Carlos J. Pardo De la Hoz

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EDUCATION

2018-present Ph.D. in Biology, Duke University, Durham, NC, USA.
Advisor: François Lutzoni.

2013-2018 B.Sc. Microbiology, Universidad de los Andes, Bogotá, Colombia.
"Contrasting symbiotic patterns in two closely related lineages of trimembered lichens of the genus *Peltigera"*.
Co-advisors: François Lutzoni and Silvia Restrepo.

PUBLICATIONS

2022

10. **Pardo-De la Hoz, C. J.**, Medeiros, I. D., Gibert, J. P., Chagnon, P. L., Magain, N., Miadlikowska, J., and Lutzoni, F. (2021). Phylogenetic structure of specialization: A new approach that integrates partner availability and phylogenetic diversity to quantify biotic specialization in ecological networks. *Ecology and Evolution, 12, e8649*.

2021

9. Medeiros, I. D., Mazur, E., Miadlikowska, J., Flakus, A., Rodriguez-Flakus, P., **Pardo-De la Hoz, C. J.**, Cieślak, E., Śliwa, L., and Lutzoni, F. (2021). Turnover of lecanoroid mycobionts and their Trebouxia photobionts along an elevation gradient in Bolivia highlights the role of environment in structuring the lichen symbiosis. *Frontiers in microbiology, 12, 774839.*
8. Stone, D. F., McCune, B., **Pardo-De la Hoz, C. J.**, Magain, N., and Miadlikowska, J. (2021). *Sinuicella denisonii*, a new genus and species in the Peltigeraceae from western North America. *The Lichenologist, 53, 185–192.*

2020

7. Miadlikowska, J., Magain, N., Buck, W. R., Vargas Castillo, R., Barlow, G. T., **Pardo-De la Hoz, C. J.**, LaGreca, S., and Lutzoni, F. (2020). *Peltigera hydrophila* (Lecanoromycetes, Ascomycota), a new semi-aquatic cyanolichen species from Chile. *Plant and Fungal Systematics, 65 (1), 210-218.*

2018

6. Miadlikowska, J., Magain, N., **Pardo-De la Hoz, C. J.**, Niu, D., Goward, T., Sérusiaux, E., Lutzoni, F., (2018). Species in section *Peltidea* (*aphthosa* group) of the genus *Peltigera* remain cryptic after molecular phylogenetic revision. *Plant and Fungal Systematics, 63(2), 45-64.*
5. **Pardo-De la Hoz, C. J**., Magain, N., Lutzoni, F., Goward, T., Restrepo, S., Miadlikowska, J., (2018). Contrasting symbiotic patterns in two closely related lineages of trimembered lichens of the genus *Peltigera. Frontiers in Microbiology, 9, 2770.*

4. Rojas, P., **Pardo-De la Hoz, C. J.**, Calderón, C., Vargas, N., Cabrera, L. A., Restrepo, S., Jiménez, P., (2018). First Report of *Colletotrichum kahawae* subsp. *ciggaro* Causing Anthracnose Disease on Tree Tomato in Cundinamarca, Colombia. *Plant Disease, 102 (10), 2031-2031.*

3. Cabrera,L., Rojas, P., Rojas, S., **Pardo-De la Hoz, C.J.**, Mideros, M. F., Danies, G., Lopez-Kleine, L., Jiménez, P., Restrepo, S., (2018). Most *Colletotrichum* species associated with tree tomato (*Solanum betaceaum*) and mango (*Mangifera indica*) crops are not host-specific. *Plant Pathology, 67(5), 1022-30.*

2017

2. Vargas, N., **Pardo-de La Hoz, C. J.**, Danies, G. Franco-Molano, A. E., Jiménez, P. Restrepo, S. Grajales, A., (2017). Defining the phylogenetic position of *Amanita* species from Andean Colombia. *Mycologia, 109 (2), 261-276.*

