, Ibadan, Nigeria</p> <p><i>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.</i></p>
September 2003 – February 2004	<p><b>Research Assistantship</b>, International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria.</p> <p><i>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.</i></p>

### **PREVIOUS TEACHING EXPERIENCE**

August – December 2022	<b>Adjunct faculty (instructor of record)</b> , Department of Biology, Diablo Valley College, Pleasant Hill CA <i>Classes taught: Fundamentals of Biological Science (3 credit, one semester) lecture virtual synchronous instruction delivery</i>
January – December 2022	<b>Adjunct faculty (instructor of record)</b> , Department of Biology, Los Medanos College, Pittsburg Campus, Pittsburg CA <i>Classes taught: General Biology (4 credit, two semesters) lecture and lab hybrid instruction delivery</i>
August 2014 – May 2021	<b>Graduate Teaching Assistant</b> , Department of Biology, University of Nevada, Reno <i>Classes taught: Principles of Biological Investigation (1 credit, four semesters, eight lab sections), and Principles of Genetics (3 credits, one semester), as well as coordinator for Biology help center (one semester).</i>
August 2018 – July 2021	<b>Adjunct faculty (instructor of record)</b> , Department of Biology, Truckee Meadows Community College, Reno <i>Classes taught: Cell and Molecular Biology lab (1 credit, seven semesters, 14 lab sections), and General Biology for non-majors (3 credits, three lecture and lab sections, three semesters).</i>
June – August 2020	<b>Instructor of record</b> , Department of Natural Resources and Environmental Science (NRES), University of Nevada, Reno <i>Classes taught: Environmental Science (3 credits, two summer sessions) online asynchronous instruction delivery</i>
November 2006 – April 2008	<b>Biology Tutor</b> , George and Duke International College, Challenge, Ibadan, Nigeria <i>Classes taught: High school Biology, preparing High school students for West African Senior Secondary Certificate Examination</i>
August 2006 – June 2007	<b>Advanced Level Biology Lecturer</b> , Ascending College, Ibadan, Nigeria <i>Classes taught: Advanced Level Biology, preparing students for the Cambridge A' level Biology Examination</i>
April 2005 – October 2006	<b>Biology Tutor</b> , ECWA Model College, Challenge, Ibadan, Nigeria <i>Classes taught: High school Biology, preparing High school students for West African Senior Secondary Certificate Examination</i>

### **PREVIOUS POLICY AND CONSULTANCY**

November 2018 – July 2022	<b>Fellow &amp; author, Sustainable Use of Wild Species assessment</b> , Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES)
May – October 2019	<b>Member and Nigeria national representative</b> , Ad Hoc Technical Expert Group (AHTEG) on invasive alien species (IAS) management tools and guidance; Secretariat of the Convention on Biological Diversity (SCBD) of the United Nations
July – September 2016	<b>Project consultant</b> , geosUAS Inc., Reno NV
August 2017 – May 2018	<b>University student writing consultant</b> , University Writing and Speaking Centre, University of Nevada, Reno

## SCIENTIFIC PUBLICATIONS

### BOOKS AND EDITED PROCEEDINGS

- 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.
- 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.
- 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.
- 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.

