

MANUELA DAL FORNO

CURRICULUM VITAE

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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**
Botanical Research Institute of Texas
- Research Associate**
National Museum of Natural History (NMNH), Smithsonian Institution
- 2018–2019 **Peter Buck Postdoctoral Research Fellow – Department of Botany**
National Museum of Natural History, Smithsonian Institution
- Research Associate**
Botanical Research Institute of Texas
- Affiliate Faculty, Department of Biology**
George Mason University
- 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, Smithsonian Institution
- 2015–2016 **Herbarium Assistant**
Ted R. Bradley Herbarium, George Mason University

PUBLICATIONS

PEER REVIEWED

- 21. 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.
- 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.

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.
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. Schnull 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.
(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.
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.

MANUSCRIPTS IN PREPARATION

- Dal Forno M**, Lawrey JD, Sikaroodi M, Gillevet PM, Schuettpelez E, Lücking R. Extensive photobiont sharing in a rapidly-radiating cyanolichen clade. To be submitted to *Molecular Ecology* (available upon request).
- Dal Forno M**, Gillevet PM, Sikaroodi M, Lawrey JD, Lücking R, Schuettpelez E, Grube M. First insights into the microbiome of basidiolichens from the *Dictyonema* clade (Hygrophoraceae, Agaricales). In preparation for submission to *The ISME Journal*.

NON-REFEREED ARTICLES

06. Campbell K, **Dal Forno M**, Mercado-Díaz 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://nrmh.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>

NON-REFEREED ARTICLES IN PREPARATION

Dal Forno M & Jacob J. 2019. Lichens of the Thomas Jefferson Memorial. Report being prepared for the National Park Services (data collection ready).

GRANTS, AWARDS AND FELLOWSHIPS

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 fellowship. R\$28,800
2006	Highest Score in the Class of 2006 in biology award. Universidade de Santa Cruz do Sul, Brazil
2005	Best Undergraduate presentation in the category of scientific research in biology award. Universidade de Santa Cruz do Sul, Brazil
2003	Undergraduate Research Fellowship. Fundação de Amparo à Pesquisa do Estado do Rio Grande do Sul (FAPERGS). R\$3,000

INVITED RESEARCH TALKS

20. *Upcoming May 15 2020: Dal Forno M.* Smithsonian's Botanical Symposium. Plant Symbioses. Smithsonian National Museum of Natural History, Washington, DC.
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.

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

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

- 2017 Utilizing Molecular Resources in Research
Universidade de Santa Cruz do Sul, Brazil
- 2015 Neotropical Lichens
Universidad de Caldas, Colombia

MENTORSHIP (8) AND CO-MENTORSHIP (2)*

- 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*

CONFERENCE ACTIVITY/PARTICIPATION

CONFERENCES AND SYMPOSIA ORGANIZED (4)

- 2019–2020 Symposium Organizer (Gueidan C & Dal Forno M)
New approaches to harness genetic data from herbarium specimens
9th International Association for Lichenology Symposium (2020)
- 2016–2020 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

PAPERS PRESENTED (24)

PRESENTER IS UNDERLINED

- 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 Liquenólogos, Brazil.

- Dal Forno M**, Moncada B, Chaves JL, Lawrey JD, Lücking R. 2012. Tour de líquens em Las Cruces Biological Station, Costa Rica – um modelo de como introduzir os líquens em atividades educacionais. VI Encontro do Grupo Brasileiro de Líquenólogos, 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 Líquenológicos, 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 Líquenólogos, Brazil.
- Grisi FA, Bagatini KP, Nogueira L, **Dal Forno M**, Boeger MRT, Soffiatti P. 2007. Morfologia funcional de *Lepismium lumbricoides* Barthlot (Cactaceae), epífita 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.

FIELD EXPERIENCE

Austria; Brazil; Colombia; Costa Rica; Ecuador (Continental and Galapagos Islands); Finland; Jamaica; 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 (reading, speaking); intermediate (writing)

OUTREACH AND SERVICE TO PROFESSION

COMMUNITY INVOLVEMENT AND OUTREACH PROGRAMS (28)

- 2020 *Upcoming Apr 1 2020*: Title TBD
 North Texas Master Naturalist Chapter, Dallas, TX
- 2020 *Upcoming Feb 14 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 (6)

- Current IUCN Lichen Specialist Group
- Current Chair of the Scientific Committee
9th International Association for Lichenology Symposium (2020)
- 2019 Early-Career Scientist Committee
Associate Director of Science Search, NMNH
- 2018 PhD Examining Board Member
Universidade Federal do Mato Grosso do Sul, Campo Grande, Brazil
- 2018 PhD Examining Board Member
Universidade Federal do Rio Grande do Norte, Lagoa Nova, Brazil
- 2017 PhD Examining Board Member
Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil

PROFESSIONAL MEMBERSHIPS (6)

- American Bryological and Lichenological Society (ABLS)
Grupo Brasileiro de Liquenólogos (GBL)
Grupo Colombiano de Liquenólogos (GCOL)
Grupo Latino Americano de Liquenólogos (GLAL)
International Association for Lichenology (IAL)
Mycological Society of America (MSA)

JOURNAL, GRANT AND BOOK PROPOSAL REVIEWER (11)

Brazilian Journal of Botany, Diversity, Fungal Biology, Molecular Phylogenetics and Evolution, Mycologia, Plant & Fungal Systematics, Rannís Icelandic Research Fund, The Bryologist, The Lichenologist, Willdenowia, Yale University Press

VIDEO RESOURCES (7)

- 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 (two shows)**
<https://www.ustream.tv/recorded/124607003>
<https://www.ustream.tv/recorded/124609758>

- 2019 **Exploring the Amazing World of Lichens Live Broadcast (two shows)**
<http://www.ustream.tv/recorded/120830052>
<http://www.ustream.tv/recorded/120831187>
- 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 (4)

- 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 (23)

- 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 Prep 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