Prof. Dr. César Marín

Date: 21 November 2026.
Date and place of birth: 7 February 1991, Popayán, Colombia.

Website: https://cesar-marin.com/ Profile on: Google Scholar – Web Of Science Profile - ORCID – ResearchGate
Founder and Lead of the South American Mycorrhizal Research Network – Vice-Chair UN FAO'S International Network on Soil Biodiversity (NETSOB) (2025 – 2027) – Deputy-Chair, UN FAO Intergovernmental Technical Panel on Soils (ITPS) (2025-2028) - Board of Directors, International Mycorrhiza Society (2022-2026) – Network Lab, Global Soil Biodiversity Observation Network (Soil BON) - Science Associate, Society for the Protection of Underground Networks (SPUN). Researcher and Board Directive member from the Frontier Science Program (2025-2027), Chilean Academy of Sciences. Editor-in-Chief: International Mycorrhiza Society Newsletter (2020-2025) – Associate Editor: Frontiers in Microbiology; Frontiers in Plant Science; npj Soil Ecology; Annals of Botany; Fungal Insights – Senior Editor: Journal of Sustainable Agriculture and Environment. – Editor: Fungal Ecology; Plants, People, Planet; IMA Fungus; Rhizosphere; FEMS Microbiology Reviews; MLS & Economics. Collaborator on Skype a Scientist – Scientific Adviser, FungiFest - Afrocolombian of the Year 2019, category Academy. Dr. Humberto Maturana Youth Symposium award, Chilean Biology Society - "We are Mycelium 2022" award, FungiFest - Carlos Luis Spegazzini Medal 2024, International Mycological Association. Commitment to Internationalization award 2024, Universidad Santo Tomás. Top 1 Mycorrhizal Research Paper (IMS Newsletter No. 17). Board of Directors – Corporación Alerce.

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Research: soil ecology; mycology; agronomy; applied ecology; biogeochemistry; mycorrhizas; multilevel selection; crops/weeds dynamics; plant propagation; science history, sociology, and philosophy.

Positions
- October 2022 – *present.* Guest researcher. Amsterdam Institute for Life and Environment, section Ecology & Evolution, Vrije Universiteit Amsterdam, the Netherlands.
- January 2022 – *present.* Full Professor. Center for Research and Innovation for Climate Change, School of Sciences, Santo Tomas University, Máfil, Chile.
- July 2021 – December 2021. Postdoc. Department of Mycorrhizal Symbioses, Institute of Botany, Czech Academy of Sciences, Průhonice, Czech Republic.
- November 2018 – June 2021. Researcher, Center of Applied Ecology and Sustainability, Pontifical Catholic University of Chile, Santiago, Chile.
- April 2019 – February 2020. Professor (*ad honorem*). Open University of Recoleta, Santiago, Chile.
- November 2018 – December 2020. Postdoctoral researcher. Institute of Agri-food, Animal and Environmental Sciences, University of O'Higgins, San Fernando, Chile, & Department of Ecosystems and Environment, Pontifical Catholic University of Chile, Santiago, Chile.

Academic formation
- March 2014 – August 2018. **Doctorate, Dr.** Doctor in Sciences mention Ecology and Evolution. Austral University of Chile. Degree: 28 August 2018. Supervisor: Prof. Dr. Roberto Godoy (Austral University of Chile). Thesis: "*Fungal biodiversity associated to bioweathering processes in a chronosequence of temperate rainforests in southern Chile*".
- March 2020 – December 2020. **Diplomat, Dipl.** Philosophy of Science, mention Philosophy of Biology. Institute of Philosophy and Complexity Sciences, Santiago, Chile.
- August 2008 – November 2012. **Bachelor of Sciences, B.Sc.** Environmental Biologist. Jorge Tadeo Lozano University. Degree: 21 Mar 2013. Supervisor: Prof. Dr. Jacob Weiner (University of Copenhagen). Co-supervisor: Prof. M.Sc. Luz Stella Fuentes Quintero (Jorge Tadeo Lozano University). Thesis: "*Density and sowing pattern effects in yield and weed suppression on three maize (Zea mays) varieties*".

Complementary formation
- 2011 – 2026. A total of **10 short courses** and **11 advanced graduate courses** in areas as botany, science outreach, genetics, evolution, soil sciences, statistics, metagenomics, geology, mycology, university teaching, policy, and systems biology, at Universities in Colombia, Chile, Germany, United Kingdom, and Brazil.

Research stays
- 2015 – 2025. **Nine research stays summing 21 months in total**. Stays in: Institute of Soil Science, University of Hannover, Hannover, Germany (3 stays in 2015, 2016, and 2017, 13 months); Plant Ecology Laboratory, University of Tartu, Tartu, Estonia (3 stays in 2015, 2022, and 2023, 5 months); Plant Biology Group, Lund University, Lund, Sweden (1 stay in 2020, 1 month); Philosophy Department, University of Oviedo, Oviedo, Spain (1 stay in 2025, 1 month); School of Earth and Sustainability, Northern Arizona University, Flagstaff, Arizona, United States (1 stay in 2025, 1 month).

Teaching experience

- 2017 - 2026. **Responsible professor.** Universidad ESPE, Quito, Ecuador: Fungal philosophy (2026-II, graduate). South American Mycorrhizal Research Network, Chile: Mycorrhizas, ecology and applications (2025-II, graduate). Areandina University Foundation, Valledupar, Colombia: Practical scientific writing (2025-II, graduate). Comahue National University, Bariloche, Argentina: Fungal philosophy (2025-II, graduate). Santo Tomas University, Máfil, Chile: Thesis Seminar I (2026-I, graduate), Scientific methodology workshop (2022-I - 2026-I, graduate), Practical Internship I (2023-I, graduate), Research Unit in Biotechnology (2025-I, undergraduate). University of Chile, Santiago, Chile: Research unit (2024-II, undergraduate). Institute of Scientific Research and High Technology Services of Panama – AIP, Ciudad de Panamá, Panamá: Introduction to bioinformatic and biostatistical methods for the analysis of fungal communities (2023-II, graduate). Austral University of Chile, Valdivia, Chile: Research Seminar (2023-I, 2024-I, 2024-II, undergraduate). University of Concepción, Chillán, Chile: Soil biodiversity and ecosystem functions (2022-I, graduate). University of Talca, Talca, Chile: Practice I (2021-II, undergraduate). University of O'Higgins, Rancagua, Chile: Edaphology (2019-II, undergraduate). Open University of Recoleta, Santiago, Chile: Soils, Ecosystems, and Climate Change (2019-I - 2019-II, undergraduate). Evangelical College of Goianésia, Goianésia, Brazil: Soil Fungal Ecology course (2017-II, graduate). Corporation for Biological Research, Medellín, Colombia: Metagenomics course (2017-I, graduate).
- 2016 – 2026. **Collaborator/Invited professor.** Harvard University, Cambridge, United States: Regenerative Economics (2026, graduate). University of Western Ontario, London, Canada: Biodiversity Science (2026, undergraduate). Peruvian University Cayetano Heredia, Peru: General and Applied Mycology (2024-II - 2025-II, undergraduate). Areandina University Foundation, Valledupar, Colombia: Seminar III (2023-I – 2025-I, graduate). University of Oviedo, Oviedo, Spain: Current topics in natural philosophy (2023-II, undergraduate). Jorge Tadeo Lozano University, Bogotá, Colombia: Environmental dimension and problems (2022-II, graduate). University of Concepción, Concepción, Chile: Integrated agroecosystems (2022-II – 2024-I, graduate). Santo Tomas University, Máfil, Chile: Ecological and Environmental Principles Applied in Biotechnology (2025-I – 2026-I, undergraduate). Ecology basics (2022-I, graduate), Fundamentals of Conservation Ecology (2023-I – 2024-I, graduate), Evolution Fundamentals (2023-II, graduate), Environmental Watchdogs (2024-I, undergraduate), Advanced Topics in Conservation Ecology (2025-I – 2026-I, graduate). National University of Río Negro, Bariloche, Argentina: Agricultural and Industrial Microbiology (2020-II, undergraduate). University of the Republic, Montevideo, Uruguay: Microbiological indicators of soil health/quality (2020-II, 2022-II, graduate). Pontifical Catholic University of Chile, Santiago, Chile: Soil and Fertility (2019-II, undergraduate), Forest soil and hydrology (2019-I, 2020-I, undergraduate). Austral University of Chile, Valdivia, Chile: Fundamentals of Social Communication of Science (2025-I, undergraduate), Organic Evolution (2023-II – 2026-II, undergraduate), Forest Ecology (2017-II, 2019-II, 2021-II, graduate), Biodiversity (2016-I – 2019-I, 2022-I – 2024-I, undergraduate), Molecular analysis of terrestrial and freshwater cyanobacterial/algal communities in pristine temperate rainforests, Southern Chile (2019-I, graduate), Professional practice (2017-I, undergraduate), Molecular community ecology of arbuscular mycorrhizal fungi (2016-I, graduate), Research seminary (2016-I, undergraduate). University of O'Higgins, Rancagua, Chile: Edaphology (2019-I, undergraduate), Introduction to Agronomy I (2019-I; undergraduate). La Frontera University, Temuco, Chile: Natural resources management (2017-I, graduate).
- 2014 – 2016. **Teaching assistant.** University of Hannover, Hannover, Germany: Soil interface processes (2016-II). Austral University of Chile, Valdivia, Chile: Organic evolution (2014-II - 2015-I), Basic botany (2014-I).