### MANUSCRIPT IN PREP OR REVIEW (as of March 2025)

- Borokini I.T.**, Kisner A., Poxleitner A., Raban K., Abuksis N., and Sapir Y. (2025). Distribution and ecological niches of flower color polymorphic species and their monomorphic sister taxa. *Manuscript in prep.*
- 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-Gradow L., Chacón-Madrigal 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., Gudžinskas 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., Pelter 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., Yazlik A., Zykova E., and Pyšek P. (2025). A global synthesis of naturalized and invasive plants in aquatic habitats. *In review.*
- 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.*
- Kling M.M., González-Ramírez I.S., Carter B., **Borokini I.**, and Mishler B.D. (2024). Spatial phylogenetics and conservation prioritization of Californian bryophytes. *In review.* <https://doi.org/10.1101/2024.12.16.628580>
- Tegueu Kemeni A.P., Tsabang N., Kuate J., Ba'ane M., Nana E.D., **Borokini I.T.** (2024). Integrating traditional ecological knowledge in environmental assessment process and biomonitoring of wildlife in south and east regions of Cameroon. *In review.*
- 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. *In review.* <https://doi.org/10.32942/X24S7F>
- 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. *In review.* <https://doi.org/10.32942/X27049>
- Amano T., Ramírez-Castañeda V., Berdejo-Espinola V., **Borokini I.**, Chowdhury S., Golivets M., González-Trujillo J.D., Montaña-Centellas F., Paudel K., Louise White R., and Veríssimo D. (2024). Language and gender barriers in scientific writing. *In review.* <https://doi.org/10.32942/X2F914>
- Castillo M.L., **Borokini I.T.**, Pyšek P., Novoa A. (2024). Global niche change analyses in invasive *Carpobrotus* hybrid complex. *Manuscript in prep.*

- Mpayimana D., **Borokini I.**, and Kaplin B. (2024). Species distribution modeling of medicinal and bioculturally significant plants in Rwanda. *Manuscript in prep.*
- 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.**, Brůna 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., Yazlık A., Zykova E.), and Kortz A. (2024). Invasive species in grasslands. Chapter 16. In: Routledge Handbook of Grasslands. *In review.*

### **PUBLISHED JOURNAL ARTICLES** [67; $\Sigma(\text{citations})=1647$ ]

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 (<https://jcr.clarivate.com/JCRLandingPageAction.action>).

- 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> [journal impact factor (JIF) = 2.3]
- 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., Wadgyamar 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]
- 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.**, Selmann K., Montanaro G., and Mabee P. (2024) Meeting report for the Phenoscape 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]
- 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]
- 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]
- Amano T., Ramírez-Castañeda V., Berdejo-Espinola V., **Borokini I.**, Chowdhury S., Golivets M., González-Trujillo J.D., Montaña-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]
- Borokini I.T.**, Nussenaar 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]
- 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]
- 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]
- 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]

**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]

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]

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]

Grimaldi IM, Leke WN, **Borokini TI**, 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]

**Borokini TI** (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

Mwampamba TH, Abrams RW, Awoyemi S, Babalola FD, **Borokini TI**, Egoh B, Idrissi HR, 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 = 0.71]

Akinloye AJ, **Borokini TI**, Adeniji KA and Akinnubi FM (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

**Borokini TI** (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>

Afolayan AO, **Borokini TI** and Afolayan GO (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>

**Borokini TI** (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>

**Borokini TI**, Osewa SO, Babalola FD, Alamu O and Olubiyi MR (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

**Borokini TI**, and Lawal IO (2014). Traditional medicine practices among the Yoruba people of Nigeria: A historical perspective. *Journal of Medicinal Plants Studies* 2 (6): 20-33

**Borokini TI**, Ayodele AE and Akinloye AJ (2014). Morphological and anatomical studies on *Tacca leontopetaloides* (L.) Kuntze (Taccaceae) in Nigeria. *Research in Plant Biology* 4 (5): 28-44

Uyi OO, Ekhaton F, Ikuenobe CE, **Borokini TI**, Aigbokhan EI, Egbon IN, Adebayo AR, Igbinosa IB, Okeke CO, Igbinosa EO and Omokhua GA (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]

**Borokini TI** (2014). A systematic compilation of IUCN Red-Listed Threatened Plant Species in Nigeria. *International Journal of Environmental Sciences* 3 (3): 104 – 133

Awosan EA, Lawal IO, Ajekigbe JM and **Borokini TI** (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]

