

Morgan R. Gostel

Curriculum Vitae

Research Botanist, Botanical Research Institute of Texas
1700 University Dr., Fort Worth, TX 76107 USA
Email: mgostel@brit.org ◆ <http://brit.org/user/642> ◆ Phone: 817-463-4199

EDUCATION

- 2015 **Ph.D.** (Environmental Science & Policy), George Mason University
Advisor: Andrea Weeks
- 2010 **M.S.** (Biology), Virginia Commonwealth University
Advisor: Gregory M. Plunkett
- 2008 **B.S.** (Major: Biology, Minor: Chemistry, Spanish), Virginia Commonwealth University

PROFESSIONAL EXPERIENCE

- 2018–Present **Research Botanist**, Botanical Research Institute of Texas
- 2015–2018 **GGI Buck Postdoctoral Fellow**, Smithsonian Institution
Supervisor: Vicki Funk, Senior Research Botanist and Curator
- 2014–2015 **Graduate Research Assistant**, George Mason University
Supervisor: Cody Edwards, Associate Provost for Graduate Education
- 2011–2014 **Graduate Teaching Assistant**, George Mason University
Supervisor: Andrea Weeks, Associate Professor
- 2010–2012 **Graduate Research Assistant**, George Mason University
Supervisor: Andrea Weeks, Associate Professor
- 2008–2010 **Graduate Teaching Assistant**, Virginia Commonwealth University
Supervisor: Gregory M. Plunkett, Director and Curator, Cullman Program for Molecular Systematics, New York Botanical Garden

PROFESSIONAL AFFILIATIONS

- 2019–Present **Associate Graduate Faculty**, Department of Biology, Texas Christian University
- 2019–Present **Scientific adviser**, Jardin Ethnobotanique Kivu (JEBK), Democratic Republic of the Congo
- 2018–Present **Research Collaborator**, Department of Botany, National Museum of Natural History, Smithsonian Institution
- 2018–Present **Adjoint Professor**, Department of Biology, University of Texas Arlington
- 2015–Present **Affiliate Faculty**, Department of Biology, George Mason University

RESEARCH GRANTS AND AWARDS

- 2019 PI, 2019 Global Genome Initiative Rolling Award
\$7,125, **Smithsonian Institution**
- 2017 PI, 2016 Global Genome Initiative Peer Review Award
\$2,335, **Smithsonian Institution**
- 2016 Co-PI, SIBG/GGI Grant Program
\$20,969, **Smithsonian Institution**
- 2016 Co-PI, Global Genome Initiative, 2016 Exploratory Science Award
\$31,098, **Smithsonian Institution**
- 2015 PI, Departmental Research Fellowship Award
\$9,500, **George Mason University**
- 2015 PI, International Student Travel Fund
\$1,951, **George Mason University**
- 2014 PI, Graduate Student Travel Fund Award
\$400, **George Mason University**
- 2014 PI, Elaine Joyce Outstanding Graduate Student Teaching Award
\$100, **George Mason University, Department of Biology**
- 2014 Student scholar, Widening Implementation and Demonstration of Evidence-based Reforms (WIDER)
\$500, **National Science Foundation (NSF)**
- 2014 Co-PI, Doctoral Dissertation Improvement Grant
\$12,994, **National Science Foundation (NSF)**
- 2012 PI, Graduate Student Travel Fund Award
\$450, **George Mason University**
- 2012 PI, Research Grant for Graduate Students
\$850, **American Society of Plant Taxonomists**
- 2011 PI, Graduate Student Research Fellowship
\$2,400, **George Mason University**
- 2011 PI, Graduate Student Travel Fund Award
\$400, **George Mason University**

PUBLICATIONS IN REFEREED JOURNALS, **indicates student co-author*

- 14) **Gostel, M. R.**, J. D. Zúñiga, W. J. Kress, V. A. Funk, and M. R. Gostel. *In press*. Microfluidic enrichment barcoding (MEBarcoding): a new method for high throughput plant DNA barcoding. *Scientific Reports*.