2016

1. **Pardo-De la Hoz, C.J.**, Calderón, C., Rincón, A. M., Cárdenas, M., Danies, G., López-Kleine, L., Restrepo, S., Jiménez, P., (2016). Species from the *Colletotrichum acutatum*, *Colletotrichum boninense* and *Colletotrichum gloeosporioides* species complexes associated with tree tomato and mango crops in Colombia. *Plant Pathology, 65(2), 227-237.*

GRANTS AND FELLOWSHIPS

2019	$1,000	Duke Biology Grant-in-Aid of Research.
2018-2019	$4,414	Special Topics Award, Mycological Society of America.
2016	€390	Travel Grant, International Association of Lichenology 8th Meeting.
2012-18	90% of tuition	"Quiero Estudiar" Scholarship, Universidad de los Andes.

AWARDS AND HONORS

2021 Finalist for the Ernst Mayr Award from the Society of Systematic Biologists
Virtual Evolution

2020 Honorable Mention for Teaching
Department of Biology, Duke University.

2018 Elsevier Poster Prize – Evolution Theme
11th International Mycological Congress, San Juan, Puerto Rico.

PRESENTATIONS

2021 Ernst Mayr Symposium, Virtual Evolution.
"Ancient radiation explains most phylogenetic conflicts among core genes from nostocalean cyanobacteria".
Talk

2020 Torrey Botanical Society Guest Lecture, virtual.
"What can lichens teach us about the web of life?".
Talk

2019 Duke Microbiome Center Lunch Seminar, Durham, NC.
"An approach to measure specialization and community structure using phylogenetics".
Talk

2019 Mycological Society of America Annual Meeting, Minneapolis, USA.
"Using phylogenetic specificity symmetry to compare bipartite networks of lichens, endophytes and mycorrhizae".
Poster presentation

2019 43rd New Phytologist Symposium, Zurich, Switzerland.
"Using phylogenetic specificity symmetry to compare bipartite networks of lichens, endophytes and mycorrhizae".
Poster presentation

2018 11th International Mycological Congress, San Juan, Puerto Rico.
"Using a phylogenetic framework to assess the role of symbiotic specificity in shaping evolutionary and spatial patterns of associations in trimembered lichens".
Poster presentation

2017 IX Latin American Mycology Congress, Lima, Peru.
"The role of symbiotic interactions in shaping evolutionary and spatial patterns in trimembered lichens from the genus *Peltigera*".
Talk

2016 8th International Association of Lichenology Meeting, Helsinki, Finland.
"Cryptic biodiversity and symbiotic patterns of association within the trimembered section *Chloropeltigera*".
Talk

2015 V Simposio Colombiano de Biología Evolutiva.
"Phylogeography of *Amanita* spp., associated to *Quercus humboldtii* forest in Colombia".
Poster presentation

TEACHING

Spring 2020 BIO 201L Molecular Biology Lab, two sections, Duke University.

Fall 2017 Plant Pathology, one section, Universidad de los Andes.

Fall 2015 Fungal Biology, one section, Universidad de los Andes.

Fall 2014-Fall 2015 Parasitology, one section, Universidad de los Andes.

Fall 2013-Fall 2014 Cell Biology, one section, Universidad de los Andes.

ACADEMIC & SCIENTIFIC SERVICE

Manuscript reviewer
Molecular Phylogenetics & Evolution

SKILLS

Molecular biology	Nucleic acid isolation, molecular cloning, Sanger and next-generation sequencing (PacBio, Illumina).
Phylogenetics	Sequence alignment, nucleotide and amino acid substitution model fitting, bayesian and likelihood tree estimation, phylogenetic conflict assessment, phylogenetic species delimitation, divergence time estimation, community phylogenetics.
Bioinformatics	Metagenome assembly, binning and annotation; BLAST.
Programming	R and Unix (proficient), python (intermediate).
Languages	Languages - English (fluent), Spanish (native).