- Lawyer FE, Jamaledine ZO, Lyam PT, **Borokini TI**, Adedeji AA and Okere AU (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
- Borokini TI**, Ighere DA, Clement M, Ajiboye TO and Alowonle AA (2013). Ethnobiological survey of traditional medicine practices in Oyo State. *Journal of Medicinal Plants Studies* 1 (5): 1 – 16
- Borokini TI**, Ighere DA, Clement M, Ajiboye TO and Alowonle AA (2013). Ethnobiological survey of traditional medicine practice for women's health in Oyo State. *Journal of Medicinal Plants Studies* 1 (5): 17 – 29
- Borokini TI**, Ighere DA, Clement M, Ajiboye TO and Alowonle AA (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
- Borokini TI** (2013). Overcoming financial challenges in the management of botanic gardens in Nigeria: A review. *International Journal of Environmental Sciences* 2 (2): 87 – 94
- Borokini TI** (2013). The State of ex-situ conservation in Nigeria. *International Journal of Conservation Science* 4 (2): 197 – 212
- Borokini TI**, Clement M, Dickson NJ and Edagbo DE (2013). Ethnobiological survey of traditional medicine practice for skin related infections in Oyo State, Nigeria. *Topclass Journal of Herbal Medicine* 2 (6): 103 – 110
- Borokini TI**, Clement M, Dickson NJ and Edagbo DE (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
- Borokini TI**, Clement M, Dickson NJ and Edagbo DE (2013). Ethnobiological survey of traditional medicine practice for fevers and headaches in Oyo State, Nigeria. *Topclass Journal of Herbal Medicine* 2 (6): 121 – 130
- Borokini TI**, Clement M, Dickson NJ and Edagbo DE (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
- Borokini TI**, Clement M, Dickson NJ and Edagbo DE (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
- Babalola FD, **Borokini TI**, Onefeli AO 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>
- Borokini TI**, Onefeli AO and Babalola FD (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>
- Lawal IO, Ige PO, Awosan EA, **Borokini TI** and Amao OA (2013). Growth assessment of endangered *Aframomum sceptrum* (Braun) under different planting regime for sustainable utilization. *African Journal of Agricultural Research* 8 (31): 4184 – 4188; 10.5897/AJAR10.125 [JIF = 0.26]
- Borokini TI** and Ayodele AE (2012). The pollen morphology of *Tacca leontopetaloides* (L.) Kuntze in Nigeria. *African Journal of Plant Science* 6 (1): 43 – 47; 10.5897/AJPS11.171
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- Borokini TI**, Babalola FD, Amusa TO, Ivande ST, Wala ZJ, Jegede OO, Tanko D and Ihuma JO (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
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- Babalola FD, Amusa TO, Wala ZJ, Ivande ST, Ihuma JO, **Borokini TI**, Jegede OO 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>
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- Borokini TI**, Lawyer FE and Ayodele AE (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](http://doi.org/10.4314/ejb.v13i1.8)
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#### **IUCN RED LIST OF THREATENED SPECIES ASSESSMENTS**

**Borokini TI**, Rivers MC 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>

**Borokini TI**, Rivers MC 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**

**Borokini IT**, Wong LJ, 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**

Gasalla MA, Tittensor DP, Kok K, Archer E, **Borokini I**, Halouani G, Matias DM, Mbiba M, Milner-Gulland EJ, Pacheco P, Fabricius C, & 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 JM, Emery M, Donaldson J, Danner MC, Hallosserie A, & Kieling D (eds.). IPBES secretariat, Bonn, Germany. <https://doi.org/10.5281/zenodo.6451922>

#### **OTHER CONTRIBUTIONS**

**Borokini TI** (2013). Lake Chad: The disappearing inland Lake. In: RW Howarth (ed.), *Biomes and Ecosystems encyclopaedia* (4 volumes). Salem Press, New Jersey, 1440 pp. ISBN: 978-1-4298-3813-9

**Borokini TI** (2013). Niger Delta swamp forests: A biodiverse forest ecosystem threatened by oil exploration and deforestation. In: RW Howarth (ed.), *Biomes and Ecosystems encyclopaedia* (4 volumes). Salem Press, New Jersey, 1440 pp. ISBN: 978-1-4298-3813-9

**Borokini TI** (2013). River Niger: A river of rivers in the desert. In: RW Howarth (ed.), *Biomes and Ecosystems encyclopaedia* (4 volumes). Salem Press, New Jersey, 1440 pp. ISBN: 978-1-4298-3813-9

**Borokini TI** (2013). Sahara Desert: Snowfall in the hottest desert of the world In: RW Howarth (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**

Barberá P, Asase A, **Borokini IT**, Colwell A, Davis CC, Franz NM, 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.