Articles under review

- Hongsanan, S., Hyde, K.D., Khuna, S., McKenzie, E.H.C., Goto, B.T., Wijayawardene, N.N., …, Marín, C., …, Zucconi, L. 2026. The 2026 Outline of Fungi and fungus-like taxa. *Mycosphere*.
- Hagh-Doust, N., Khalil, K., Mikryukov, V., Prins, V., Põlme, S., Anslan, S., …, **Marín, C.**, …, Tedersoo, L. 2026. FunLeaf: A global dataset of foliar fungi. *Fungal Diversity*.
- Sulbaran-Bracho, Y., Aponte, H., **Marín, C.**, Maldonado, J., Rojas, C. 2026. Fire-affected soils evidence loss of fungal diversity, key functional guilds, and interdomain network connectivity in Mediterranean sclerophyllous forests. *Journal of Soil Science and Plant Nutrition*.
- O'Brien, A., **Marín, C.**, Parada, P. 2026. Identified, absent or unresolved: error-controlled identification of fungal ITS2 sequences against a reference database. *IMA Fungus*.
- Fischer, A.C., Nieves Delgado, A., **Marín, C.**, Uchôa, R., Wagemann, S., …, Baedke, J. 2026. Diversity across the sciences: From vague concept to interdisciplinary opportunity. *BioScience*.
- O'Brien, A., Gardette, A., **Marín, C.**, Parada, P. 2026. Classical baselines outperform released deep-learning ITS classifiers, which collapse on ITS2 where predictions follow the flanking regions. *Briefings in Bioinformatics*.
- Peredo Albornoz, G., Segura Ayarza, J., Prado Mendoza, C., Kimishima, M.H., **Marín, C.**, Mendez, M., Jordán Arandia, O.E., Bartolo Castillo, C. 2026. Between Buddhism and Andean Indigenous Relationality: Tracing Hidden Pathways in Biological Conservation. *Frontiers in Conservation Science*.
- Black, A., Olimi, E., Peredo Albornoz, G., **Marín, C.** 2026. Reimaging microbial stewardship: centering Indigenous relationality for global health and environmental solutions. *FEMS Microbes*.
- Vallejos-Torres, G., Quispe-Apaza, C.S., Chuchon-Remon, R., Hernández-Amasifuen, A.D., Guerreo-Abad, J.C., Ponce, V., **Marín, C.** 2026. Altitude and soil texture drive fungal community assembly in secondary Amazonian forests: insights from *Byrsonima crassifolia* ecosystems in Peru. *Symbiosis*.

Publications numbers

Web of Science/Scopus peer-reviewed articles: 68; other-indexation articles: 34 (15 peer-reviewed) **– 84 peer-reviewed articles (59 first/senior/corresponding author)**; corrections: 1; active preprints: 3 (*published preprints*: 10); Books: 1; book chapters: 6; Abstracts books (Ed): 2; tech. reports: 3; proceedings: 5; doctoral thesis: 1; datasets: 2.

→First/senior/corresponding author: 89/126. →4750 Google Scholar citations (h-index: 25; 10-index: 49). →Outreach articles: 79.

Web of Science/Scopus indexed articles (peer-reviewed)

