

# 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

### 2023

- 12. Pardo-De la Hoz, C. J.**, Magain, N., Piatkowski, B., Cornet, L., Dal Forno, M., Carbone, I., Miadlikowska, J., and Lutzoni, F. (2023). Ancient Rapid Radiation Explains Most Conflicts Among Gene Trees and Well-supported Phylogenomic Trees of Nostocalean Cyanobacteria. *Systematic Biology*, *syad008*.

### 2022

- 11. Simha, A., Pardo-De la Hoz, C. J.**, and Carley, L. N. (2022). Moving beyond the “diversity paradox”: the limitations of competition-based frameworks in understanding species diversity. *The American Naturalist*, *200(1)*, 000-000.
- 10. Pardo-De la Hoz, C. J.**, Medeiros, I. D., Gibert, J. P., Chagnon, P. L., Magain, N., Miadlikowska, J., and Lutzoni, F. (2022). 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 betaceum*) 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**

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

**AWARDS AND HONORS**

<b>2021</b>	Finalist for the Ernst Mayr Award from the Society of Systematic Biologists Virtual Evolution
<b>2020</b>	Honorable Mention for Teaching Department of Biology, Duke University.
<b>2018</b>	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

## SKILLS

- Bioinformatics** Metagenomics: experimental design, assembly, genome binning, curation and annotation. Phylogenetics: sequence alignments, likelihood and bayesian tree estimation, species delimitation
- Programming** R (proficient, 3 years of experience), bash scripting (proficient, 3 years of experience), python (basic, 1 year of experience)
- Ecology** Interaction network analyses, community structure and diversity analyses, population dynamic modeling

**Molecular biology**      Nucleic acid isolation, PCR, molecular cloning  
**Languages**              English (fluent), Spanish (native).

## ACADEMIC & SCIENTIFIC SERVICE

**Manuscript reviewer**  
Molecular Phylogenetics & Evolution

## TEACHING

**Spring 2023**              BIO556L Systematic Biology, one section, Duke University.  
**Spring 2022**              BIO 201L Molecular Biology Lab, two sections, Duke University.  
**Spring 2020**              BIO 201L Molecular Biology Lab, two sections, Duke University.  
**Fall 2017**                  Plant Pathology, Universidad de los Andes.  
**Fall 2015**                  Fungal Biology, Universidad de los Andes.  
**Fall 2014-Fall 2015**      Parasitology, Universidad de los Andes.  
**Fall 2013-Fall 2014**      Cell Biology, Universidad de los Andes.