Mishler BD, 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.

**Borokini IT**, Mishler BD, and Laffan S (2024). Revisiting the patterns of African flora biodiversity using spatial phylogenetics. 20th International Botanical Congress, Madrid, Spain; July 21–28, 2024.

**Borokini IT**, Mishler BD, 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.

Mpayimana D, **Borokini IT**, and Kaplin BA (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.

- Mpayimana D, **Borokini IT**, and Kaplin BA (2024). Species distribution modeling of medicinal and culturally significant plants in Rwanda. International Association of Landscape Ecology (IALE) North America Annual Meeting, Oklahoma City, OK, United States; April 1–5, 2024.
- Borokini IT**, Laffan S, Knapp W, and Mishler BD (2024). Revisiting the spatial phylogenetics of North American seed plants. 11th International Biogeography Society biennial conference, Prague, Czech Republic, January 7–11, 2024.
- Borokini IT**, 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.
- Borokini IT** and Eniang EA (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.
- Borokini IT** and Peacock MM (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.
- Borokini IT**, Nussear K., Petitpierre B., Dilts TE, and Weisberg PJ (2023). Integration of iterative species distribution modeling and field surveys of a federally threatened desert perennial. Species on the Move 2023 conference, Bonita Springs FL, United States; May 14–19, 2023.
- Borokini IT** and Mishler BD (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.
- Mishler BD, **Borokini IT**, and Carter BE (2022). Conservation assessment of California mosses using spatial phylogenetic methods. CNPS 2022 conference, San Jose CA, United States; October 20–22, 2022.
- Borokini IT** (2022). Developing networks for biodiversity conservation in Africa. INTECOL2022: International Association for Ecology annual meeting, Geneva, Switzerland; August 28–September 2, 2022.
- Borokini IT**, Allen JM, Smith SA, Guralnick R, Soltis PS, Soltis DE, Laffan SW, and Mishler BD (2022). Trait diversity – a novel phylodiversity measure to investigate eco-evolutionary mechanisms of community assembly. Botanical Society of America (BSA) annual conference, Anchorage, Alaska, United States; July 24–27, 2022.
- Borokini IT**, Chan J, Chang K, Cummings H, Karakoç C, & 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.
- Borokini IT**, Nussear K, Petitpierre B, Dilts TE, and Weisberg PJ (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.
- Borokini IT**, Nussear K, Dilts TE, and Weisberg PJ (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.
- Borokini TI**, Klingler KB, and Peacock MM (2021). Spatial genetic structure and functional connection in *Ivesia webberi*. 30th ICCB, SCB, virtual; December 6–17, 2021.
- Borokini TI** (2021). Ethnobotanical knowledge of the traditional medicinal practices in southwestern Nigeria. 15th International Herb Symposium (HIS) virtual conference, virtual; June 10–13, 2021.
- Borokini TI** (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.
- Borokini TI**, Broderick SR, Peacock MM and Birchler JA (2020). Variations in the nuclear genomic size in *Ivesia* from western North America and its taxonomic implications. 10th NCB symposium, California State University, Chico CA, United States; January 13–14, 2020.
- Borokini TI**, Witt A and Aigbokhan EA (2019). Taxonomic structure and biogeographic patterns of introduced plant species in Nigeria. 29th ICCB, SCB, Kuala Lumpur, Malaysia; July 21–25, 2019.

- Borokini TI** and Peacock MM (2019). Seed germination and viability studies in *Ivesia webberi* A. Gray. 9th NCB symposium, California State University, Chico CA, United States; January 14–16, 2019.
- Borokini TI** (2018). Conservation and ecosystem services of sacred natural sites in Nigeria. A community of ecosystem services (ACES) 2018 conference, Washington DC, United States; December 3–6, 2018.
- Borokini TI** (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 CA, United States; November 7–10, 2018.
- Borokini TI** and Peacock MM (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.
- Borokini TI** and Peacock MM (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, NV, United States; April 5–6, 2018.
- Borokini TI**, Weisberg PJ and Dilts TE (2018). Ecological niche modelling of *Ivesia webberi* A. Gray in Nevada and California. CNPS 2018 conservation conference, Los Angeles, CA, United States; February 1–3, 2018.
- Babalola FD, **Borokini TI** and Onefeli AO (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.
- Borokini TI**, Weisberg PJ, and Dilts TE (2017). Species distribution modelling of *Ivesia webberi* A. Gray in Nevada and California. 28th ICCB, SCB, Cartagena, Colombia; July 23–27, 2017.
- Borokini TI** (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.
- Borokini TI**, Lebbie A, and Akotto FA (2017). Review of endemic vascular flora in the Guinean forests of West Africa. 8th IBS biennial conference, Tucson, AZ, United States; January 9–13, 2017.
- Borokini TI**, Lebbie A, and Akotto FA (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.
- Borokini TI**, Weisberg PJ and Peacock MM (2016). Ecological niche modelling of *Ivesia webberi* Gray in Nevada and California. NACCB, Society for Conservation Biology North America Section, Madison, WI, United States; July 17–20, 2016.
- Borokini TI** (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.
- 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, UT, United States; October 5–11, 2014.
- Borokini TI** and Babalola FD (2013). A systematic compilation of endemic plants in Nigeria for conservation management. 4th NTBA conference, University of Lagos, Lagos, Nigeria; July 2–4, 2013.
- Borokini TI** and Ayodele AE (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.
- Borokini TI** (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.
- Borokini TI** (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.
- Borokini TI** and Ojo AV (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.

- Borokini TI** 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.
- Borokini TI**, Babalola, FD and Oneferi AO (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.
- Borokini TI** (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.
- Borokini TI** 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.
- Babalola FD, Osho AO and **Borokini TI** (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.
- Babalola FD, Amusa TO, Wala ZJ, Ivande ST, Ihuma JO, **Borokini TI**, Jegede OO 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.
- Borokini TI** and Babalola FD (2012). Issues on threatened taxa of Nigeria: A call for conservation action. 3rd NTBA annual seminar, University of Ibadan, Ibadan, Nigeria; September 25, 2012.
- Borokini TI** (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.
- Borokini TI** and Lawyer FE (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.
- Borokini TI** (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.
- Borokini TI** (2010). Application of bioresources for poverty alleviation in Nigeria. 2nd NTBA annual seminar, University of Ibadan, Ibadan, Nigeria; September 24, 2010.
- Borokini TI** (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.
- Borokini TI** (2010). The current trends of deforestation in Nigeria. 19th BOSON annual conference, Umaru Musa Yar'Adua University, Katsina, Nigeria; July 26–29, 2010.
- Lawal IO, Uzokwe NE, Adio AF, **Borokini TI**, Faloye B, Awosan EA and Adesoga AA (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.
- Lawal IO, Olatunji BP, **Borokini TI**, Awosan EA, Olayemi JO and Fadare DA (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**

- February 13, 2025: Challenges towards building a globally equitable BIOFAIR network. Invited 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.
- December 3, 2024: Integration of phylogenetic, geospatial, and ecological data to investigate drivers of plant diversity and distributions. Invited seminar presentation for the Institute of Ecology and Evolution, University of Bern Switzerland.

September 28, 2024: What drives plant diversity and distributions across spatial and temporal scales? Freshman Research Symposium, Montana State University, Bozeman MT, United States.

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 MT, United States.

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 MT, United States.

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 FL., United States.

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, United States.

September 15, 2023: Legacy of exotic plant introduction in Nigeria. Invited quarterly presentation for the Coalition for Biodiversity Conservationists of Nigeria.

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 CA, United States.

August 10, 2023: Applying models of geographical distributions for hypothesis testing and species conservation. Invited monthly seminar presentation of the California Botanical Society.

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 CA, United States.

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 AZ, United States.

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 CA, United States.

March 6, 2023: Modeling of species ecological niche. Invited lecture for BIOL 2403 (Principles of Ecology), Department of Life Sciences, University of the West Indies, Kingston, Jamaica.

January 25, 2023: The role of functional trait diversity on plant community assembly across scales. Invited seminar presentation for the Department of Botany and Plant Sciences, University of California Riverside, Riverside CA, United States.

November 30, 2022: Combining niche models with genetic markers to understand barriers to gene flow among populations of a desert plant species. Invited seminar presentation for the Department of Ecology and Evolution, University of Bern, Switzerland.

November 8, 2022: 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 CA, United States.

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 CA, United States.

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 CA, United States.

March 21, 2022: Ecological niche modelling and the Wallacean shortfall. Nigeria Tropical Biology Association bi-monthly seminar.

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.

- 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 CA, United States.
- July 30, 2021: Do newly discovered locations alter the ecological niche dynamics of the threatened *Ivesia webberi*? Presented at the monthly meeting of the University of Nevada, Reno Postdoctoral Association.
- September 11, 2020: Taxonomic implications of variations in nuclear genomic size in *Ivesia* from western North America, presented at the University of California, Berkeley University and Jepson Herbaria Botany Lunch.
- November 19, 2020: Iterative ecological niche modeling and adaptive sampling resulted in the discovery of novel locations of the threatened *Ivesia webberi*, presented at the Conservation Lecture series of the California Department of Fish and Wildlife, United States.
- December 17, 2020: Biogeographical inferences from genome size and ecological niche of *Ivesia* Torrey and A. Gray, presented at the Leipzig University, Leipzig, Germany research seminar for the Molecular Evolution and Plant Systematics research group.
- February 1, 2020: Seed regeneration and behavior of wire mousetail in the Great Basin Desert. An invited talk presented at Galena Creek Visitor Center, Reno, NV, United States.
- July 18, 2019: Native plants of the Great Basin Desert and their historical uses. A lecture presented at the 2019 summer school camp program for K-12 students, Galena Creek Visitor Center, Reno NV, United States.
- September 6, 2018: *Ivesia webberi* A. Gray is tougher than you think: a field journal presentation. Public lecture presented at the Nevada Native Plant Society (NNPS) monthly meeting.
- 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 NV United States.
- March 5, 2015: The African “Death tree” is dying: African medicinal plants, uses and threats. Public lecture presented at the NNPS monthly meeting, Reno NV, 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: Mukhlis 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 Kansky (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. Eriogonum Society annual meeting, Zion National Park, UT, United States; September 12–15, 2024.
2. 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.
3. 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.
4. 12th Montana Plant Conservation Conference, titled “Restoration of Native Plant Communities”, Montana State University, Bozeman MT, United States; April 11–12, 2024.
5. 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.
6. 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.
7. Ecological Society of America 2021 virtual conference, titled, “Vital connections in Ecology”, August 2–6, 2021.
8. 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.
9. Northern California Writing Centers Association (NCWCA) Conference, titled “Curiosity, collaboration connections: The NCWCA (un)conference,” Santa Clara University, Santa Clara, CA, April 7, 2018.
10. 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.
11. 3rd Annual Conference of the Institute of Ecology and Environmental Studies, Obafemi Awolowo University, Ile-Ife, June 15–17, 2010.

### **WORKING GROUPS**

1. Biosphere2 Biogeography Working Group workshop, organized at Biosphere2, Oracle, Arizona, April 13–16, 2023.
2. Phenoscape TraitFest Working Group workshop, organized by Renaissance Computing Institute, Chapel Hill and Duke University, Durham North Carolina, January 22–26, 2023.
3. Data analysis subcommittee, Africa BioGenome Project, November 2022–present
4. *Evolution and Long-term Ecology Working Group*, organized by John Hopkins University at Sevilleta National Wildlife Refuge LTER, La Joya, New Mexico, May 9–13, 2022.
5. *Using the Rules of Life to Address Societal Challenges and Postdoctoral writing incubator*, organized by the National Science Foundation (NSF), April 12–May 17, 2022.
6. *Broadening the use of NASA datasets by the Species Distribution Modelling community*, organized by the University of Montana Spatial Analysis Lab and National Aeronautics and Space Administration (NASA), January 6–February 4, 2022.

### **FUNDING & AWARDS**

#### **RESEARCH GRANTS**

- 2023
- NSF Division of Biological Infrastructure: Collaborative Research: BoCP-Implementation: Integrating Traits, Phylogenies and Distributional Data to Forecast Risks and Resilience of North American Plants (\$458,000.00). Role: Senior Personnel – trait diversity metric development

- 2022
  - NSF Division of Biological Infrastructure: Digitization and enrichment of U.S. herbarium data from Tropical Africa to enable urgent quantitative conservation assessments (\$73,280.00). Role: Senior Personnel – spatial phylogenetics data analysis
  - Berkeley Postdoctoral Association Professional Development Award (\$1,250)
- 2021
  - David H Smith Conservation Research Fellowship at the University of California, Berkeley (\$187,085.00)
  - United States National Science Foundation (NSF) Postdoctoral Research Fellowship in Biology (2021) - *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)

## **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.

## **MENTORING**

1. Montana State University Bozeman, Bozeman MT
  - a. Michael France (undergrad intern: August–December 2023; research assistant: February 2024–present)
  - b. Alyssa Walters (undergrad intern: April 2024–present)
  - c. Meagan Ramirez and Kiley Smith, summer research assistants (June–July 2024)
  - d. Aislinn Kisner, Aliyah Poxleitner, Karl Raban, Shannon Derby, Monica Lohr, and Aidan Peers (undergrad intern: November 2024–present)
2. University of Rwanda, Kigali, Rwanda
  - a. Co-advising Delphine Mpayimana, an MS student (January 2024–present)
3. Undergraduate Research Apprentice Program, University of California, Berkeley, CA
  - a. Jessica Chan, Karen Chang, Hope Cummings, Can Karakoc, and Will Potratz (January–May 2022)
  - b. Khushi Shrivastava, Miranda Zhu, Ysabelle Valdez, and Ria Tao (January–May 2023)
4. Mentor and liaison, Botanical Society of America’s NSF-funded *PlantingScience*
  - a. Live Oak School, San Francisco, CA (Grades 6–8) (September–November 2020)
  - b. Van-Far Junior and Senior High School, Vandalia, MO (Grades 9–12) (April 2021)
  - c. Sierra Vista High School, Las Vegas, NV (Grades 9–12) (September–November 2021)
  - d. DeWitt Middle School, DeWitt, MI (Grades 6–8) (January–May 2022)
  - e. Girls Preparatory School, Chattanooga, TN (Grades 9–12) (October 2022–March 2023)
  - f. NSF-funded Digging Deeper F2 education research program (June–December 2023)
5. Freelance mentoring
  - a. Mr. Quadri Anibaba, data review assistant (March–December 2020)
6. Mentor, Society for Conservation Biology (SCB) Africa Section Mentoring Program
  - a. Anderson Showell, Liberia (2015–2016)
  - b. Prudence Tegueue, Cameroon (2022–2023, informally continuing till present)
7. Truckee Meadows Community College, Reno, Nevada
  - a. Ms. Ritika Marsani, lab/data analysis research assistant (2018–2019)
  - b. Nicholas Kimutis, Ashlyn Tanghal, and Christoph Bordigioni, summer field research assistants (May–July 2018)
8. National Center for Genetic Resources and Biotechnology, Ibadan, Nigeria
  - a. Mentored over 30 students on research experience for undergraduate programs.

## **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.

## **SELECTED PROFESSIONAL DEVELOPMENT COURSES ATTENDED**

### Biodiversity conservation

- **Introduction to Biodiversity Specimen Digitization course.** iDigBio Digitization Academy, Online, August 9–12, 2021.
- **Using the IUCN Red List Categories and Criteria to assess extinction risk of species for the global and national Red Lists.** IUCN and SCB, Montpellier, France; August 7–8, 2015
- **Monitoring and communicating biodiversity.** Darwin scholarship program, Field Studies Council, Shrewsbury, United Kingdom; August 19–29, 2015
- **Effective conservation leadership.** Smithsonian Conservation Biology Institute (SCBI) and George Mason University, Front Royal, VA, United States of America. May 3–13, 2011.