- Peredo Albornoz, G., **Marín, C.**, Prado Mendoza, C. 2026. Harmonize the Womb: Preparing Conservation for Pachakuti from Andean Indigenous Knowledge and Consilience. *The Monist* onag028. DOI: https://doi.org/10.1093/monist/onag028
- Mikryukov, V., Dulia, O., Abarenkov, K., Anslan, S., Hagh-Doust, N., Prins, N., …, Marín, C., …, Tedersoo, L. 2026. Global dataset of soil eukaryotic communities created with a uniform protocol and long read sequencing. *Scientific Data* 13: 1016. DOI: https://doi.org/10.1038/s41597-026-07315-y
- Moreno, M.L., Pérez-Roig, C., Chiappero, M.F., **Marín, C.**, Brown, G., Bedano, J.C., Videla, M. 2026. Soil fauna and ecosystem functions: current knowledge and future perspectives in Latin America. *Pedobiologia* 115: 151139. DOI: https://doi.org/10.1016/j.pedobi.2026.151139
- Truong, C., Corrales, A., Manley, B., Van Nuland, M., Stewart, J.D., Urrutia-Jalabert, R., Godoy, R., Sheldrake, M., Furci, G., Kiers, T.E., **Marín, C.** 2026. Large-diameter trees contribute disproportionally to fungal diversity in a coniferous forest with one of oldest living trees on Earth. *Biodiversity and Conservation* 35: 94. DOI: https://doi.org/10.1007/s10531-026-03277-0
- Vallejos-Torres, G., Chuchon, R.J., Gaona-Jimenez, N., **Marín, C.**, Cruz, J., Solórzano, R. 2026. Geospatial distribution of cadmium in soil profiles of cacao (*Theobroma cacao* L.) plantations in the Peruvian Amazon basin. *Frontiers in Environmental Science* 14: 1710127. DOI: https://doi.org/10.3389/fenvs.2026.1710127
- **Marín, C.**, Clark, A.B., Philson, C.S., Eldakar, O.T., Wade, M.J. 2026. Abundant empirical evidence of multilevel selection revealed by a bibliometric review. *Frontiers in Ecology and Evolution* 14: 1752597. DOI: https://doi.org/10.3389/fevo.2026.1752597
- Turba, R., Thoré, E.S.J., Bertram, M.G., Bridg, H., Sabet, S.S., Gamboa, M., Ríos-Orjuela, J.C., Takola, E., Capa Salinas, J., Sampaio Franco, A.C., **Marín, C.** 2026. Global North-South science inequalities due to language and funding barriers. *Peer Community Journal* 6: 9. DOI: https://doi.org/10.24072/pcjournal.677
- Lozano, A., Gaona-Jimenez, N., Alvarado, J.W., García Gonzáles, P., Alva Arévalo, A., Ordoñez, L., Saavedra Ramírez, J., Tuesta-Hidalgo, J.C., Vilela, L., Tuesta-Hidalgo, O.A., Baselly-Villanueva, J.R., Chuchon-Remon, R., Rengifo-Del Águila, S., **Marín, C.**, Vallejos-Torres, G. 2026. Dominance of large trees in carbon storage of Peruvian Amazon forest. *Frontiers in Forests and Global Change* 8:1711078. DOI: https://doi.org/10.3389/ffgc.2025.1711078
- Vallejos-Torres, G., Gaona-Jimenez, N., Lozano-Chung, A., Saavedra, H., Alva Arévalo, A., Saavedra-Ramírez, J., Tuesta-Hidalgo, J., Tuesta-Hidalgo, O.A., Valdez-Andía, M.J., Reategui, K., Macedo-Córdova, W., Baselly-Villanueva, J.R., **Marín, C.**, Vento, B. 2026. Impact of forest degradation on soil properties in the Peruvian Amazon. *Carbon Balance and Management* 21: 16. DOI: https://doi.org/10.1186/s13021-025-00391-4
- García-Carmona, M., Sulbaran-Bracho, Y., **Marín, C.**, Maldonado, J.E., García-Orenes, F., Rojas, C. 2026. Organic amendments as a tool to restore soil microbial diversity after wildfires in native Mediterranean forests. *Journal of Environmental Management* 397: 128261. DOI: https://doi.org/10.1016/j.jenvman.2025.128261
- **Marín, C.**, Barreto, C., Singh, B.K., de Ruiter, P.C., Brown, G.G., Battigelli, J., …, Lindo, Z. 2026. Open Letter: A global call to strengthen national soil biodiversity action through coordination and harmonization. *Plants, People, Planet* 8(1): 8-13. DOI: https://doi.org/10.1002/ppp3.70121
- Godoy, R., **Marín, C.** 2025. Nicolás Pacheco: guardaparque con una fructífera labor naturalista por más de medio siglo. *Gayana Botánica* 82(2): 133-135.
- **Marín, C.** 2025. Alerce or lawal (*Fitzroya cupressoides*). *Nature Ecology & Evolution* 9: 2426. DOI: https://doi.org/10.1038/s41559-025-02901-6
- Van Nuland, M.E., Averill, C., Stewart, J.D., Prylutskyi, O., Corrales, A., van Galen, L.G., Manley, B.F., Qin, C., Lauber, T., Mikryukov, V., Dulia, O., Furci, G., **Marín, C.**, Sheldrake, M., Weedon, J., Peay, K.G., Větrovský, T., Kohout, P., Baldrian, P., Tedersoo, L., West, S.A., Crowther, T.W., Kiers, T., SPUN Mapping Consortium, van den Hoogen, J. 2025. Global hotspots of mycorrhizal fungal richness are poorly protected. *Nature* 645(8080): 414-422. DOI: https://doi.org/10.1038/s41586-025-09277-4
- Parise, A.G., **Marín, C.**, Tamagnini, F., Tibbett, M., Pickles, B.J. 2025. How mycorrhizal fungi could extend plant cognitive processes. *Symbiosis* 96(2): 105-120. DOI: https://doi.org/10.1007/s13199-025-01065-y
- Johnson, N.C., **Marín, C.** 2025. Functional team selection: a framework for local adaptation in plants and their belowground microbiomes. *The ISME Journal* 19(1): wraf137. DOI: https://doi.org/10.1093/ismejo/wraf137
- **Marín, C.**, Wade, M.J. 2025. Bring back the phenotype. *New Phytologist* 246(6): 2440-2445. DOI: https://doi.org/10.1111/nph.70138
- Sarneel, J.M., Atkins, J.W., Augusto, L., Barel, J.M., Duddigan, S., Fanin, N., Hefting, M.M., Lembrechts, J.J., **Marín, C.**, McDaniel, M.D., Montagnani, L., Parkhurst, T., Petit Bon, M., Sofo, A., Keuskamp, J.A. 2025. The assumptions of the Tea Bag Index and their implications; A reply to Mori 2025. *Ecology Letters* 28(4): e70117. DOI: https://doi.org/10.1111/ele.70117
- **Marín, C.,** Dittrich, F., Vasar, M., Gaínza-Cortés, F., Silva-Flores, P., Aguilera, P. 2025. Vineyard maturity increases arbuscular mycorrhizal and decreases plant pathogen fungal abundance across a 1000 km Chilean gradient. *Plants, People, Planet* 7(4): 987-997. DOI: https://doi.org/10.1002/ppp3.10598

- Vallejos-Torres, G., Gaona Jimenez, N., Ordoñez-Sánchez, L., García-Gonzales, P., Mendoza-Caballero, W., Saavedra-Ramírez, J., Macedo-Córdova, W., Reátegui, K., Baselly-Villanueva, J.R., **Marín, C.** 2024. Optimization of a protocol for vegetative propagation of mahogany (*Swietenia macrophylla*) in microtunnels in the Peruvian Amazon region. *Bosque* 45(3): 485-495. DOI: https://doi.org/10.4067/S0717-92002024000300485
- Vallejos-Torres, G., Lozano-Chung, A., Ordoñez-Sánchez, L., García-Gonzales, P., Quinteros, A., Gaona-Jimenez, N., Mendoza-Caballero, W., Macedo-Córdova, W., Saavedra-Ramirez, J., Baselly-Villanueva, J.R., **Marín, C.** 2024. Soil organic carbon vertical variation in dry forests of the Peruvian Amazon. *Forest Systems* 33(3): 20896. DOI: https://doi.org/10.5424/fs/2024333-20896
- Vallejos-Torres, G., Gaona-Jimenez, N., Pichis-García, R., Ordoñez, L., García-Gonzales, P., Quinteros, A., Lozano, A., Saavedra-Ramírez, J., Tuesta-Hidalgo, J.C., Reategui, K., Macedo-Córdova, W., Baselly Villanueva, J.R., **Marín, C.** 2024. Carbon reserves in coffee agroforestry in the Peruvian Amazon. *Frontiers in Plant Science* 15: 1410418. DOI: https://doi.org/10.3389/fpls.2024.1410418
- Aguilera, P., Silva-Flores, P., Gaínza-Cortés, F., Pastenes, C., Castillo, C., Borie, F., Jorquera-Fontena, E., Inostroza-Blancheteau, C., Retamal, J., **Marín, C.** 2024. Drivers of arbuscular mycorrhizal fungal diversity across 1,000 km of Chilean vineyards. *Journal of Soil Science and Plant Nutrition* 24(2): 3675–3686. DOI: https://doi.org/10.1007/s42729-024-01787-w
- Sarneel, J.M., Hefting, M.M., Sandén, T., van den Hoogen, J., Routh, D., Adhikari, B.S., ..., **Marín, C.**, ..., Keuskamp, J.A. 2024. Reading tea leaves worldwide: decoupled drivers of initial litter mass-loss rate and stabilization. *Ecology Letters* 27(5): e14415. DOI: https://doi.org/10.1111/ele.14415
- **Marín, C.** 2024. Three types of units of selection. *Evolution* 78(3): 579-586. DOI: https://doi.org/10.1093/evolut/qpad234
- Godoy, R., Acuña, L., Silva-Flores, P., Aguilera, P., **Marín, C.** 2023. Native arbuscular mycorrhizal fungi improved *Araucaria araucana* greenhouse/plantation growth over single and mixed commercial inoculum. *Journal of Soil Science and Plant Nutrition* 23(4): 6459-6468. DOI: https://doi.org/10.1007/s42729-023-01501-2
- Mikryukov, V., Dulya, O., Zizka, A., Bahram, M., Hagh-Doust, N., Anslan, S., ..., **Marín, C.**, ..., Tedersoo, L. 2023. Connecting the multiple dimensions of global soil fungal diversity. *Science Advances* 9(8): eadj8016. DOI: https://doi.org/10.1126/sciadv.adj8016
- Vallejos-Torres, G., Gaona-Jimenez, N., Ordoñez-Sánchez, L., Lozano, C., Alva Arevalo, A., Lozano, A., Mendoza, W., Paredes, C., Saavedra, J., Tuanama, J., **Marín, C.** 2023. Effects of arbuscular mycorrhizal fungi, poultry manure compost, and cadmium on plant growth and nutrient absorption of *Oryza sativa*. *Chilean Journal of Agricultural Research* 83(6): 656-665. DOI: https://doi.org/10.4067/S0718-58392023000600656
- **Marín, C.**, Bueno, C.G., Wang, J., Kokkoris, V. 2023. Editorial: Biodiversity and Ecosystem-level Function of the Rhizosphere. Frontiers in Plant Science 14: 1278662. DOI: https://doi.org/10.3389/fpls.2023.1278662
- Vallejos-Torres, G., Gaona-Jimenez, N., Lozano, A., Paredes, C.I., Lozano, C.M., Saavedra-Ramírez, J., Arévalo, L.A., Reategui, K., Mendoza, W., Baselly-Villanueva, J.R., **Marín, C.** 2023. Soil Organic Carbon estimations in coffee plantations and secondary forest in the Peruvian Amazon. *Chilean Journal of Agricultural Research* 83(5): 553-564. DOI: https://doi.org/10.4067/S0718-58392023000500553 **Journal cover.**
- Vallejos-Torres, G., Gaona-Jimenez, N., Alva Arévalo-Arévalo, A., Paredes, C.I., Lozano, A., Saavedra, J., Tuesta, J.C., Tuesta, O.A., Arévalo, L.A., Mendoza-Caballero, W., **Marín, C.** 2023. Cadmium uptake and mycorrhization by cacao clones in agroforestry and monoculture systems of Peruvian Amazon. *Bioagro* 35(3): 237-246. DOI: https://doi.org/10.51372/bioagro353.7
- Johnson, N.C., **Marín, C.** 2023. Microbial villages in the geography of arbuscular mycorrhizal symbioses. *New Phytologist* 238(2): 461-463. DOI: https://doi.org/10.1111/nph.18803
- **Marín, C.**, Godoy, R., Boy, J., Öpik, M. 2023. Geological history and forest mycorrhizal dominance effects on soil fungal diversity in Chilean temperate rainforests. *Journal of Soil Science and Plant Nutrition* 23(1): 734-745. DOI: https://doi.org/10.1007/s42729-022-01078-2
- Vallejos-Torres, G., Torres, S.C., Gaona-Jimenez, N., Saavedra, J., Tuesta, J.C., Tuesta, O.A., Becerra, A.G., **Marín, C.**, Alguacil, M.D.M. 2022. The combined effect of arbuscular mycorrhizal fungi and compost improves growth and soil parameters and decreases cadmium absorption in cacao (*Theobroma cacao* L.) plants. *Journal of Soil Science and Plant Nutrition* 22(4): 5174-5182. DOI: https://doi.org/10.1007/s42729-022-00992-9
- Arcila-Galvis, J.E., **Marín, C.**, Ortega-Cuadros, M., Muñoz-Pérez, J.M., Arias, T. 2022. A metagenomic assessment of soil microbial communities in a coal mine spoil- dump under reclaimed vegetation in La Guajira Colombia. *Journal of Soil Science and Plant Nutrition* 22(4): 4377-4390. DOI: https://doi.org/10.1007/s42729-022-01036-y
- Tedersoo, L., Mikryukov, V., Zizka, A., Bahram, M., Hagh-Doust, N., Anslan, S., ..., **Marín, C.**, ..., Abarenkov, K. 2022. Global patterns in endemicity and vulnerability of soil fungi. *Global Change Biology* 28(22): 6696-6710. DOI: https://doi.org/10.1111/gcb.16398
- **Marín, C.**, Rubio, J., Godoy, R. 2022. Chilean blind spots in soil biodiversity and ecosystem function research. *Austral Ecology* 47(7): 1372-1381. DOI: https://doi.org/10.1111/aec.13232
- Vallejos-Torres, G., Tenorio-Cercado, M.A., Gaona-Jimenez, N., Corazon-Guivin, M.A., Ormeño-Luna, J., Paredes, C.I., Saavedra, J., Tuesta, J.C., Tuesta, O.A., Alguacil, M.M., Becerra, A.G., **Marín, C.** 2022. Multiplicación masiva de hongos micorrícicos arbusculares aislados de suelos cultivados con cacao. *Bioagro* 34(3): 265-276. DOI: https://doi.org/10.51372/bioagro343.6
- Corazon-Guivin, M.A., Vallejos-Torres, G., Vallejos-Tapullima, A., Tenorio-Cercado, M.A., Mendoza Caballero, W., **Marín, C.**, Santos, V.M., da Silva, G.A., Oehl, F. 2022. *Rhizoglomus cacao*, a new fungus of the Glomeraceae from the rhizosphere of

Theobroma cacao in Peru, with an updated identification key for all species attributed to *Rhizoglomus*. *Nova Hedwigia* 115(1-2): 99-115. DOI: https://doi.org/10.1127/nova_hedwigia/2022/0698
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Science outreach articles
→ Since 2013, I have published 79 outreach articles, blog posts, newspaper columns, and interviews, all available here: https://cesar-marin.com/outreach/

Books editing (Ed.)
- Lugo, M.A., Peña-Venegas, C.P., **Marín, C.** (Eds.). 2025. *Studies on mycorrhizas in South America*. Bogotá, Colombia: Instituto Amazónico de Investigaciones Científicas SINCHI & South American Mycorrhizal Research Network. 128 p. ISBN: 978-958-5427-52-5.
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- 2026 – present. Associate Editor, *Fungal Insights* (upcoming).
- 2026 – present. Editorial Board, *FEMS Microbiology Reviews*.
- 2026 – present. Associate Editor, *Annals of Botany*.

- 2026 – present. Senior Editor, *Journal of Sustainable Agriculture and Environment*.
- 2026 – present. Editorial Board, *Rhisozphere*.
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- 2025 – present. Associate Editor, *npj Soil Ecology*.
- 2025 – present. Associate Editor, *Frontiers in Microbiology*.
- 2024 – present. Editorial Board (Subject Editor), *IMA Fungus*.
- 2024 – present. Editorial Board (Advisor), *Plants, People, Planet*.
- 2023 – present. Editorial Board, *Fungal Ecology*.
- 2023 – 2025. Editorial Board, Microbial Symbioses (*Frontiers in: Microbiology, Marine Science*).
- 2022 – 2023. Editorial Board, Evolutionary and Genomic Microbiology section (*Frontiers in: Microbiology, Genetics, and Ecology and Evolution*).
- 2022 – 2023. *Frontiers in Plant Science*, Research Topic Editor: Biodiversity and Ecosystem-level Function of the Rhizosphere. https://www.frontiersin.org/research-topics/38281/biodiversity-and-ecosystem-level-function-of-the-rhizosphere
- 2021 – 2026. Editorial Board, *Journal of Sustainable Agriculture and Environment*.
- 2020 – 2025. Editor-in-Chief, *International Mycorrhiza Society Newsletter*. ISSN: 2563-1497. https://mycorrhizas.org/category/quarterly-newsletter/
- 2019. *Revista Digital Fulica*, Edición No. 10: El alucinante universo de los hongos. ISSN 2382-4743. Online.
- 2019. *Científic@ - Multidisciplinary Journal* 6 (1), special issue Micro-organismos promotores do crescimento de plantas: mecanismos, simbiose, biomas e avanços na pesquisa. ISSN 2358-260X.
- 2017. *Journal of Soil Science and Plant Nutrition* 17 (4), special issue Microbial Interactions in the plant-soil continuum: Research results presented at the Workshop “Mycorrhizal Symbiosis in the Southern Cone of South America”.

Articles edited (n=139)
IMS Newsletter (60), Frontiers in Plant Science (20), Fungal Ecology (11), IMA Fungus (6), Frontiers in Microbiology (9), Frontiers in Forests and Global Change (1), Journal of Sustainable Agriculture and Environment (10), npj Soil Ecology (8), Annals of Botany (13), FEMS Microbiology Reviews (1).

Reviewer for journals (n=328)
BioScience (2), Journal of Soil Science and Plant Nutrition (18), Microbiome (4), Applied Soil Ecology (28), Fungal Ecology (2), Plant and Soil (7), Symbiosis (2), MycoKeys (1), Current Research Journal of Social Sciences and Humanities (1), Antonie van Leeuwenhoek (2), PeerJ (2), Forest Ecology and Management (3), New Phytologist (10), Biodiversity Data Journal (1), Data (3), Frontiers in Microbiology (23), Phyotaxa (1), Land (18), Ecosistemas (2), Biocatalysis and Agricultural Biotechnology (1), Bosque (6), PLOS One (2), Zygon: Journal of Religion and Science (2), Chiang Mai Journal of Science (1), Sensors (1), Frontiers in Plant Science (6), Mycorrhiza (5), Journal of the Science of Food and Agriculture (2), International Journal of Environmental Research and Public Health (4), Microbial Ecology (3), Journal of Ecology (8), Sustainability (6), Remote Sensing (3), Journal of Forestry Research (2), Atmosphere (2), Agriculture (3), Diversity (1), Basic and Applied Ecology (1), Computational and Structural Biotechnology Journal (2), Ecology and Evolution (1), Agro Sur (1), Sains Tanah – Journal of Soil Science and Agroclimatology (3), Venoms and Toxins (1), Energies (1), Journal of Sustainable Agriculture and Environment (8), Processes (1), Frontiers in Ecology and Evolution (10), Agronomy (2), Journal of Archaeological Science (2), Journal of Marine Science and Engineering (2), Revista Agronomía Mesoamericana (3), Applied Sciences (1), Acta Botanica Mexicana (1), Annals of Microbiology (9), Biology and Fertility of Soils (1), Plants, People, Planet (9), Cedamaz Investigaciones (1), Nature Ecology & Evolution (2), Rhizosphere (7), Environmental Science and Pollution Research (4), Journal of Ethnobiology and Ethnomedicine (1), Journal of Environmental Quality (1), Austral Ecology (1), Phytotaxa (1), Plant Ecology (1), Soil (2), iMeta (1), Gayana Botanica (2) Folia Geobotanica (2), Discover Environment (2), International Journal of Environmental Research (3), South African Journal of Botany (1), Journal of Applied Ecology (2), Environment and Natural Resources Journal (1), Ecotoxicology and Environmental Safety (1), Heliyon (4), Functional Ecology (1), Agronomy for Sustainable Development (2), Methods in Ecology and Evolution (2), Oecologia (2), Biodiversitas Journal of Biological Diversity (1), Next Research (1), Folia Amazonica (1), FEMS Microbiology Letters (1), Microbiology Spectrum (1), Molecular Ecology (1), IMA Fungus (1), Acta Oecologica (1), Pedobiologia (1), Total Environment Microbiology (1), International Journal of Environmental Research (1), Frontiers in Soil Science (1), Mycological Progress (1), Nature Sustainability (1), Ecology Letters (1), Current Biology (1), Geoderma Regional (1), Journal of Experimental Botany (1), Agroforestry Systems (1), Global Ecology and Conservation (1), Archives of Agronomy and Soil Science (1), Frontiers in Environmental Science (1), Trends in Microbiology (1), Annals of Botany (2), Cambridge Prisms: Drylands (2), Botany (1), European Journal of Soil Biology (1), Studies in History and Philosophy of Science (1), Frontiers in Research Metrics and Analytics (1), PCI Ecology (1), Plant, Cell & Environment (1), Trends Open (1), South African Journal of Science (1).

Review of books and books chapters
- Valqui Zuta, E. 2019. Evolución de las especies por cooperación natural. Editorial Académica Española. 267 pp.
- Gonzalez, M. A., Arenas-Castro, H. (Eds.). 2017. Recolección de tejidos biológicos para análisis genéticos- Instituto de Investigación de Recursos Biológicos Alexander von Humboldt. Bogotá, D.C., Colombia, 33 pp.

Projects reviewer

FONDECYT Initiation 2022 (1), Universidad del Rosario Small Grants 2022 (1), FONDECYT Regular 2023 (1), SPUN Underground Explorers Program (5), Research stays ProCiencia Peru 2023 (4), Bachelor/graduate thesis ProCiencia Peru 2023 (4), Postodcs ProCiencia Peru 2023 (1), Universidad de Antioquia Small Grants 2023 (2), ANID Postdoctoral Grants 2025 (3), ARIS Public Call Slovenia 2024 (5), FONDECYT Initiation 2025 (3), FONDECYT Regular 2025 (6), ANID' 2025 Technological Research Competition (2), FONDECYT Initiation 2026 (3), ARIS Public Call Slovenia 2025 (3), FONDECYT Regular 2026 (5), Fondo de Investigación del Bosque Nativo – CONAF (3), ARIS Public Call Slovenia 2026 (2), FONDECYT Initiation 2027 (2), Avanza UC 2027 Pontifical Catholic University of Chile (4), FONDECYT Regular 2027 (5).

Scientific conferences participation

- 2012 – 2026. 77 conference presentations (15 as keynote speaker, 62 as regular presenter) on scientific conferences on: Colombia, United States, Chile, Brazil, Germany, Argentina, United Kingdom, Czech Republic, Peru, Puerto Rico, Mexico, Estonia, China, Panama, Canada, Australia, New Zealand, and Ecuador.

→ Keynote talks:

- **Marín, C.** 2026. De esporas a holobiontes: ¿cómo abordar la biodiversidad y funcionalidad micorrízica?. III Congreso Colombiano de Micología, Universidad Industrial de Santander, Bucaramanga, Colombia.
- **Marín, C.** 2026. From Genes to Gaia: how natural selection shapes One Health at every level. XIII Congreso Interdisciplinar da Faculdade Evangélica de Goianésia, Plenário Aleixo Luz Vinhal, Goianésia, Brazil.
- **Marín, C.** 2026. Functional team selection as a framework for local adaptation in plants and their belowground microbiomes. Workshop Interacciones planta-microorganismo-ambiente: de los mecanismos a los ecosistemas, Universidad Adolfo Ibáñez, Santiago, Chile.
- **Marín, C.** 2026. Co-constructing mycorrhizal ecology in the Atacama Desert through Lickanantay and Western scientific perspectives. 20th International Symposium on Microbial Ecology (ISME20), New Zealand International Convention Centre, Auckland, New Zealand.
- **Marín, C.** 2026. Disambiguating the assumptions about cooperation, natural selection, and adaptation in mycorrhizal functioning models. 13th International Conference on Mycorrhiza (ICOM13), Cairns Convention Centre, Cairns, Australia.
- **Marín, C.** 2026. Using complexity science and philosophy to assess mycorrhizal cooperation. 4th Global Soil Biodiversity Conference. Victoria Conference Centre, Victoria, Canada.
- **Marín, C.** 2026. Abundant empirical evidence of multilevel selection revealed by a bibliometric review. 2nd Interdisciplinary Workshop on Ecological Sustainability Modeling. Universidad Católica del Maule, Talca, Chile.
- **Marín, C.** 2025. Biodiversidad y servicios ecosistémicos del suelo chileno: estado del arte y amenazas. XXI Congreso Latinoamericano de Buiatría, Hotel Enjoy, Puerto Varas, Chile.
- **Marín, C.** 2025. Functional team selection: a framework for local adaptation in plants and their belowground microbiomes. 4° Congreso Latinoamericano de Ecología Microbiana, Universidad de Yucatán, Mérida, México.
- **Marín, C.** 2023. Southern and global mycorrhizal collectives. III International Symposium of the Mycorrhizal Symbiosis in South America, SINCHI Institute, Leticia, Amazonas, Colombia.
- **Marín, C.** 2022. Trabajo en red para integrar la biodiversidad edáfica y sus servicios ecosistémicos. II Workshop of Young Researchers in Agronomic Sciences, Faculty of Agronomy, University of Concepción, Termas de Catillo, Chile.
- **Marín, C.**, Rubio, J., Godoy, R. 2021. Puntos ciegos de información en biodiversidad y funciones ecosistémicas de suelos chilenos. Dr. Humberto Maturana Youth Symposium, LXIV Reunión Anual Sociedad de Biología de Chile-XXVII Reunión Anual Sociedad de Ecología de Chile-XXXII Reunión Anual Sociedad de Botánica de Chile. LXIV Annual Meeting of the Chilean Biology Society-XXVII Annual Meeting of the Chilean Ecology Society-XXXII Annual Meeting of the Chilean Botany Society. Online.
- **Marín, C.** 2021. Trabajo en red para integrar la biodiversidad fúngica y sus servicios ecosistémicos. II Chilean Meeting of Mycology. Online.
- **Marín, C.** 2021. Integrando e interconectando la investigación de biodiversidad y servicios ecosistémicos del suelo. Agronomy Week, Faculty of Agrarian Sciences, National University of San Martín, Peru. Online.
- **Marín, C.** 2017. Plant health: arbuscular mycorrhizal fungi used for cereals improvement. IV Interdisciplinary Congress of Faculdade Evangélica de Goianésia, Plenário Aleixo Luz Vinhal, Goianésia, Brazil.

Invited conferences

- 2014 – 2026. 163 invited conferences (99 on outreach) on: Chile, Colombia, Estonia, United States, Puerto Rico, Brazil, Germany, Czech Republic, Burkina Faso, Switzerland, Australia, Ecuador.

Scholarships, benefits and prices (excluding projects)

- 2014 – 2022. 30 economic benefits summing USD$130,819 from the Government, Universities and Organizations of: Colombia, Chile, United States.

Research projects

- June 2026 – June 2027. SPUN Underground Explorer project: "Climate and land-use drivers of arbuscular mycorrhizal fungal diversity in the under-sampled Indo-Gangetic plains agroecosystem". **Collaborator**, Universidad Santo Tomás. USD$10,000.

- January 2025 – December 2026. Mariana Valoy (PI): “Multilevel Selection and its implications as an agro-evolutionary management strategy in quinoa crops in Tucumán, Argentina”. Research Projects No. CUP BI-0035-1 – Fundación Miguel Lillo. **Co-Researcher**, Universidad Santo Tomás. USD$2,000.
- February 2026 – October 2026. Yessica Lorena Perdomo (PI): “Mycorrhizal Interactions - Geochemistry: Impact on Nutrient Cycling and Soil Health”. Applied Research Projects No. CV2026-GIMA-V-13712 – Fundación Universitaria del Área Andina. **Co-Researcher**, Universidad Santo Tomás. USD$11,920.
- February 2026 – February 2028. SOCBIO-MAP. European Space Agency. **Scientific Advisor**, Universidad Santo Tomás. USD$1,161,280.
- March 2025 – March 2029. Scientific and Technological Equipment Competition (FONDEQUIP MAYOR) No. EQY240004: “Southern BioImaging Platform SBIP”. **Co-Researcher**, Universidad Santo Tomás. USD$964,418.
- February 2025 – October 2025. Yessica Lorena Perdomo (PI): “Effect of the biochar-mycorrhiza mixture on coffee crops as a social and sustainable strategy in the rural area of the municipality of Valledupar”. Applied Research Projects No. CV2025-GIMA-PD-VA-13540 – Fundación Universitaria del Área Andina. **Co-Researcher**, Universidad Santo Tomás. USD$7,800.
- June 2024 – August 2025. U.S. National Science Foundation award No. 2412561: “MICROBENet-Net: Multi-Institute Collaborative Research on BElowground plant-microbial interactions Network of Networks”. **Member of the Steering Committee**, Universidad Santo Tomás. USD$1,500,000.
- June 2024 – June 2025. SPUN Underground Explorer project: “Molecular identification of arbuscular mycorrhizal fungi associated to *Byrsonima crassifolia* (L.) Kunth in San Martín, Peru”. **Collaborator**, Universidad Santo Tomás. USD$10,000.
- April 2024 – March 2028. Fondecyt Regular Project 1240500: “Towards a comprehensive understanding of the physiological traits and environmental drivers associated with drought-induced dieback in Nothofagus species in Chile”. **Co-Researcher**, Universidad Santo Tomás. USD$280,246.
- April 2024 – March 2028. Fondecyt Regular Project 1240186: “Harnessing sympatric mycorrhizal microbiomes for conservation of *Fitzroya cupressoides*, an endangered native conifer in Chile”. **Principal Investigator,** Universidad Santo Tomás. USD$280,246.
- February 2024 – October 2024. Yessica Lorena Perdomo (PI): “Effect of mixtures of biochar, mycorrhizal-forming fungi and biogestates as plant growth stimulants”. Applied Research Projects – Fundación Universitaria del Área Andina. **International Researcher: Marín, C.**
- July 2023 – April 2024. Teaching Research Projects César Vallejo University 2023 No. P-2023-111 (Dr. Geomar Vallejos-Torres, César Vallejo University): Potential of climatic factors and glomalin in organic and inorganic carbon reserves in coffee soils in San Martín. **Co-Researcher,** Universidad Santo Tomás. USD$10,240.
- April 2023 – October 2024. I Interuniversity Competition for Initiation in Associative Research No. IUP22-20 (Dr. Carlos Maldonado, Umayor): System for monitoring, detection and prediction of areas susceptible to forest fires through artificial intelligence. **Co-Researcher**, Universidad Santo Tomás. USD$24,515.
- March 2023 – March 2026. Fondecyt Initiation Project No. 11230870 (Dr. Patricia Silva-Flores, UCM): Understanding the variation in dual-mycorrhizal plants associations and their mycorrhizal status along large-scale latitudinal and altitudinal gradients. **Collaborator**, Universidad Santo Tomás.
- April 2022 – *presnete.* Global mapping of mycorrhizal networks; Society for the Protection of Underground Networks (SPUN). **Associate Researcher**, Universidad Santo Tomás.
- December 2021 - December 2024. Subsidy for the Installation in the Academy 2021 (ANID - Chile) No. SA77210019: “Strengthening in teaching and research of the Doctorate in Conservation and Management of Biodiversity and the Faculty of Sciences, Universidad Santo Tomás, in the study of southern soils, their biodiversity, and ecosystem services”. **Principal Investigator**, Universidad Santo Tomás. USD$246,246.
- April 2021 – March 2025. Fondecyt Regular Project 1211655 (Dr. Paula Aguilera, UFRO): Biodiversity and functionality of arbuscular mycorrhizal fungi: Incorporation of bioinoculants in Viticulture for sustainable production under a global change scenario. **Co-Researcher**, University of O’Higgins. USD$305,710.
- April 2019 – March 2022. Froward Cape Research Project, UACh - VIDCA, No. 43353934. (Dr. Pablo Corti, UACh). **Co-Researcher**, University of O´Higgins. USD$6,600.
- April 2019 – March 2022. Fondecyt Regular Project 1190642 (Dr. Roberto Godoy, UACh): Relationship between plant mycorrhizal type and soil fungal assemblages of endangered *Araucaria araucana forest* in Nahuelbuta National Park, Chile. **Co-Researcher**, Austral University of Chile. USD$143,014.
- November 2018 – October 2021. Fondecyt Initiation Project 11180869 (Dr. Claudia Rojas, UOH): Understanding the effect of fires on non-mutualistic diazotrophic population structure in Mediterranean native forest soils: towards ecosystem services and natural resilience restoration. **Part of the research team**, University of O’Higgins, Chile.
- November 2018 – December 2020. Posdoctoral research project, University of O’Higgins: Diversidad fúngica integral como indicadora de recuperación de la salud del suelo, tras tratamientos orgánicos post-incendio en la VI Región de Chile. **Principal researcher.** USD$58,140.
- September 2018 – *present*. Taproot iDiv project: Global Soil Biodiversity and Ecosystem Function Dynamics. **Invited researcher.** German Centre for Integrative Biodiversity Research (iDiv), Halle-Jena-Leipzig, Germany.
- January 2018 - April 2019. Proyecto Fondo de Protección Ambiental No. 6-RE-002-2018 (Dra. Claudia M. Rojas Alvarado, UOH): Recuperación de salud de suelos y su implicancia en el restablecimiento de bosque nativo incendiado en zonas del secano de la VI Región. **Collaborator**, University of O’Higgins, Chile.

- February 2015 - April 2017. DFG-SPP Program 1803: EarthShape: Earth Surface Shaping by Biota; sub-project: Biogenic weathering: opening the black box with new isotope systems and in situ mineral decomposition experiments (EarthShape – BioSoils). **Student.** University of Hannover, Germany; Austral University of Chile, Chile.
- March 2014 - April 2017. Fondecyt Regular Project 1141060 (Dr. Roberto Godoy, UACh): Soil-age driven inverse coupling of biogenic weathering and nutrient recycling on ecosystem level. **Student.** Austral University of Chile, Chile; University of Hannover, Germany.
- September 2011 - October 2014. Evolutionary Agroecology Project. **Student.** University of Copenhagen, Denmark.

Supervised Postdoctoral researchers
- August 2023 – July 2026. **Dr. Mariana Valoy**, Regional Institute of Ecology – CONICET, Tucumán, Argentina. "Multilevel selection and its implications as an agro-evolutionary management strategy in quinoa crops in Tucumán, Argentina". Founded by CONICET, Argentina. **Supervisor: Marín, C.** Co-supervisor: Lomascolo, S.B.

Thesis supervision and co-supervision
- Acevedo, L. 2026. "Relación entre rasgos foliares y el crecimiento de *Fitzroya cupressoides* en suelos con distinta disponibilidad de fósforo en el Parque Nacional Alerce Costero". Natural Resources Conservation Engineering Thesis, Austral University of Chile, Valdivia, Chile. Supervisor: Urrutia-Jalabert, R. **Co-supervisor: Marín, C.**
- Martínez Manzano, C. 2026. "Relaciones entre el crecimiento de *Fitzroya cupressoides* y sus rasgos subterráneos bajo distintas condiciones nutricionales en el Parque Nacional Alerce Costero". Natural Resources Conservation Engineering Thesis, Austral University of Chile, Valdivia, Chile. Supervisor: **Marín, C.** Co-supervisor: Urrutia-Jalabert, R.
- Matte, B.M. 2026. "Tendencias y vacíos en la investigación de micorrizas en América del Sur: Un análisis bibliométrico". Biology mention Environment, Universidad de Chile, Chile. **Supervisor: Marín, C.** Co-supervisor: Rubio, J.
- Turbay, A. 2024. "Impacto del uso de suelo en la colonización y diversidad de hongos micorrízicos arbusculares en Chile". Environmental Engineering, Duoc UC, Santiago, Chile. **Supervisor: Marín, C.**
- Manqui Casanova, Y.W. 2024. "Efectos de la inoculación de hongos micorrízicos arbusculares en la adapatación de *Vitis vinifera* L. var Pinot noir en suelos con aluminio fitotóxico en Chile". Natural Resources Conservation Engineering Thesis, Austral University of Chile, Valdivia, Chile. **Supervisor: Marín, C.** Co-supervisor: Aguilera, P.
- Rubio Poblete, J.C. 2022. "Meta-análisis sobre biodiversidad y funciones ecosistémicas del suelo en Chile". Geography Thesis, Austral University of Chile, Valdivia, Chile. Supervisor: Godoy, R. **Co-supervisor: Marín, C.**
- Araneda Vargas, R. F. G. 2018. "Química del agua de precipitación en una red de sitios remotos en Áreas Protegidas, Centro Sur de Chile". Natural Resources Conservation Engineering Thesis, Austral University of Chile, Valdivia, Chile. Supervisor: Godoy, R. **Co-supervisor: Marín, C.**