- 13) Zúñiga, J.D., **M. R. Gostel**, D. G. Mulcahy, K. Barker, A. Hill*, M. Sedaghatpour*, S. Q. Vo*, V. A. Funk, and J. A. Coddington. 2017. Data Release: DNA barcodes of plant species collected for the Global Genome Initiative for Gardens Program, National Museum of Natural History, Smithsonian Institution. *Phytokeys* 88: 119–122, doi: 10.3897/phytokeys.88.14607.
- 12) Lowry, P. P. II, G. M. Plunkett, and **M. R. Gostel**. 2017. A synopsis of the Afro-Malagasy species previously included in *Schefflera* J.R. Forst. & G. Forst. (Araliaceae): resurrection of the genera *Astropanax* Seem. and *Neocussonia* (Harms) Hutch. *Candollea* 72: 265–282, doi: 10.15553/c2017v722a4.
- 11) **Gostel, M. R.**, G. M. Plunkett, and P. P. Lowry II. 2017. Straddling the Mozambique Channel: molecular evidence for two major clades of Afro-Malagasy *Schefflera* (Araliaceae) co-occurring in Africa and Madagascar. *Plant Ecology and Evolution* 150: 87–108, doi: 10.5091/plecevo.2017.1193.
- 10) Funk, V. A., **M. R. Gostel**, A. Devine, C. L. Kelloff, K. J. Wurdack, C. Tuccinardi, A. Radosavljevic, M. Peters, and J. Coddington. 2017. Guidelines for collecting vouchers and tissues intended for genomic work (Smithsonian Institution): Botany Best Practices. *Biodiversity Data Journal* 5: e11625, doi: 10.3897/BDJ.5.e11625.
- 9) **Gostel, M. R.**, A. Weeks, J. Raharimampionona, and P. B. Phillipson. 2016. A partial taxonomic revision of the Rhynchocharpa clade of *Commiphora* (Burseraceae) endemic to Madagascar. *Systematic Botany* 41: 1004–1019. doi: 10.1600/036364416X694134.
- 8) Collins, E. S., **M. R. Gostel**, and A. Weeks. 2016. An expanded nuclear phylogenomic PCR toolkit for Sapindales. *Applications in Plant Sciences* 4: e1600078. doi: 10.3732/apps.1600078
- 7) **Gostel, M. R.**, C. Kelloff, K. Wallick, and V. A. Funk. 2016. A workflow to preserve genome quality tissue samples from plants in botanical gardens and arboreta. *Applications in Plant Sciences* 4: e1600039. doi: 10.3732/apps.1600039
- 6) **Gostel, M. R.**, P. B. Phillipson, and A. Weeks. 2016. Phylogenetic reconstruction of the myrrh genus, *Commiphora* (Burseraceae), reveals multiple radiations in Madagascar and clarifies infrageneric relationships. *Systematic Botany* 41: 67–81. doi: 10.1600/036364416X690598.
- 5) Seberg, O., G. Droege, K. Barker, J. A. Coddington, V. Funk, **M. R. Gostel**, G. Petersen, and P. P. Smith. 2016. Global Genome Biodiversity Network: saving a blueprint of the Tree of Life – a botanical perspective. *Annals of Botany* 118: 393–399. doi: 10.1093/aob/mcw121.
- 4) **Gostel, M.R.**, K.A. Coy*, and A. Weeks. 2015. Microfluidic PCR-based target enrichment: A case study in two rapid radiations of *Commiphora* (Burseraceae) from Madagascar. *Journal of Systematics and Evolution* 53(5): 411–431. doi: 10.1111/jse.12173.
- 3) Schwebach, J. R., D. Gerasimova, D. A. Luther, A. B. Verhoeven, C. P. Davis, **M. R. Gostel**, C. Romulo, L. Schreffler, P. Seshaiyer, and J. K. Nelson. 2015. Advancing graduate education and faculty development with discipline based education research and the SIMPLE framework: design memos in biology for active teaching. *Athens: ATINER'S Conference Paper Series*, No: BIO2015-1599.
- 2) **Gostel, M.R.** and A. Weeks. 2014. Development of novel, exon-primed intron-crossing (EPIC) markers from EST databases and evaluation of their phylogenetic utility in *Commiphora* (Burseraceae). *Applications in Plant Sciences* 2(4):1300098. doi: 10.3732/apps.1300098.
- 1) **Gostel, M.R.**, M. Dal-Forno, and A. Weeks. 2013. A navigation guide to cyberinfrastructure tools for botanical and lichenological systematics research. *Plant Science Bulletin* 59(3):111–130. doi: 10.3732/psb.1300001.

PUBLICATIONS, IN PREPARATION

- Gostel, M. R.**, N. Roque, G. Sancho, and V. A. Funk. Generation gaps: Improving resolution at the tribal scale in the Gochnatieae (Compositae) with low-cost phylogenomic tools. To be submitted to *Taxon*.
- Gostel, M. R.**, G. M. Plunkett, and P. P. Lowry II. *Astropanax comorensis* (Araliaceae), a new cryptic species from the Comoro Islands. To be submitted to *Adansonia*.
- M. R. Gostel** and V. A. Funk. The placement of *Gladiopappus* (Compositae), a monotypic genus in Madagascar. To be submitted to *PhytoKeys*.
- Kimball, R. T., **M. R. Gostel**, V. A. Funk, and D. J. Crawford. Molecular Phylogenetics and Biogeography of Tarchonantheae (Asteraceae: Carduoideae): Out of Africa to Madagascar and Back. To be submitted to *Molecular Phylogenetics and Evolution*.

BOOKS AND BOOK CHAPTERS

- 1) Raharimampionona, J., M. R. Gostel, and D. C. Daly. *In Press*. Family Burseraceae: the Malagasy genera. In S. M. Goodman (Ed.) *The Natural History of Madagascar* (2nd ed.).

INVITED SEMINARS AND PRESENTATIONS

- 11) 10 July 2019. *The Global Genome Initiative for Gardens: unlocking the potential of living collections for genomics in the 21st Century*. Invited speaker at Mercer Botanic Gardens. Humble, TX USA.
- 10) 12 June 2019. *The Global Genome Initiative for Gardens: unlocking the potential of living collections for genomics in the 21st Century*. Brown Bag Seminar at Lady Bird Johnson Wildflower Center. Austin, TX USA.
- 9) 5 March 2019. *What makes a biodiversity hotspot so hot? Exploring plant species diversity in Madagascar*. Research Lecture Series at the Botanical Research Institute of Texas (BRIT). Fort Worth, TX USA.
- 8) 26 October 2018. *Leveraging Phylogenomics to Improve Resolution of the evolutionary history of Moquiniatum and the tribe to which it belongs, Gochnatieae (Compositae)*. Invited presenter, Evolución de las Compositae en un Contexto Global. XII Congreso Latinoamericano de Botánica. Quito, Ecuador.
- 7) 10 October 2018. *The Global Genome Initiative for Gardens: unlocking the potential of living collections for genomics in the 21st Century*. Invited panelist, BionorthTX iC3 Life Science Summit. Arlington, Texas.
- 6) 11 January 2018. *Navigating the phylogenomic landscape for angiosperm systematics: two case studies in Burseraceae and Compositae*. Invited Brown Bag Seminar. Botanical Research Institute of Texas, Fort Worth, Texas USA.
- 5) 7 November 2017. *The Global Genome Initiative for Gardens: unlocking the potential of living collections for genomics in the 21st Century*. Invited seminar for the monthly meeting of the Botanical Society of Washington. Washington, DC USA.
- 4) 25 October 2017. *Building botanical literacy through outreach with gardens and public schools*. Core Facility Botanical Garden, University of Vienna, Austria.

- 3) 19 October 2017. *The Global Genome Initiative for Gardens: unlocking the potential of living collections for genomics in the 21st Century*. Departmental Seminar, Institut für Pflanzenwissenschaften, Bereich Systematische Botanik, und Geobotanik. Karl-Franzens-Universität Graz, Austria.
- 2) 7 September 2017. *Navigating the phylogenomic landscape for angiosperm systematics: Two case studies in Asteraceae and Burseraceae*. Departmental Seminar, Plant Biology, Ecology, and Evolution. Oklahoma State University, Stillwater, OK USA.
- 1) 18 January 2017. *Harnessing phylogenomics and biological collection networks to uncover patterns of plant evolution*. Departmental Seminar, Biological Sciences. The University of Alabama, Tuscaloosa, AL USA.

PAPERS/POSTERS AT NATIONAL OR INTERNATIONAL MEETINGS, *indicates student co-author

- 24) **Gostel, M. R.** Bridging gardens and *ex situ* conservation in Texas: GGI-Gardens. Annual Meeting of the Texas Association of Botanical Gardens and Arboreta. Dallas, TX USA. 12–14 February 2020.
- 23) **Gostel, M. R.** and V. A. Funk. Generation gaps: Improving resolution at the tribal scale in the Gochnatieae (Compositae) with low-cost phylogenomic tools. National Meetings of the Botanical Society of America and the American Society of Plant Taxonomists. Tucson, AZ USA. 27–31 July 2019.
- 22) **Gostel, M. R.** GGI-Gardens from the ground up: building a network of botanical gardens and biorepositories to preserve plant biodiversity from living collections. Texas Plant Conservation Conference. Fort Worth, TX USA. 19–21 September 2018.
- 21) **Gostel, M. R.** and V. A. Funk. Where did you come from? Where did you go? A survey of the diversity of Compositae (Asteraceae) in Madagascar. National Meetings of the Botanical Society of America and the American Society of Plant Taxonomists. Rochester, MN USA. 21–25 July 2018.
- 20) **Gostel, M. R.** The Global Genome Initiative for Gardens: unlocking the potential of living collections for genomics in the 21st Century. American Public Gardens Association 2018 Annual Conference. Anaheim, CA USA. 4–8 June 2018.
- 19) **Gostel, M. R.** and V. A. Funk. Unlocking the hidden biodiversity in Botanical Gardens through the Global Genome Initiative for Gardens. Global Genome Biodiversity Network 2018 Conference. Vienna, Austria. 22–25 May 2018.
- 18) **Gostel, M. R.** and V. A. Funk. An updated phylogeny of *Moquiniastrum* (Gochnatieae, Compositae) revealed by a novel molecular marker set using low cost phylogenomic methods. XIX International Botanical Congress. Shenzhen, Guangdong, China. 23–29 July 2017.
- 17) **Gostel, M. R.** and C. Adams. Online mentoring program opens students' eyes to plants and plant scientists. XIX International Botanical Congress. Shenzhen, Guangdong, China. 23–29 July 2017.
- 16) **Gostel, M. R.**, C. Newlander, A. M. Devine, K. Barker, J. A. Coddington, and V. A. Funk. The Global Genome Initiative for Gardens partnership: Harnessing living collections for a worldwide network of voucher preserved tissues. Annual meetings of the American Public Gardens Association. Hamilton, Ontario, Canada. 19–23 June 2017.
- 15) Lowry II, P. P., **M. R. Gostel**, G. M. Plunkett, and D. G. Frodin. No more *Schefflera* (Araliaceae) in Africa and Madagascar: resurrection of the genera *Astropanax* and *Neocussonia*. XXI AETFAT Congress, Nairobi, Kenya. 15–19 May 2017.
- 14) Gonzalez, V. L., R. B. Dikow, P. B. Frandsen, M. Kweskin, G. Johnson, **M. R. Gostel**, T. Muruvanda, M. Allard, S. Keeley, V. A. Funk, and J. R. Mandel. Building a reference genome for *Centrapalus*

pauciflorus, an African oilseed crop (Compositae). BioGenomics 2017 – Global Biodiversity Genomics Conference. Smithsonian National Museum of Natural History. Washington, D.C. 21–23 February 2017.

- 13) **Gostel, M. R.**, R. Dikow, K. Freitas, G. Sancho, N. Roque, and V. A. Funk. Exploring PCR-based target enrichment applications for a ‘critically placed tribe’ in Compositae: rapid radiations in South American *Moquiniastrum* (Gochnatieae). National Meetings of the Botanical Society of America and the American Society of Plant Taxonomists. Savannah, Georgia. 30 July – 3 August 2016.
- 12) **Gostel, M. R.**, K. A. Coy*, and A. Weeks. Species-level phylogenetic resolution of Madagascan *Commiphora* (Burseraceae) revealed by multilocus target enrichment. National Meetings of the Botanical Society of America and the American Society of Plant Taxonomists. Edmonton, Alberta, Canada. 25–29 July 2015.
- 11) **Gostel, M. R.**, A. Verhoeven, C. W. Edwards, and J. R. Schwebach. A call to train: Graduate teaching assistants, writing, and the STEM curriculum. National Meetings of the Botanical Society of America and the American Society of Plant Taxonomists. Edmonton, Alberta, Canada. 25–29 July 2015.
- 10) Coy, K. A., A. Weeks, and **M. R. Gostel**. Developing and evaluating novel nuclear markers for phylogenetic reconstruction in the myrrh genus, *Commiphora* Jacq. (Burseraceae) using multiplexed target enrichment. National Meetings of the Botanical Society of America and the American Society of Plant Taxonomists. Boise, Idaho. 26–30 July 2014.
- 9) **Gostel, M. R.** and A. Weeks. Reconstructing patterns of microendemism in Madagascan seasonally dry tropical forests: Dating the divergence of four radiations in the myrrh genus, *Commiphora* Jacq. (Burseraceae) using a five-marker phylogeny. National Meetings of the Botanical Society of America and the American Society of Plant Taxonomists. Boise, Idaho. 26–30 July 2014.
- 8) Coy, K. A., A. Weeks, and **M. R. Gostel**. Developing and evaluating novel nuclear markers for phylogenetic reconstruction in the myrrh genus, *Commiphora* Jacq. (Burseraceae) using multiplexed target enrichment. National Meetings of the Society for the Study of Evolution and the Society of Systematic Biologists. Raleigh, North Carolina. 20–24 June 2014.
- 7) **Gostel, M. R.** and A. Weeks. A history of arrivals and subsequent diversification in Madagascar: A case study from the myrrh genus, *Commiphora* Jacq. (Burseraceae). National Meetings of the Society for the Study of Evolution and the Society of Systematic Biologists. Raleigh, North Carolina. 20–24 June 2014.
- 6) **Gostel, M. R.** and A. Weeks. Developing novel EPIC primers for shallow-scale phylogenetic inference and assessing their phylogenetic utility in a recently derived lineage of Madagascan *Commiphora* (Burseraceae). National Meetings of the Botanical Society of America and the American Society of Plant Taxonomists. New Orleans, Louisiana. 27–31 July 2013.
- 5) Weeks, A. and **M. R. Gostel**. Resolving the evolutionary history of copal and myrrh trees (Burserinae; Burseraceae). National Meetings of the Botanical Society of America and the American Society of Plant Taxonomists. New Orleans, Louisiana. 27–31 July 2013.
- 4) **Gostel, M. R.** and A. Weeks. Multiple Island Radiations of Malagasy *Commiphora* (Burseraceae). XVIIIth International Botanical Congress, Melbourne, Victoria, Australia. 24–30 July 2011.
- 3) **Gostel, M. R.**, G. M. Plunkett, and P. P. Lowry II. African-Malagasy *Schefflera* (Araliaceae), revisited: Expanded sampling reveals insights into morphological and biogeographic patterns. National Meetings of the Botanical Society of America & the American Society of Plant Taxonomists, Providence, Rhode Island. 7–11 July 2012.

- 2) **Gostel, M. R.**, G. M. Plunkett, and P. P. Lowry II. Evolutionary relationships in African-Malagasy *Schefflera*: Exploring phylogenetic and biogeographic connections. XIXth AETFAT Congress (Association for the Taxonomic Study of the Flora of Tropical Africa), Antananarivo, Madagascar. *Scripta Bot. Belg.* 46: 195. 25–30 April 2010.
- 1) **Gostel, M. R.**, G. M. Plunkett, and P. P. Lowry II. Evolutionary relationships in African-Malagasy *Schefflera*: Exploring phylogenetic and biogeographic connections. National Meetings of the Botanical Society of America and the American Society of Plant Taxonomists. Snowbird, Utah. 25–29 July 2009.

TEACHING EXPERIENCE

- 2013–2014 **BIOL 310**, Biodiversity (Lab and recitation), Instructor of record
4 semesters. 12–24 students per semester, 2 contact hours.
George Mason University
- 2012 **BIOL 103**, Introductory Biology I (Lecture), Instructor of record
2 semesters. 130–150 students, 3 contact hours.
George Mason University
- 2012 **BIOL 104**, Introductory Biology II (Lab), Instructor of record
2 semesters, 18–22 students, 1 contact hour.
George Mason University
- 2011–2012 **BIOL 103**, Introductory Biology I (Lab), Instructor of record
3 semesters, 16–24 students, 1 contact hour.
George Mason University
- 2011 **BIOL 304**, Plant Biology (Lab), Instructor of record
1 semester, 17 students, 1 contact hour.
George Mason University
- 2008–2010 **BIOZ 151**, Introduction to Biological Sciences I (Lab). Instructor of record
6 semesters, 14–20 students, 1 contact hour.
Virginia Commonwealth University

STUDENT MENTORSHIP

- 2019 (3) Camille Carey (Undergraduate student mentee), Seth Hamby and Farahnoz Khojayori, GGI-Gardens interns.
- 2017 (2) Jacob Suissa, Kадiera Ingram, GGI-Gardens interns, Smithsonian Institution.
- 2016 (5) Kадiera Ingram, Kathryn Faulconer, Maryam Sedaghatpour, Monica Marcelli, Samantha Vo, GGI-Gardens interns, Smithsonian Institution.
- 2013–2014 Kiera Coy, undergraduate researcher. George Mason University. Undergraduate Research Scholars Program

WORKSHOPS AND SYMPOSIA ORGANIZED

- 8) **Gostel, M.R.**, M. S. Islam, C. Newlander, A. Meyer, M. Dosmann, and R. Folgado. Your Garden's Impact for Research: Uses, Tracking, and Getting Credit. Session organized for the American Public Gardens Association 2019 National Conference, Washington, DC USA. 17–21 June 2019.
- 7) **Gostel, M. R.**, V. Handley, J. R. Neale, and K. Wallick. The Global Genome Initiative for Gardens: unlocking the potential of living collections for genomics in the 21st Century. Session organized for the American Public Gardens Association 2018 National Conference. Anaheim, CA USA. 4–8 June 2018.
- 6) **Gostel, M. R.** Garden Genomics Tissue Banking Workshop. XIX International Botanical Congress. Shenzhen, Guangdong, China. 26 July 2017.
- 5) **Gostel, M. R.**, A. Novy, and J. Ramp Neale. Living Collections, biorepositories, and plant genomic preservation: A roundtable discussion with GGI-Gardens. 6th Global Botanic Garden Congress. 27 June 2017.
- 4) **Gostel, M. R.** and V. A. Funk. Stakeholder breakout session for the Global Genome Initiative for Gardens. Global Genome Biodiversity Network North American Workshop. 13 April 2017.
- 3) Dal Forno, M. and **M. R. Gostel**. Utilizing Molecular Resources in Research. Universidade de Santa Cruz do Sul, Santa Cruz do Sul, RS, Brazil. 8 hours, January 9, 2017.
- 2) **Gostel, M. R.**, K. Barker, J. C. Coddington, and V. A. Funk. 2016. Implementing voucher and genome-quality tissue sampling workflows for Global Genome Initiative-Gardens. GGBN 2016: Meeting the Challenge to Preserve a Cross-section of the Tree of Life. Berlin, Germany.
- 1) **Gostel, M. R.** and J. Giddens. 2014. Crafting an effective elevator speech and communicating broader impacts of your work: Networking workshop for students and postdocs. National Meetings of the Botanical Society of America and the American Society of Plant Taxonomists. Boise, Idaho.

PUBLIC OUTREACH & MEDIA

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| 2020 | <i>1,000 Ascensions: Madagascar expedition</i> . Botanical Research Institute of Texas Notes from the Field. http://brit.org/notes-field/1000-ascensions-madagascar-expedition |
| 2019 | <i>Crowdsourcing Conservation</i> . Wildflower Magazine Vol. 36, No. 2. https://issuu.com/wildflowercenter/docs/2019_v36_no2_issuu |
| 2019 | The Plant Press – <i>The Global Genome Initiative for Gardens at 5 years: Intern retrospectives</i> . https://nmnh.typepad.com/the_plant_press/2019/11/the-global-genome-initiative-for-gardens-at-5-years-intern-retrospectives.html |
| 2019 | “Banking Biodiversity” – October Newsletter for the Center for Plant Conservation. https://saveplants.org/2019/10/01/october-2019-news/ |
| 2019 | “Herbology, First Year” – Hogwart’s Summer Camp, S. Dillon Ripley Center, Smithsonian Institution |
| 2019 | CBS DFW – <i>North Texas Researchers Show Off New Lab</i> . https://dfw.cbslocal.com/video/4037408-wx-101-north-texas-researchers-show-off-new-lab/ |
| 2016 | The Plant Press – <i>Trolling for Garden Genomes</i> . https://nmnh.typepad.com/the_plant_press/2016/04/trolling-for-garden-genomes.html |
| 2015 | BBC News Washington, DC – <i>Scientists rush to freeze plant DNA before ‘sixth extinction’</i> . https://www.bbc.com/news/magazine-33450398 |

2015 Smithsonian Magazine – *These scientists hope to have half the world’s plant families on ice by the end of summer.* <https://www.smithsonianmag.com/smithsonian-institution/these-scientists-hope-have-half-worlds-plant-families-on-ice-by-end-summer-180955867/>

PROFESSIONAL SERVICE

- 2020–2022 **Member**, Graduate Student Research Award Committee.
Botanical Society of America
- 2019–Present **Editor**, Dicomeae, Tageteae, & Vernoniaeae. The Global Compositae Database.
The Compositae Working Group. <http://Compositae.org>
- 2018–Present **Director**, The Global Genome Initiative for Gardens.
National Museum of Natural History and the Botanical Research Institute of Texas.
- 2015–2018 **Program Manager**, The Global Genome Initiative for Gardens.
National Museum of Natural History, Smithsonian Institution.
- 2014–2017 **Co-chair**, Public Policy Committee.
Botanical Society of America
- 2010–2018 **Mentor**, Master Plant Science Team.
PlantingScience (<http://www.plantingscience.org>)
- 2012–2016 **Mentor**, Preparing Leaders and Nurturing Tomorrow’s Scientists.
National Meetings of the Botanical Society of America
- 2012–2014 **Student representative**, Board of Directors.
Botanical Society of America
- 2011–2014 **Student representative**, Finance Committee.
Botanical Society of America
- 2011–2012 **Vice-President**, Environmental Science & Policy Graduate
Student Association. George Mason University
- 2009–2010 **President**, Graduate Organization of Biology Students (GOBS).
Virginia Commonwealth University
- 2008 **Secretary**, Promotion and Tenure Committee (Dr. Robert Tombes).
Virginia Commonwealth University

FIELD EXPERIENCE

Africa

Madagascar (All regions except for Analanjirofo and Sava)

North America

U.S.A. (Mid-Atlantic and South East; esp. Maryland, Virginia, North Carolina, Texas, West Virginia)

South America

Brazil (State of Rio Grande do Sul)

PROFESSIONAL MEMBERSHIP

American Public Garden Association (APGA)
American Society of Plant Taxonomists (ASPT), *Lifetime*
Botanic Gardens Conservation International (BGCI)
Botanical Society of America (BSA), *Lifetime*
International Association of Plant Taxonomists (IAPT)
Torrey Botanical Society

MANUSCRIPT REVIEW

American Journal of Botany, Brittonia, Molecular Phylogenetics and Evolution, PhytoKeys, Rodriguésia, Systematic Biology

PROFESSIONAL DEVELOPMENT & TRAINING COURSES TAKEN

2012–2017 **Team leader**, Biological and Ecological Sciences Coalition (BESC). Congressional Visits Day. Washington, D.C.
2011 Workshop on Comparative Genomics: Special Session. Washington, D.C. October 3–7, 2011.

HERBARIA VISITED

Billy L. Turner Plant Resources Center, University of Texas at Austin, USA (TEX); Botanischer Garten und Botanisches Museum Berlin-Dahlem, Germany (B); Botanical Research Institute of Texas (BRIT); Centre National de la Recherche Appliquée au Développement Rural, Madagascar (TEF); Conservatoire et Jardin botaniques de la Ville de Genève, Switzerland (G); George Mason University Herbarium, USA (GMUF); Karl-Franzens-Universität Graz, Austria (GZU); Lundell Herbarium, University of Texas Austin, USA (LL); Missouri Botanical Garden, USA (MO); Muséum National d'Histoire Naturelle, France (P); Parc de Tsimbazaza, Madagascar (TAN); Smithsonian Institution, USA (US); The New York Botanical Garden, USA (NY); Universidade Federal do Rio Grande do Sul, Brazil (ICN); Universität Wien, Austria (WU); Virginia Commonwealth University, USA (VCU)

LANGUAGE PROFICIENCY

English (Native), Portuguese (Fluent), Spanish (Intermediate), French (Basic)