### Research designs, data analysis, and ecological modeling

- **Critical Skills to Scale Up Ecology Workshop for Graduate Students.** Ecological Society of America (ESA) Strategies for Ecology Education, Diversity and Sustainability program (SEEDS), September 2 –October 26, 2021.
- **Google mapping and earth engine.** Geo for Good summit 2019, Google headquarters, Sunnyvale CA, September 16–19, 2019.
- **Designing research projects in the field.** Developing research capacity among African environmental scientists (DRECA), jointly funded, and organized by European Union, Tropical Biology Association (TBA), United Kingdom, EU's ACP Group of States and Nigerian Conservation Foundation (NCF), in Ibadan, Nigeria; June 26–29, 2012.

### Scientific communication

- **ComSciCon-SciWri2021 Communicating science workshop.** Council for the Advancement of Science Writers (CASW), and National Association of Science Writers (NASW), October 2–11, 2021.

### Science Teaching

- **Teaching evolution through a culturally competent lens.** Brigham Young University, Provo, Utah, October 27–30, 2021.
- **Pathways to Scientific Teaching course.** Visiting Scholar and Postdoc Affairs (VSPA), University of California, Berkeley, October 4–8, 2021.
- **Getting results: an online professional development certificate program,** Truckee Meadows Community College, Reno, fall 2018 semester.
- **Teaching with Technology.** University of Nevada, Reno, fall 2018 semester.
- **Effective teaching strategies for biological and environmental scientists.** Developing research capacity among African environmental scientists (DRECA), jointly funded, and organized by European Union, Tropical Biology Association (TBA), United Kingdom, EU's ACP Group of States and Nigerian Conservation Foundation (NCF) and University of Ghana, in Aburi, Ghana; October 29–30, 2012.

## **PROFESSIONAL SERVICE**

### **1. Society for Conservation Biology (SCB)**

[<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)
2. **Botanic Gardens Conservation International, Kew, UK**  
[<https://www.bgci.org/>]
    - BGCI Liaison Officer – Nigeria (September 2012 – December 2013)
  3. **Nigeria Tropical Biology Association (NTBA)**  
[<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)
  4. **The Great Basin Institute**  
[<https://www.thegreatbasininstitute.org/>]
    - International Conservation Volunteer Exchange (ICVE) Internship (April – October 2013)
    - Galena Creek Visitor Center naturalist intern (February – August 2014)
  5. **Academic Staff Union of Research Institutions (ASURI)**  
[<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)
  6. **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*, *Scientific Reports*, *Endangered Species Research*, *Conservation Science and Practice*, and *Economic Botany*, among others.
  7. **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]
8. **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)
  9. **Northern California Botanists**  
[<http://www.norcalbotanists.org/>]
    - Director-at-Large (May 2021 – June 2023)
  10. **International Biogeography Society**  
[<https://www.biogeography.org/>]
    - Student-at-Large (November 2021 – January 2024)
  11. **Public Library of Science (PLOS)**  
[<https://plos.org/>]
    - Board member (September 2022 – present)

## PREVIOUS UNIVERSITY SERVICE

1. **University of California, Berkeley**
  - a) Vice President, Berkeley Postdoctoral Association (August 2022 – July 2023)
2. **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)

## MEMBERSHIPS IN PROFESSIONAL SOCIETIES

- ◆ Society for Conservation Biology – Lifetime Member [since 2009]
- ◆ The Linnean Society of London – Fellow [since 2015]
- ◆ Sigma XI Scientific Research Society – Full member [since 2014]
- ◆ International Biogeography Society – member [since 2015]
- ◆ IUCN Commission on Ecosystem Management – Member [since 2015]
- ◆ IUCN-SSC Medicinal Plant Specialist Group – Member [since 2017]
- ◆ American Association for the Advancement of Science – member [since 2019]
- ◆ Ecological Society of America – Member [since 2021]
- ◆ National Association of Science Writers – Member [since 2021]
- ◆ Society for Ethnobotany – Member [since 2021]
- ◆ West Africa Plant Red List Authority, IUCN Species Survival Commission - Member [since 2020]

## 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 THREE REFEREES

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

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