Thesis opposing committee
- Zambrano, S. 2026 – *present*. Title to be defined. PhD in Antarctic and Sub-Antarctic Sciences, Universidad de Magallanes. Supervisor: Sánchez-Jardón, L.
- Fresno, C. 2026 – *present.* "Integración de interacciones no tróficas en el modelamiento de la pesquería del huiro mediante Redes de Reacciones". PhD in Informatics Applied to Health and the Environment, Universidad Tecnológica Metropolitana. Supervisor: Veloz, T. Co-supervisor: Navarrete, S.
- Scherer, J. 2024 – *present*. Title to be defined. PhD in Biological Sciences, Northern Arizona University. Supervisor: Johnson, N.C.
- Fernández, R. 2026 – *present*. "Impacto de especies leñosas invasoras fijadoras de nitrógeno en la descomposición de hojarasca y microbioma del suelo en rodales de bosque emergente periurbano del centro-sur de Chile". PhD in Forest Sciences, Universidad de Concepción. Supervisor: Saldaña, A.
- Sepúlveda, J. 2025 – *present*. "Functional response of mycorrhizae after high-severity wildfires: organic matter production and carbon sequestration in temperate rainforests of southern Chile". PhD in Science of Natural Resources, Universidad de La Frontera. Supervisor: Matus, F.
- Ávila Guerrero, P.M. 2025 – *present*. "Rol de las biopelículas marinas en la biorreceptividad de sustratos artificiales biomejorados para la restauración de hábitats urbano-costeros". PhD in Biodiversity Conservation and Management, Universidad Santo Tomás. Supervisor: Lagos Suárez, N.
- Cuevas Vásquez, J.P. 2023 – 2024. "Efecto de técnicas de cultivo de Hongos micorrícicos Arbusculares sobre la producción de propágulos de micorriza arbuscular". Bachelor in Biology with mention in Environment Thesis, University of Chile. Supervisor: Silva-Flores, P. Sponsor: Bustamante, R.
- Aqueveque Jara, D.I. 2022 – 2025. "Consorcios microbianos para la inoculación y restablecimiento de la especie extinta en Rapa Nui: *Sophora toromiro*". Master in Agronomic Sciences Thesis, University of Concepción, Chile. Supervisor: Gerding Gonzalez, M.
- Carter Carter, S.A. 2023 – 2024. "Efecto de los incendios y plantas nodrizas sobre la estructura comunitaria de hongos micorrícicos arbusculares de bosque higrófilo en Chile central". Bachelor in Biology with mention in Environment Thesis, University of Chile. Supervisor: Silva-Flores, P. Co-supervisor: Duarte, M.
- Schapheer Carrasco, C. 2019 – 2022. "Composición y diversidad filogenética del ensamble microbiano de la hojarasca de bosques esclerófilos, plantaciones forestales e intestino de cucarachas endémicas del género Moluchia Rehn, 1933 (Blattodea:

Ectobiidae) asociado a su rol funcional como agente detritívoro". Doctorate in Silvo-agricultural and Veterinary Sciences Thesis, University of Chile, Santiago, Chile. Supervisor: Scherson Vicencio, R. Co-supervisor: Fuentes Espoz, J.P.

Visiting students/researchers
- 2026. Elizabeth Randolph. Fullbright scholar, Northern Arizona University, United States.
- 2025. Ava M. Cooper. Bachelor student, Durham University, United Kingdom.
- 2025. Lara J. Fox. Bachelor student, Durham University, United Kingdom.
- 2024. Felix Dittrich. PhD student, Universität Trier, Germany.

Awards
- 2025. Top 1 Mycorrhizal Research Paper (IMS Newsletter No. 17).
- 2025. Commitment to Internationalization award 2024, Universidad Santo Tomás.
- 2025. Researcher Frontier Science Program (2025-2027), Chilean Academy of Sciences. Member of the Directive.
- 2024. Carlos Luis Spegazzini Medal. Granted by: International Mycological Association
- 2022. "We are Mycelium 2022" Award. Granted by: FungiFest - Valdivia Mushroom Festival.
- 2021. "Dr. Humberto Maturana Youth Symposium" Award. Granted by: Chilean Biology Society.
- 2019. Afrocolombian of the Year 2019, category Academy. Granted by: El Espectador newspaper and Color de Colombia Foundation.
- 2016. Second best poster. **Marín, C.**, Godoy, R., Boy, J., Öpik, M. 2016. Soil fungal assemblages in Chilean temperate rainforests: effects of geological history, mycorrhizal dominance and altitude on taxonomic, functional and phylogenetic diversity. Metagenomics Bioinformatics course, European Bioinformatics Institute (EMBL-EBI), Hinxton, United KIngdom.

Scientific memberships (past and present)
Weed Science Society of America; Asociación Colombiana de Botánica; Red Colombiana de Biología Evolutiva; American Society of Naturalists; British Ecological Society; Global Soil Biodiversity Initiative; Global Soil Partnership (FAO); Asociación Colombiana para el Avance de la Ciencia; International Mycological Association; South American Mycorrhizal Research Network; Global Soil Biodiversity Observation Network; Asociación Latinoamericana de Micología; Tropical Root Trait Initiative; Sociedad de Biología de Chile; Society for the Protection of Underground Networks; International Network on Soil Biodiversity (FAO); International Mycorrhiza Society; Rasgos-CL; Multilevel Selection Initiative; Society for Open, Reliable, and Transparent Ecology and Evolutionary Biology; New Paradigm Coalition (Chile hub); Chilean Academy of Sciences (Researcher Frontier Science Program); UN FAO Intergovernmental Technical Panel on Soils (ITPS); Mycological Society of America Latin American Chapter; International Mycorrhiza Society; Society for Open, Reliable, and Transparent Ecology and Evolutionary Biology (advocacy & outreach committees), Global Initiative of Sustainable Agriculture and Environment (member), MicrobeNetNet.

National and Regional Committees
- 2026 – *present*. Permanent observer to the Regional Committee for Escazú, Los Ríos Region, Chile.
- 2025 – *present*. Terrestrial Ecosystems Commission, Regional Climate Change Committee (CORECC), Los Ríos Region, Chile.
- 2024 – *present*. Grupo de Evaluación Biología 1, National Research and Development Agency, Chile.
- 2023 – 2025. Congreso Futuro Committee: Territories and Soil to build Future, Chile.
- 2023 – *present*. Regional Climate Change Committee (CORECC), Los Ríos Region, Chile.
- 2022 – *present*. REDD+ Group (National Strategy for Climate Change and Vegetation Resources), Los Ríos Region, Chile.

Organization of scientific events and courses
- 2025 – 2026. Organizer Symposium 5: "An assessment of cooperation and adaptation models in mycorrhizas" in the 13th International Conference on Mycorrhiza (ICOM13), Cairns Convention Centre, Cairns, Australia.
- 2024 – 2026. Organizer IV International Symposium of the Mycorrhizal Symbiosis in South America, ESPE University, Quito, Ecuador.
- 2026. Organizer "IV Simposio CLAM de la Red Sudamericana de Investigación en Micorrizas". XII Latin American Mycology Congress, Universidad Andina Simón Bolívar, Quito, Ecuador.
- 2025. Member of the Scientific committee. IV Argentine Mycology Meeting, Bariloche, Argentina.
- 2025. ISME presentations judge, 4° Congreso Latinoamericano de Ecología Microbiana, Mérida, México.
- 2025. Member of the Scientific committee, XXIV Latin American Congress of Soil Science, Santa Cruz, Bolivia.
- 2023 – 2024. Organizer Workshop 7: "Natural Selection in Arbuscular Mycorrhizal Symbioses" in the 12th International Conference on Mycorrhiza (ICOM12), Manchester Central Convention Complex, Manchester, United Kingdom.
- 2022 – 2023. Organizer III CLAM Symposium of the South American Mycorrhizal Research Network, Hotel El Panamá, Ciudad de Panamá, Panamá.
- 2018 – 2022. Scientific Adviser and Organizer, FungiFest, Festival de los Hongos de Valdivia, Valdivia, Chile.
- 2019 – 2020. Organizer X Latin American Mycology Congress, University of Chile, Santiago, Chile.
- 2019 – 2023. Organizer III International Symposium of the Mycorrhizal Symbiosis in South America, SINCHI Institute, Leticia, Amazonas, Colombia.

- 2019. Organizer graduate course Molecular analysis of terrestrial and freshwater cyanobacterial/algal communities in pristine temperate rainforests, Southern Chile, Austral University of Chile, Chile.
2018 – 2019. Founding member of the Global Soil Biodiversity Observation Network, with meetings in the German Centre for Integrative Biodiversity Research (iDiv), Halle-Jena-Leipzig, Germany (2018), and in the Joint Research Centre of the European Commission, Ispra, