

MANUELA DAL FORNO
CURRICULUM VITAE

Botanical Research Institute of Texas
1700 University Drive
Fort Worth, TX 76107-3400
Phone: +1 (817) 546-1959

Email: mdalforno@brit.org
Website: www.manueladalforno.com
Twitter: @manudalforno #WeAreAllLichens

EDUCATION

- 2015 **Ph.D., Environmental Science and Public Policy**
George Mason University (GMU). Fairfax, VA, USA
- 2009 **M.Sc., Botany**
Universidade Federal do Paraná (UFPR). Curitiba, PR, Brazil
- 2006 **B.Sc., Biology**
Universidade de Santa Cruz do Sul (UNISC). Santa Cruz do Sul, RS, Brazil

PROFESSIONAL APPOINTMENTS

- Current **RESEARCH BOTANIST**
Fort Worth Botanic Garden | Botanical Research Institute of Texas (BRIT)
- Research Associate**
National Museum of Natural History (NMNH), Smithsonian Institution
- Adjoint Faculty, Department of Biology**
University of Texas Arlington (UTA)
- Associate Graduate Faculty, Department of Biology**
Texas Christian University (TCU)
- 2018–2019 **Peter Buck Postdoctoral Research Fellow – Department of Botany**
National Museum of Natural History, Smithsonian Institution
- Research Associate**
Botanical Research Institute of Texas
- 2016–2018 **National Science Foundation Postdoctoral Research Fellow**
NSF PRFB 1609022: Using museum specimens to explore the diversity and
variation of lichen microbiomes in space and time
Smithsonian Institution (NMNH) – University of Graz, Austria
- 2015–2016 **Laboratory Technician**
Center for Conservation Genomics (CCG), Smithsonian Institution
- 2015–2016 **Herbarium Assistant**
Ted R. Bradley Herbarium, George Mason University

PUBLICATIONS

PEER REVIEWED

42. Gerlach A, Clerc P, Lücking R, Moncada B, Nobleza J, Ohmura Y, Dal Forno M. 2023. The genus *Usnea* (Parmeliaceae, Ascomycota) in the southern Philippines: a first phylogenetic approach. *The Lichenologist* 55: 451–480.

41. Lücking R, Moncada B, **Dal Forno M**. 2023. *PhyloKey*: A novel method to rapidly and reliably identify species in complex, species-rich genera, and an opportunity for "non-molecular museomics". *The Lichenologist* 55(5):181–192. doi:10.1017/S0024282923000415
40. Taer EC, **Dal Forno M**, Moncada B, Amoroso VB, Coritico FP. 2023. Lichens across Land Use Types of Mt. Musuan, Bukidnon, Southern Philippines. *Philippine Journal of Science* 152(6A): 2077–86.
39. Coca LF, Gómez SG, Guillermo JG, Trujillo ET, Clavijo L, Zuluaga A, **Dal Forno M**, Lumbsch HT. 2023. *Sulzbacheromyces leucodontium* (Basidiomycota, Lepidostromataceae), a new species of basidiolichen widely distributed in the Neotropics. *Phytotaxa* 597 (2): 153–164. <https://doi.org/10.11646/phytotaxa.597.2.5>
Erratum: Coca, LF, Gómez Gómez, S., Guzmán Guillermo, J., Trujillo Trujillo, E., Clavijo, L., Zuluaga, A., Dal Forno, M. & Lumbsch, HT. 2023. *Sulzbacheromyces leucodontium* (Basidiomycota, Lepidostromataceae), a new species of basidiolichen widely distributed in the Neotropics. *Phytotaxa* 597 (2): 153–164. *Phytotaxa* 612(2): 250–250. <https://doi.org/10.11646/phytotaxa.612.2.10>
38. Pardo-De la Hoz CJ, Magain N, Piatkowski B, Cornet L, **Dal Forno M**, Miadlikowska J, François L. 2023. Ancient Radiation Explains Most Conflicts Among Gene Trees and Well-supported Phylogenomic Trees of Nostocalean Cyanobacteria. *Systematic Biology* 72 (3): 694–712, doi.org/10.1093/sysbio/syad008
37. **Dal Forno M**, Lawrey JD, Moncada B, Bungartz F, Grube M, Schuettpelz E, Lücking R. 2022. DNA barcoding of fresh and historical collections of lichen-forming basidiomycetes in the genera *Cora* and *Corella* (Agaricales: Hygrophoraceae): a success story? *Diversity* 14 (4): 284. <https://doi.org/10.3390/d14040284>
36. Yahr R, Allen J, Lymbery C, Batallas-Molina R, Bungartz F, **Dal Forno M**, Hodges M, Lendemmer J, McMullin T, Mertens A, Paquette H, Petix M, Reese Næsborg R, Roberts, F, Sharrett S & Vilella J. 2021. *Parmotrema hypotropum*. *The IUCN Red List of Threatened Species* 2021: e.T194661553A194678154. <https://www.iucnredlist.org/species/194661553/194678154>
35. Yahr R, Allen J, Lymbery C, Bungartz F, Batallas-Molina R, **Dal Forno M**, Howe, N., Lendemmer J, McMullin T, Mertens A, Paquette H, Petix M, Reese Næsborg R, Roberts, F, Sharrett S, Spielmann A, Vargas, R. & Vilella J. 2021. *Parmotrema crinitum*. *The IUCN Red List of Threatened Species* 2021: e.T194661476A194678149. <https://www.iucnredlist.org/species/194661476/194678149>
34. Yahr R, Allen J, Lymbery C, Batallas-Molina R, Bungartz F, **Dal Forno M**, Howe, N., Lendemmer J, McMullin T, Mertens A, Paquette H, Petix M, Reese Næsborg R, Roberts, F, Sharrett S & Vilella J. 2021. *Parmeliopsis hyperopta*. *The IUCN Red List of Threatened Species* 2021: e.T194660868A194678144. <https://www.iucnredlist.org/species/194660868/194678144>
33. Yahr R, Allen J, Lymbery C, Batallas-Molina R, Bungartz F, **Dal Forno M**, Howe N, Lendemmer J, McMullin T, Mertens A, Paquette H, Petix M, Reese Næsborg R, Roberts, F, Sharrett S & Vilella J. 2021. *Parmeliopsis ambigua*. *The IUCN Red List of Threatened Species* 2021: e.T194660719A194678139. <https://www.iucnredlist.org/species/194660719/194678139>
32. Yahr R, Allen J, Lymbery C, Batallas-Molina R, **Dal Forno M**, Howe N, Lendemmer J, McMullin T, Mertens, A., Petix, M., Reese Næsborg R, Roberts, F, Sharrett S & Vilella J. 2021. *Parmelia squarrosa*. *The IUCN Red List of Threatened Species* 2021: e.T194660642A194678134. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194660642A194678134.en>
31. Yahr R, Allen J, Lymbery C, Batallas-Molina R, Bungartz F, **Dal Forno M**, Howe N, Lendemmer J, McMullin T, Mertens A, Paquette H, Petix M, Reese Næsborg R, Roberts, F,

- Sharrett S & Vilella J. 2021. *Parmelia saxatilis*. *The IUCN Red List of Threatened Species* 2021: e.T194660573A194678129. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194660573A194678129.en>
30. Allen J, Yahr R, Lymbery C, Batallas-Molina R, Bungartz F, **Dal Forno M**, Hodges M, Lendemmer J, McMullin T, Mertens A, Paquette H, Petix M, Reese Næsborg R, Roberts, F, Sharrett S, Spielmann A & Vilella J. 2021. *Parmotrema perforatum*. *The IUCN Red List of Threatened Species* 2021: e.T194661584A194678159. <https://www.iucnredlist.org/species/194661584/194678159>
29. Allen J, Yahr R, Lymbery C, Batallas-Molina R, **Dal Forno M**, Howe, N., Lendemmer J, McMullin T, Mertens A, Paquette H, Petix M, Reese Næsborg R, Roberts, F, Sharrett S & Vilella J. 2021. *Melanohalea halei*. *The IUCN Red List of Threatened Species* 2021: e.T194662493A194678204. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194662493A194678204.en>
28. Allen J, Yahr R, Lymbery C, Batallas-Molina R, Bungartz F, Calabria L, **Dal Forno M**, Howe N, Lendemmer J, McMullin T, Mertens A, Paquette H, Petix M, Reese Næsborg R, Roberts, F, Sharrett S & Vilella J. 2021. *Flavoparmelia baltimorensis*. *The IUCN Red List of Threatened Species* 2021: e.T194662214A194678194. <https://www.iucnredlist.org/species/194662214/194678194>
27. Allen J, Yahr R, Lymbery C, Batallas-Molina R, Bungartz F, **Dal Forno M**, Howe N, Lendemmer J, McMullin T, Mertens, A., Petix, M., Reese Næsborg R, Roberts, F, Sharrett S & Vilella J. 2021. *Canoparmelia caroliniana*. *The IUCN Red List of Threatened Species* 2021: e.T194662208A194678189. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194662208A194678189.en>
26. **Dal Forno M**, Kaminsky L, Lücking R. 2021. *Cora timucua*. *The IUCN Red List of Threatened Species* 2021: e.T175711802A175712343. <https://dx.doi.org/10.2305/IUCN.UK.2021-1.RLTS.T175711802A175712343.en>.
25. Allen J, Beeching S, Bishop G, **Dal Forno M**, Hodges M, Lendemmer J, McMullin T, Paquette H & Yahr R. 2020. *Flavoparmelia caperata*. *The IUCN Red List of Threatened Species* 2020: e.T180096947A180096996. <https://dx.doi.org/10.2305/IUCN.UK.2020-3.RLTS.T180096947A180096996.en>.
24. **Dal Forno M**, Lawrey JD, Sikaroodi M, Gillevet PM, Schuettpelz E, Lücking R. 2021. Extensive photobiont sharing in a rapidly-radiating cyanolichen clade. *Molecular Ecology* (from the cover) 30: 1755–1776. First published: 20 Oct 2020 (<https://doi.org/10.1111/mec.15700>).
23. Lücking R, Kaminsky L, Perlmutter GB, Lawrey JD, **Dal Forno M**. 2020. *Cora timucua* (Hygrophoraceae), a new and potentially extinct, previously misidentified basidiolichen of Florida inland scrub documented from historical collections. *The Bryologist* 123(4): 657–673. (<https://doi.org/10.1639/0007-2745-123.4.657>)
22. **Dal Forno M**, Kaminsky L, Rosentreter R, McMullin T, Aptroot A, Lücking R. 2019. A first phylogenetic assessment of *Dictyonema* s.lat. in southeastern North America reveals three new basidiolichens, described in honor of James D. Lawrey. *Plant & Fungal Systematics* 64 (2): 383–392. (<https://doi.org/10.2478/pfs-2019-0025>).
21. Lücking R, **Dal Forno M**, Wil-Wolf S. 2019. James Donald ('Jim') Lawrey: a tribute to a unique career in lichenology. *Plant & Fungal Systematics* 64 (2): 117–135. (<https://doi.org/10.2478/pfs-2019-0014>).
20. **Dal Forno M**, Moncada B, Lücking R. 2018. *Sticta aongstroemii*, a newly recognized species in the *S. damicornis* morphodeme (Lobariaceae) potentially endemic to the Atlantic Forest in Brazil. *The Lichenologist* 50(6): 691–696. (<https://doi.org/10.1017/S0024282918000403>).

19. Graves G & Dal Forno M. 2018. Persistence of Transported Lichen at a Hummingbird Nest Site. *Northeastern Naturalist* 25(4): 656–661.
18. Dal Forno M, Bungartz F, Lücking R, Yáñez-Ayabaca A, Lawrey JD. 2017. High levels of endemism in Galapagos basidiolichens. *Fungal Diversity* 85: 45–73. <https://doi.org/10.1007/s13225-017-0380-6>
17. Lücking R, Dal Forno M, Moncada B, et al. (50 more authors). 2016. Turbo-taxonomy to assemble a megadiverse lichen genus: seventy new species of *Cora* (Basidiomycota: Agaricales: Hygrophoraceae), honouring David Leslie Hawksworth's seventieth birthday. *Fungal Diversity* 84: 139–207.
16. Dal Forno M, Lücking R, Bungartz F, Yáñez-Ayabaca A, Marcelli MP, Spielmann AA, Coca LF, Chaves JL, Aptroot A, Sikaroodi M, Gillevet PM, Sipman HJM, Lawrey JD. 2016. From one to six: unrecognized species diversity in the genus *Acantholichen* P. M. Jørg. (lichenized Basidiomycota: Hygrophoraceae). *Mycologia* 108(1): 38–55.
15. Ariyawansa HA, Hyde KD, Jayasiri SC, et al. (124 more authors including Dal Forno M). 2015. Fungal diversity notes 111–252—taxonomic and phylogenetic contributions to fungal taxa. *Fungal Diversity* 75: 27–274.
14. Lawrey JD, Etayo J, Dal Forno M, Driscoll KE, Diederich P. 2015. Molecular data support establishment of a new genus for the lichenicolous species *Neobarya usneae* (Hypocreales). *The Bryologist* 118 (1): 83–92.
13. Schmull M, Dal Forno M, Lücking R, Cao S, Clardy J, Lawrey JD 2014. *Dictyonema huaorani* (Agaricales: Hygrophoraceae), a new lichenized basidiomycete from Amazonian Ecuador with presumed hallucinogenic properties. *The Bryologist* 117 (4): 386–394.
12. Lücking R, Dal Forno M, Sikaroodi M, Gillevet PM, Bungartz F, Moncada B, Yáñez-Ayabaca A, Coca LF, Chaves JD, Lawrey JD 2014. A single macrolichen constitutes hundreds of unrecognized species. *Proceedings of the National Academy of Sciences of the United States of America* 111 (30): 11091–11096. <https://doi.org/10.1073/pnas.1403517111> (major media coverage: National Geographic, Science News, Charles Darwin Foundation, Field Museum, Smithsonian, The Scientist, Pysics.Org, etc., available at: mbac.gmu.edu/mbac_wp/lichen-project/)
11. Lücking R, Lawrey JD, Gillevet PM, Sikaroodi M, Dal Forno M, Berger SA. 2014. Multiple ITS haplotypes in the genome of the lichenized basidiomycete *Cora inversa* (Hygrophoraceae): Fact or artifact? *Journal of Molecular Evolution* 78: 148–162.
10. Lücking R, Dal Forno M, Wilk K, Lawrey JD. 2013. Three new species of *Dictyonema* (lichenized Basidiomycota: Hygrophoraceae) from Bolivia. *Acta Nova* 6 (1-2): 4–16. ISSN: 1683-0768.
09. Lücking R, Dal Forno M, Lawrey JD, Bungartz, F, Holgado Rojas ME, Hernández JE, Marcelli MP, Moncada B, Morales EA, Nelsen MP, Paz E, Salcedo L, Spielmann AA, Wilk K, Will-Wolf S, Yáñez-Ayabaca A. 2013. Ten new species of lichenized Basidiomycota in the genera *Dictyonema* and *Cora* (Agaricales: Hygrophoraceae), with a key to all accepted genera and species in the *Dictyonema* clade. *Phytotaxa* 139: 1–38.
08. Dal Forno M, Lawrey JD, Sikaroodi M, Bhattarai S, Gillevet PM, Sulzbacher M, Lücking R. 2013. Starting from scratch: evolution and diversification of the lichen thallus in the basidiolichen *Dictyonema* (Agaricales: Hygrophoraceae). *Fungal Biology* 117 (9): 584–598. <https://doi.org/10.1016/j.funbio.2013.05.006>
07. Gostel MR, Dal Forno M, Weeks A. 2013. A navigation guide to cyberinfrastructure tools for botanical and lichenological systematics research. *Plant Science Bulletin* 59 (3): 111–130. Website: http://www.botany.org/students_corner/systematics_resources.php

06. Yáñez A, **Dal Forno M**, Bungartz F, Lücking R, Lawrey JD. 2012. A first assessment of Galapagos basidiolichens. *Fungal Diversity* 52(1): 225–244.
05. Lumbsch HT, Ahti T, Altermann S, et al. (102 more authors including **Dal Forno M**). 2011. One hundred new species of lichenized fungi: a signature of undiscovered global diversity. *Phytotaxa* 18: 1–127.
04. **Dal Forno M**, Eliasaro S. 2010. Two new species of *Graphidaceae* (lichenized *Ascomycota*) from Brazil. *Mycotaxon* 112: 15–20.
03. **Dal Forno M**, Eliasaro S. 2010. Four New Species of *Graphis* (*Ostropales: Graphidaceae*) from Brazil. *The Lichenologist* 42(1): 77–81.
02. Torres-Boeger MR, Soffiatti P, Gomes-Souto MA, Budchen M, Bagatini KP, **Dal Forno M**. 2010. Functional morphology of two *Lepismium* species (Rhipsalideae, Cactaceae). *Revista Mexicana de Biodiversidad* 81: 383–400.
01. **Dal Forno M** & Eliasaro, S. 2009. Two new species of *Acanthothecis* (lichenized *Ascomycota*) from Brazil. *Mycotaxon* 109: 43–47.

NON-REFEREED ARTICLES

16. Spielmann AA, Aptroot A, Cáceres MES, Canêz LS, Dias IPRC, **Dal Forno M**, Honda NK, Jungbluth P, Käffer MI, Koch NM, Micheletti AC, Pereira E, Vidigal Fraga Junior CA. 2023. Brasil: o país dos líquens. *Boletim Micobiota* Volume 3 – Número 4: 5–14 (on the cover).
15. **Dal Forno M**, Ellis C, Myllys L. 2023. The Lichenologist Editor’s Choice Award. *The Lichenologist* 55: 441.
14. **Dal Forno M**, Spielmann AA. 2023. Líquen da vez (8) – *Cora reticulifera* Vain., 1890. *Boletim Micobiota* Volume 3 – Número 3: 22–23.
13. **Dal Forno M**, Wen J. 2023. Plant and lichen discovery in the southern Philippines. *The Plant Press* 26 (2): 1–5. Available at: <https://nmnh.typepad.com/files/vol26no2.pdf>
12. Benjamin DR, O’Kennon R, **Dal Forno M**. 2021. The importance of looking: *Rhytidhysteron rufulum* in Texas. *FUNGI Magazine* 38 (14:5): 38–40.
11. IAL9 Organizing Committee (Cáceres MES, Spielmann AA, **Dal Forno M**, Canêz L, Koch N) and IAL9 Social Media Committee (Fávaro A, Junior CF, Pereira LC). 2021. The 9th Symposium of the International Association for Lichenology "Unlocking The Inner Lichen" Held Online in Brazil 01–06 August 2021. *International Association for Lichenology Newsletter* 54 (2): 13–17.
10. Mercado-Díaz, **Dal Forno M**, Koch N. 2021. Inclusion, Diversity, Equity and Accessibility: The Challenge of making Lichenology More “Idea-L”. *International Association for Lichenology Newsletter* 54 (2): 31–32.
09. Lücking R, **Dal Forno M**, Will-Wolf S. 2021. The Acharius medal: James D. Lawrey. *International Association for Lichenology Newsletter* 54 (2): 4–6.
08. Cáceres MES, Spielmann AA, **Dal Forno M**, Canêz L, Koch N. 2021. IAL9: International Association for Lichenology. In Hawksworth DL: *MycNews 2021: President’s message, IMA statutes, news, reports, awards, personalia, and book news*. *IMA Fungus* 12, 36.
07. **Dal Forno M** & Jacob J. 2020. Lichens of the Thomas Jefferson Memorial. Report submitted to the National Park Services.
06. Campbell K, **Dal Forno M**, Mercado-Diaz J. 2018. The Christmas Lichen (*Herpothallon rubrocinctum*). Glimpses of Jamaica’s Natural History. *Jamaica Journal* 37, Nos. 1–2: back cover.

- 05. Dal Forno M** & Jacob J. 2018. Lichens of the Arlington Cemetery Amphitheater. Report submitted to the National Park Services.
- 04. Dal Forno M.** 2016. We Are All Lichens. *The Plant Press* 19 (4): 1, 13–14. Available at: <http://nmnh.typepad.com/files/vol19no4.pdf>
- 03.** Aptroot A, Mercado-Díaz JA, Bárcenas-Peña A, Cáceres MES, Coca LF, **Dal Forno M**, Feuerstein SC, Herrera-Campos MA, Joshi S, Kirika PM, Kraichak E, Lumbsch HT, Miranda-González R, Moncada B, Nelsen MP, Pérez REP, Scharnagl K, Medina ES, Yáñez-Ayabaca A, Lücking R. 2014. Rapid assessment of the diversity of “vehiculicolous” lichens on a thirty year old Ford Bronco truck in central Puerto Rico. *FUNGI Magazine* 7 (2-3): 22–27. Available at: <http://www.fungimag.com/summer-2014-articles/LR1%20V7I2%2022-27%20Vehiculicolous.pdf>
- 02.** Lücking R, **Dal Forno M**, Moncada B, Chaves JL, Lawrey JD. 2014. The Enchanted Jungle. *FUNGI Magazine* 7 (2-3): 28–31. Available at: <http://www.fungimag.com/summer-2014-articles/LR1%20V7I2%2028-31%20Jungle.pdf>
- 01.** Moncada B, Lawrey JD, Chaves JL, **Dal Forno M**, Lücking R. 2012. Lichens of the Costa Rican Premontane Wet Forest. Available at: <https://fieldguides.fieldmuseum.org/guides/guide/396>

GRANTS, AWARDS AND FELLOWSHIPS

2020	NSF Collaborative Research: Plant discovery in the southern Philippines (PI: P. Fritsch; co-PIs: D. Nickrent & M. Dal Forno, DEB 1754697). \$950,001
2019	Programming for Evolutionary Biology. €500
2018	Smithsonian Institution Peter Buck Fellowship. \$112,800
2018	Smithsonian Institution Barcoding Network. \$15,000
2017	Natural History Society of Styria. €150
2016	Global Genome Initiative 2016 Exploratory Awards Program. \$6,491
2016	NSF Postdoctoral Research Fellowship in Biology for FY 2016, Research Using Biological Collections. \$138,000
2015	AJ Sharp Award (best student presentation). American Bryological and Lichenological Society. \$500
2015	American Bryological and Lichenological Society; travel award. \$600
2015	George Mason University Graduate Student Association; travel award. \$250
2014	American Bryological and Lichenological Society; travel award. \$900
2013	American Bryological and Lichenological Society; travel award. \$600
2007	Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES) Masters 2-year fellowship. R\$28,800
2006	Award for Highest Grade in the Biology Class of 2006. Universidade de Santa Cruz do Sul, Brazil
2005	Award for Best Undergraduate student presentation in the category of scientific research in biology. Universidade de Santa Cruz do Sul, Brazil
2004	Undergraduate Research Fellowship. Programa UNISC de Iniciação Científica (Bolsa PUIC). R\$3,600
2003	Undergraduate Research Fellowship. Fundação de Amparo à Pesquisa do Estado do Rio Grande do Sul (FAPERGS). R\$3,000

29. **Dal Forno M.** 2023. Nature's Hidden Partners: Unraveling Lichens Basics. University of the Philippines-Manila, Philippines.
28. **Dal Forno M.** 2023. Hidden Gems: Lichen Collections as Sources of Multiple Data Layers. University of Cincinnati, Ohio.
27. **Dal Forno M.** 2022. Taxonomia Integrativa com Cianolíquens: Sistemática, Microbioma e Interações. Simpósio em Botânica Aplicada da Universidade Federal de Lavras (SIMBOT), MG, Brazil.
26. **Dal Forno M, Moncada B.** 2022. Lichens: 20K Symbioses Wanting Your Attention. Central Mindanao University, Valencia, Philippines.
25. **Dal Forno M, Gerlach A.** 2022. Lichens of the Philippines: How to collect them? A collaboration between FWBG | BRIT and Filipino universities, online.
24. **Dal Forno M, Lawrey JD, Lücking R.** 2021. Photobiont diversity and specificity in cyanolichens of the *Dictyonematinae* subtribe. 9th International Association for Lichenology Symposium, Brazil.
23. **Dal Forno M.** 2021. Espécies brasileiras com dados moleculares com ênfase nos Basidiolíquens. I SIMBLIQ, Campo Grande, MS, Brazil.
22. **Dal Forno M.** 2021. The lichen dilemma: unveiling diversity in multi-species symbioses. 2021 Smithsonian Botanical Symposium.
19. **Dal Forno M.** 2021. Lichen Diversity and its Multifaceted Symbioses. Ithaca College, Ithaca, NY.
20. **Dal Forno M.** 2020. El Microbiome de los Líquenes: Conceptos, Desafíos y Oportunidades. IV Congreso Nacional de Liquenología del Perú – I Congreso Nacional de Lomas.
19. **Dal Forno M.** 2019. Utilizing Integrative Approaches to Tackle Hidden Diversity in Lichens. Duke University, Durham, NC.
18. **Dal Forno M.** 2019. Lichens: 20K Symbioses Wanting Your Attention. Botanical Research Institution of Texas, Fort Worth, TX.
17. **Dal Forno M.** 2019. It Takes a Village: Lichens as Complex Symbiotic Systems. University of California Berkeley, Berkeley, CA.
16. **Dal Forno M.** 2018. Lichen microbiomes: How much do we know? Study case of the *Dictyonema* clade (Basidiomycota: Hygrophoraceae). Universidade Federal de Mato Grosso do Sul, Campo Grande, MS, Brazil.
15. **Dal Forno M.** 2018. Lichen Expeditions in the Blue Mountains, Jamaica and the Mantiqueira Mountains, Brazil. Karl-Franzens-Universität Graz (University of Graz), Graz, Austria.
14. **Dal Forno M, Mercado-Diaz J.** 2018. Introduction to lichens and overview of their diversity in the Caribbean. The University of The West Indies, Kingston, Jamaica.
13. **Dal Forno M.** 2017. Lichens: 20K Symbioses Wanting Your Attention. Butler University, Indianapolis, IN.

12. **Dal Forno M.** 2017. Lichen Collections as Sources of Multiple Data Layers. Technische Universität Graz (Graz University of Technology), Graz, Austria.
11. **Dal Forno M.** 2017. Lichen Battlefield: Mycobiont versus Photobiont Diversity in Tropical *Dictyonema* Basidiolichens. Karl-Franzens-Universität Graz (University of Graz), Graz, Austria.
10. **Dal Forno M.** 2017. Utilizing Integrative Taxonomy to Disentangle Lichen Diversity. Senate of Scientists Lighting Talks. National Museum of Natural History, Washington, DC. Talk available at: https://www.youtube.com/watch?v=qVAUAH-L_r0&t=110s
09. **Dal Forno M.** 2017. The multitudes of lichen collections: Examples from the tropical basidiolichen clade *Dictyonema*. Botanical Society of Washington, Washington, DC.
08. **Dal Forno M.** 2017. The World of Lichens: Modern Concepts and Identification Characters. Virginia Native Plant Society – Winter Workshop, Richmond, VA.
07. **Dal Forno M**, Lücking R, Lawrey JD. 2016. Filogenia e distribuição de líquens do clado *Dictyonema* no Brasil (Hygrophoraceae: Basidiomycota). VIII Congresso Brasileiro de Micologia, Florianópolis, Brazil.
06. **Dal Forno M.** 2016. Evolution and diversity of the basidiolichen clade *Dictyonema* (Agaricales: Hygrophoraceae). National Zoo Seminar Series, Washington, DC.
05. **Dal Forno M**, Lücking R, Lawrey JD. 2015. Comparison of the diversity of symbionts in the lichen *Dictyonema* c. Agardh ex Kunth s. lat. (Hygrophoraceae). VIII Congreso Colombiano de Botánica, Manizales, Colombia.
04. **Dal Forno M**, Lücking R, Lawrey JD. 2014. Diversidade nos gêneros *Cora* e *Corella* (Agaricales: Hygrophoraceae). VII Encontro do Grupo Brasileiro de Liqueólogos, Porto Alegre, Brazil.
03. **Dal Forno M**, Lawrey JD, Lücking R. 2014. From a single species to one hundred and sixty and counting: a case of unrecognized diversity in a well-known macrolichen. Annual meetings of the Botanical Society of America and the American Bryological and Lichenological Society, Boise, ID.
02. **Dal Forno M**, Lawrey JD, Lücking R. 2012. Como identificar *Dictyonema*? Uma tentativa de avaliar importantes características no grupo. VI Encontro do Grupo Brasileiro de Liqueólogos, Botucatu, Brazil.
01. **Dal Forno M.** 2008. Caracteres de importância taxonômica para identificação de gêneros em Graphidaceae Dumortier. IV Encontro do Grupo Brasileiro de Liqueólogos, Curitiba, Brazil.

TEACHING AND TRAINING EXPERIENCE

INSTRUCTOR

- | | |
|-----------|--|
| 2014–2015 | Graduate Teaching Assistant
Introductory Biology I (instructor of record for 6 classes of 25 students each)
George Mason University, VA |
| 2009–2010 | K-12 Instructor
Audubon Center of the North Woods, Sandstone, MN |
| 2007 | Graduate Teaching Assistant
Mycology Laboratory
Universidade Federal do Paraná, Brazil |
| 2005 | Biology Visiting Instructor – High School Level
Educar-se, Santa Cruz do Sul, Brazil |

2005 **Science Visiting Instructor – 7th Grade**
Educar-se, Santa Cruz do Sul, Brazil

WORKSHOPS OFFERED

2023 Lichens, Biofilm and Stone (with Judy Jacob)
Eagle Hill Institute, Maine, USA

2022 Lichens: 20K Symbioses Wanting Your Attention (with Bibiana Moncada)
Central Mindanao University, Valencia, Philippines.

2017 Utilizing Molecular Resources in Research (with Morgan Gostel)
Universidade de Santa Cruz do Sul, Brazil

2015 Neotropical Lichens (with Luis Fernando Coca)
Universidad de Caldas, Colombia

MENTORSHIP AND CO-MENTORSHIP*

2023–2027 PhD Student Yvonne Love Cariño
University of Texas at Arlington (PhD Co-Advisor: JC Buckner)

2023 Postdoctoral Researcher Alice Gerlach
Volunteers Smruti Das and Gabriel Sturek
Lab Technician Maddie Rzucidlo
Masters Students Franchesca Vega and Ermalene Taer
Undergraduate Student Queenie Pie Abaya
Project: Lichens of the Southern Philippines

2022 Hockaday School (one high school student)

2022 Texas Christian University (one undergraduate student)

2019 Smithsonian Graduate Student Fellowship. PhD Student Julia Adams
University of California Riverside (PhD Advisor: Jason Stajich)
Project: Lichen Symbiont Diversity Across Environmental Gradients in the Mojave Desert

2019 Smithsonian YES! Program (two high school students) at NMNH
Project: Investigating Lichen Diversity

2018 Smithsonian YES! Program (two high school students) at NMNH
Project: Investigating Lichen Diversity in the Tropics

2018 Smithsonian Internship Program (one high school student) at NMNH
Project: A glimpse of the past: mining data from lichens in the National Herbarium

2014 Thomas Jefferson High School for Science and Technology (one high school student) and GMU Aspiring Scientists Summer Internship Program
Project: Species circumscription of *Parmotrema tinctorum* in Brazil

2012–2013 Thomas Jefferson High School for Science and Technology (one high school student) and GMU Aspiring Scientists Summer Internship Program
Project: Phylogeny of *Cladonia* Inferred from DNA Sequences

2007 Lichenology Laboratory (two undergraduate students) at UFPR*

STUDENT RESEARCH EXPERIENCE

2013–2014 **Graduate Research Assistant**
Microbiome Analyses Center, George Mason University, USA

- 2010–2013 **Graduate Research Assistant**
NSF DEB 0841405. Project: Phylogenetic diversity and phenotype evolution in *Dictyonema*, with emphasis on the Neotropics and the Galápagos Islands
George Mason University, USA
- 2007–2009 **Graduate Research Assistant – Lichenology Laboratory**
Project: The family Graphidaceae in Pontal do Sul, Pontal do Paraná, Brazil
Universidade Federal do Paraná, Brazil
- 2005 **Undergraduate Intern – Anatomy Laboratory**
Project: Application of 2-(2-hydroxyphenyl) benzazoles as fluorochromes for anatomical assessment of patterns of vascularization: part 2. Intestinal vascularization
Universidade de Santa Cruz do Sul, Brazil
- 2004 **Undergraduate Intern – HCB Herbarium/Botany Laboratory**
Project: Macrolichens of the Cinturão Verde of Santa Cruz do Sul
Universidade de Santa Cruz do Sul, Brazil
- 2003–2004 **Undergraduate Intern – Biology Laboratory**
Project: Identification of pollen grains and exsiccates (palynology)
Universidade de Santa Cruz do Sul, Brazil

CONFERENCE ACTIVITY/PARTICIPATION

CONFERENCES AND SYMPOSIA ORGANIZED (4)

- 2019–2021 Symposium Organizer (Gueidan C & Dal Forno M)
New approaches to harness genetic data from herbarium specimens
9th International Association for Lichenology Symposium (2020)
- 2016–2021 Secretary
9th International Association for Lichenology Symposium (2020)
- 2018 Symposium Organizer (Dal Forno M & Lücking R)
Evolution and diversity of lichenization in the Basidiomycota
11th International Mycological Congress. San Juan, Puerto Rico
- 2008 Secretary
IV Encontro do Grupo Brasileiro de Liqueólogos

CONFERENCES PRESENTATIONS

PRESENTER IS UNDERLINED

Fávaro A, Dal Forno M, Stanton D, Lourenço LCO, Coelho FF. 2023. Micronutrient supply and high CO₂ concentrations as possible drivers of biological nitrogen fixation in cyanolichens. Ecological Society of America, USA.

Lücking R, Moncada B, Pérez-Pérez RE, **Dal Forno M**, Lawrey JD. 2021. Migration of *Cora* into Central America following diversification in the Northern Andes supports late closure of the Panamanian Isthmus. 9th International Association for Lichenology Symposium, Brazil.

Moncada B, Dal Forno M, Coca LF, Lücking R. 2021. Cuando Una Especie Son Muchas: *Cora*, Un Basidioliquen Ejemplo De Diversidad Subestimada. XXIII Seminario de Investigaciones Biológicas, Colombia.

Fritsch PW, Penneys DS, Nickrent DL, **Dal Forno M**, Amoroso VB, Coritico FP, Shevock JR, Brinda JC, Gerlach A, Mancera JP, Galindon JM, Tandang DN, Handley V. 2020. Plant and

lichen discovery in the southern Philippines: results from initial expeditions. Video presentation at online Botany 2020 conference, 27–31 July.

Dal Forno M, Schuettpelz E, Grube M. 2019. Lichen Microbiomes: How Much Do We Know And What's Next? 87th Meeting of the Mycological Society of America, Minneapolis, MN.

Dal Forno M, Sikaroodi M, Lawrey JD, Lücking R, Gillevet PM, Schuettpelz E, Grube M. 2018. Microbiome of basidiolichens of the *Dictyonema* clade (Hygrophoraceae, Agaricales). 11th International Mycological Congress, Puerto Rico.

Cáceres M, **Dal Forno M**, Barreto F, Aptroot A. 2018. Unexpected Basidiolichen diversity discovered in lowland Brazilian forests. 11th International Mycological Congress, Puerto Rico.

Coca LF, Lücking R, Moncada B, **Dal Forno M**. 2018. Diversity and evolution of lichenized basidiomycota from Colombia. 11th International Mycological Congress, Puerto Rico.

Moncada B, **Dal Forno M**, Lücking R. The genus *Cora* in Colombia: Diversification of a hyperdiverse, basidiolichenforming clade in the northern Andes. 11th International Mycological Congress, Puerto Rico.

Lawrey JD, **Dal Forno M**, Lücking R. 2018. The origin and phylogenetic diversity of lichen-forming fungi in the Basidiomycota. 11th International Mycological Congress, Puerto Rico.

Dal Forno M, Sikaroodi M, Lawrey JD, Lücking R, Gillevet PM, Grube M. 2017. First insights into the microbiome of different morphologies in the *Dictyonema* clade. Lichen Genomics Workshop II, Austria.

Dal Forno M, Lücking R, Sikaroodi M, Gillevet PM, Lawrey JD. 2016. Photobiont diversity in cyanolichens of the *Dictyonema* clade (Hygrophoraceae: Basidiomycota). 8th International Association for Lichenology Symposium, Finland.

Lücking R, **Dal Forno M**, Moncada B, Vargas LY, Bungartz F, Lawrey JD. 2016. From one to one hundred and eighty species: phenotypical and ecogeographical diversification in the genus *Cora* (lichenized Basidiomycota: Hygrophoraceae). 8th International Association for Lichenology Symposium, Finland.

Lücking R, Moncada B, **Dal Forno M**. 2016. PhyloKey: A novel method to rapidly and reliably identify species in complex, species-rich genera. 8th International Association for Lichenology Symposium, Finland.

Dal Forno M, Lawrey JD, Lücking R. 2015. Mycobiont versus photobiont diversity in the *Dictyonema* clade (Agaricales: Hygrophoraceae). Annual meetings of the Botanical Society of America and the American Bryological and Lichenological Society, Canada. (AJ Sharp Award for best student presentation)

Dal Forno M, Lücking R, Bungartz F, Lawrey JD. 2015. High levels of endemism in Galapagos Islands basidiolichens of the *Dictyonema* clade: An updated assessment including molecular data and taxonomic novelties. Annual meetings of the Botanical Society of America and the American Bryological and Lichenological Society, Canada.

Dal Forno M, Lücking R, Lawrey JD. 2014. The genus *Acantholichen* P. M. Jørg. (lichenized Basidiomycota: Hygrophoraceae) revisited. Annual meetings of the Botanical Society of America and the American Bryological and Lichenological Society, Boise, ID.

Dal Forno M, Lawrey JD, Sikaroodi M, Gillevet PM, Lücking R. 2013. Espécies de *Dictyonema* sensu lato (Agaricales: Hygrophoraceae) no Brasil. 7^a Reunião Brasileira de Estudos Liquenológicos, Brazil.

- Dal Forno M**, Lawrey JD, Sikaroodi M, Gillevet PM, Lücking R. 2013. Evolution and diversity of the tropical basidiolichen clade *Dictyonema* sensu lato: an example of how molecular data and classic taxonomy work well together. Annual meetings of the Botanical Society of America and the American Bryological and Lichenological Society, New Orleans, LA.
- Lücking R, **Dal Forno M**, Lawrey JD. 2013. Last but not least: Witnessing the 'birth' of lichenization in the Basidiomycota. Annual meetings of the Botanical Society of America and the American Bryological and Lichenological Society, New Orleans, LA.
- Dal Forno M**, Lücking R, Sikaroodi M, Lawrey JD. 2012. Filogenia de *Dictyonema* s.l. – novos conceitos genéricos no grupo. VI Encontro do Grupo Brasileiro de Liqueólogos, Brazil.
- Dal Forno M**, Moncada B, Chaves JL, Lawrey JD, Lücking R. 2012. Tour de liquens em Las Cruces Biological Station, Costa Rica – um modelo de como introduzir os liquens em atividades educacionais. VI Encontro do Grupo Brasileiro de Liqueólogos, Brazil.
- Dal Forno M**, Lücking R, Bungartz F, Yáñez-Ayabaca A, Lawrey JD. 2012. Genus and Species Concepts in *Dictyonema* s.l. 7th International Association for Lichenology Symposium, Thailand.
- Dal Forno M**, Eliasaro S. 2009. O gênero *Phaeographis* (Graphidaceae) em restinga em Pontal do Sul, Pontal do Paraná, Paraná. IV Reunião Brasileira de Estudos Liqueológicos, Brazil.
- Dal Forno M**, Eliasaro S. 2008. O gênero *Graphis* Adans. (Graphidaceae Dumort.) em restinga em Pontal do Sul, Pontal do Paraná, Paraná. IV Encontro do Grupo Brasileiro de Liqueólogos, Brazil.
- Grisi FA, Bagatini KP, Nogueira L, **Dal Forno M**, Boeger MRT, Soffiatti P. 2007. Morfologia funcional de *Lepismium lumbricoides* Barthlot (Cactaceae), epífito ocorrente em floresta ombrófila mista”. XI Congresso Brasileiro de Fisiologia Vegetal, Brazil.
- Dal Forno M**, Putzke MTL. 2006. Levantamento de gêneros de macrolíquens corticícolas encontrados no Cinturão Verde, município de Santa Cruz do Sul, RS, Brasil. 57^o Congresso Nacional de Botânica, Brazil.
- Dal Forno M**, Bartholdy LM, Gobbi L, Nazer MB, Neto LK, Corbelini V. 2006 Aplicação de 2-(2'-hidroxifenil) benzazolas como fluorocromos para avaliação de padrões anatômicos de vascularização: parte 2. Vascularização Intestinal. 58^a Reunião Anual da SBPC, Brazil.

OUTREACH AND SERVICE TO PROFESSION

COMMUNITY INVOLVEMENT AND OUTREACH PROGRAMS

- | | |
|------|--|
| 2023 | Mycological Conference
Arlington, TX |
| 2023 | Lichens: 20K Symbioses Wanting Your Attention.
Eagle Hill Institute, Maine. |
| 2023 | Talk at The Spence School (NYC), Upper High School Level |
| 2023 | Host of the Lichen Week at BRIT (Social Media posts, volunteers, two talks) |
| 2022 | Lichens Dallas Nature Channel |
| 2021 | Lichens!
Friends of the Southwest Nature Preserve |
| 2021 | The World of Lichens
Trinity Forks Chapter of the Native Plant Society of Texas |
| 2021 | The Secret Life of Lichens Exploring by The Seat of Your Pants
Global Biodiversity Festival |

- 2021 Liberty's Promise Career Panel
Smithsonian National Museum of Natural History, Washington, DC
- 2021 "Lichen 101"
Galveston Bay Area Chapter Texas Master Naturalist
- 2021 "Lichens"
Indian Trail Chapter Texas Master Naturalist
- 2021 Lichen Walk and Collecting Training
Wakefield Heights Park
- 2020 Intro Lichenology
Texas Master Naturalist Blackland Prairie Chapter
- 2020 Lichen Lab in Environmental Microbiology Course (invited speaker)
George Mason University
- 2020 Lichens 101: Everything you need to make lichens part of your naturalist life
Texas Master Naturalist Annual Meeting
- 2020 Lichens 101
North Texas Master Naturalist
- 2020 Brookline Public Schools – Heath School
- 2020 The Lichen Lifestyle: It's More Complex than You Think
Audubon Naturalist Society
- 2020 iNaturalist City Challenge ID Party
- 2020 **What's a Lichen? With Lichenologist Manuela Dal Forno Webinar**
Smithsonian Science How. One talk (approx. 1h) available at:
<https://naturalhistory.si.edu/education/teaching-resources/life-science/webinar-whats-lichen>
- 2020 You + Me = Symbioses
Smithsonian Associates, Washington, DC
- 2019 **What's a Lichen? How a Smithsonian Scientist Studies a Unique Symbiosis Live Broadcast**
Smithsonian Science How. Two talks (approx. 48 min) available at:
<https://www.ustream.tv/recorded/124607003>
<https://www.ustream.tv/recorded/124609758>
- 2019 Women in Science Panel (NMNH and L'Oreal partnership)
Smithsonian National Museum of Natural History, Washington, DC
- 2019 Talk and Walk: Lichens 101
Patuxent Research Refuge and Patuxent Wildlife Research Center
- 2019 "Herbology" Class: Magic Lichens
Hogwarts Summer Camp, Washington, DC
- 2019 **Exploring the Amazing World of Lichens Live Broadcast**
Smithsonian Science How. Two talks (approx. 42 min) available at:
<http://www.ustream.tv/recorded/120830052>
<http://www.ustream.tv/recorded/120831187>
- 2019 Why lichens? Or better... Why not lichens?
Teen Science Café – A New Approach to STEM, Washington, DC
- 2019 Lichens 101
The Mycological Association of Washington, DC

- 2018-2019 Volunteer in the project “Collection and identification of lichens on the Patuxent Research Refuge and Patuxent Wildlife Research Center”
- 2018 Talk and Walk: Lichens 101
Patuxent Research Refuge and Patuxent Wildlife Research Center
- 2018 Nature Challenge Washington DC – Species Identification Evening
Smithsonian National Museum of Natural History, Washington, DC
- 2018 Nature Challenge Washington DC
Kenilworth Park and Aquatic Gardens, Washington, DC
- 2018 Talk and Walk: Lichens 101
Long Branch Nature Center, Arlington, VA
- 2018 Talk and Walk: Lichens 101 – Second Edition
National Association for Interpretation (NAI) Region 2 Chesapeake Beltway Chapter, Riverbend Park, Great Falls, VA
- 2018 Why Lichens? Or better... Why Not lichens?
Oyster-Adams Bilingual School, Washington, DC
- 2017 “Herbology” Class: Magic Lichens
Hogwarts Summer Camp, Washington, DC
- 2017 The Expert is In Series: Liking Lichens
Smithsonian National Museum of Natural History, Washington, DC
- 2017 Nature Challenge Washington DC
National Museum of Natural History – The Mall, Washington, DC
- 2017 Talk and Walk: Why Lichens Are The Coolest
Virginia Native Plant Society, Wicomico Church, VA
- 2017 Talk and Walk: Lichen Basics
Jug Bay Wetlands Sanctuary, Lothian, MD
- 2017 Talk and Walk: Lichens 101 – First Edition
NAI Region 2 Chesapeake Beltway Chapter, Riverbend Park, Great Falls, VA
- 2016 YES! Science Speed Date Event. NMNH, Washington, DC
- 2016 BioBlitz: Lichen Inventory from the Theodore Roosevelt Island
Washington, DC
- 2013 Observatory Talk Series: The World of Lichens
George Mason University, Fairfax, VA
- 2013 Observatory Talk Series: Happy FUNGIving – Introduction to Symbiosis
George Mason University, Fairfax, VA
- 2012 Two lichen tours (day and night), in English and Spanish
Las Cruces Field Station, Costa Rica
- 2010 Fungi and Lichen Educational Display
Audubon Center of the North Woods, Sandstone, MN

PARTICIPATION IN COMMITTEES

- 2023–2027 Secretary of the American Bryological and Lichenological Society.
- Current IAL IDEA Committee Co-Chair
- Current IUCN Lichen Specialist Group
- Current IAL Nomination Committee Member

- 2023 PhD Examining Board Member. Student: Lidiane Alves dos Santos.
Universidade Federal de Pernambuco
- 2022–2023 PhD Examining Board Member. Student: Jean Marc Edson Torres Pineda
Universidade Federal do Mato Grosso do Sul, Campo Grande, Brazil
- 2021 The Dharani Awasthi Award Committee Member
International Association for Lichenology
- 2016–2021 Organizing Committee, Secretary
9th International Association for Lichenology Symposium (2016–2021)
- 2016–2021 Chair of the Scientific Committee
9th International Association for Lichenology Symposium (2018–2021)
- 2019 Early-Career Scientist Committee
Associate Director of Science Search, NMNH
- 2018 PhD Examining Board Member. Student: Mayara Scur.
Universidade Federal do Rio Grande do Norte, Lagoa Nova, Brazil
- 2017 PhD Examining Board Member. Student: Alice Gerlach.
Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil
- 2008 Organizing Committee, Secretary
Encontro do Grupo Brasileiro de Liquenólogos

PROFESSIONAL MEMBERSHIPS (4)

American Bryological and Lichenological Society (ABLS)
Grupo Brasileiro de Liquenólogos (GBL)
Grupo Latino Americano de Liquenólogos (GLAL)
International Association for Lichenology (IAL)

JOURNAL, GRANT AND BOOK PROPOSAL REVIEWER

Brazilian Journal of Botany, Diversity, Fungal Biology, Molecular Ecology, Molecular Phylogenetics and Evolution, Mycologia, Mycotaxon, Plant & Fungal Systematics, Rannís Icelandic Research Fund, Rodriguésia, The Bryologist, The Lichenologist (**Associated Editor**), Willdenowia, Yale University Press

VIDEO RESOURCES

- 2022 Lichens | Dallas Nature Channel
Part 1: https://www.dallasnaturechannel.com/videos/lichens_manu_brit/
- 2021 The Secret Life of Lichens | Exploring By The Seat of Your Pants
https://www.youtube.com/watch?v=I5eBFzd4D3c&list=PLwKFsJZmdxpEhK9d-PHhHQqQgdM-2Xay0&index=55&tab_channel=ExploringByTheSeatOfYourPants
- 2021 Flower Power – Collaboration with Amon Carter Museum
<https://www.youtube.com/watch?v=IQxmB7fjMsk>
- 2020 What is a Lichen? With Lichenologist Manuela Dal Forno
<https://naturalhistory.si.edu/education/teaching-resources/life-science/webinar-whats-lichen>

- 2019 Meet Lichenologist Manuela Dal Forno
<https://www.youtube.com/watch?reload=9&v=UBoUk7Q4ppo>
- 2019 What's a Lichen? How a Smithsonian Scientist Studies a Unique Symbiosis Live Broadcast
<https://www.ustream.tv/recorded/124607003> (AM show)
<https://www.ustream.tv/recorded/124609758> (PM show)
- 2019 Exploring the Amazing World of Lichens Live Broadcast
<http://www.ustream.tv/recorded/120830052> (AM show)
<http://www.ustream.tv/recorded/120831187> (PM show)
- 2019 Finding Lichens in Washington, DC with Scientist Manuela Dal Forno
<https://www.youtube.com/watch?v=jNe3dxXIL3U>
- 2017 Using Integrative Taxonomy to Disentangle Lichen Diversity
https://www.youtube.com/watch?v=qVAUAH-L_r0&t=373s

SELECTED MEDIA COVERAGE

- 2023 Portrayed in article by Perlmutter & McCormick "The Herbarium's First Cataloged Lichen Gets Identified by DNA Analysis"
<https://ncbg.unc.edu/2023/08/27/the-herbariums-first-cataloged-lichen-gets-identified-by-dna-analysis/>
- 2021 Say Hello to the 6 Newest Species of 2021 by Lindsey Botts
<https://www.sierraclub.org/sierra/say-hello-6-newest-species-2021>
- 2021 Washington Post Piece on *Cora timucua*
https://www.washingtonpost.com/science/new-lichen-found-florida/2021/01/21/9bb8f022-5b69-11eb-b8bd-ee36b1cd18bf_story.html
- 2021 Florida Museum Research News by Halle Marchese
<https://www.floridamuseum.ufl.edu/science/rare-lichen-unique-to-florida-may-be-extinct/>
- 2016 The Plant Press by Gary Krupnick
nmnh.typepad.com/the_plant_press/2016/09/smithsonian-scientists-participate-in-national-bioblitz.html
- 2016 Last Word on Nothing Blog by Helen Fields
www.lastwordonnothing.com/2016/01/28/visit-with-a-lichenologist
- 2014 News at Mason by Michele McDonald
<https://www2.gmu.edu/news/3484>
- 2014 National Geographic by Ed Yong
<http://phenomena.nationalgeographic.com/2014/06/30/one-lichen-species-is-actually-126-and-probably-more/>

EXTRA TRAINING

- 2023 Consortium of Lichen Herbaria (Lichen Portal) Workshop
- 2023 IUCN Lichen Specialist Group Workshop
- 2023 Tuckerman Lichen Workshop in Alabama
- 2021 3rd Lichen Photobiont Symposium
- 2021 Species Delimitation Workshop
- 2020 Programming for Evolutionary Biologists

2020 IUCN Lichen Specialist Group Workshop
2019 Genome Annotation Workshop
2019 Metabarcoding on Qiime2
2018 Data Carpentry
2017 Lichen Genomics Workshop II
2017 De Novo Genome Sequencing for Organismal Biologists Workshop
2016 Illumina Library Preparation Training
2016 Target Enrichment and Bait Capture Workshop
2014 Lichen Biomonitoring Techniques Course
2014 Practical Course of Microlichens
2014 International Lichen Field Symposium (NSF-funded)
2013 Lichen Photography Course
2013 Identification of Tropical Lichens Course
2012 From the Sequence to the Phylogeny Course
2012 Practical Course of Tropical Corticolous Pyrenocarps Lichens
2012 Production of Lichen Metabolites in Bioreactors
2012 Tropical Lichens and Forest Health (OTS Course)
2010 International Galápagos Lichen Workshop
2009 Neotropical Epiphytic Microlichens II
2007 Neotropical Epiphytic Microlichens
2006 Introduction to Lichenology
2006 Ethnobotany
2002 Greek and Latin Roots in Biology
2002 Course of Lichen Identification

FIELD EXPERIENCE

Austria; Brazil; Colombia; Costa Rica; Czech Republic; Ecuador (Continental and Galapagos Islands); Finland; Jamaica; México; Philippines; Puerto Rico; United States; and Thailand.

LANGUAGE SKILLS

English: fluent (speaking, reading, writing)
German: basic (speaking, reading, writing)
Portuguese: native (speaking, reading, writing)
Spanish: advanced (speaking, reading, writing)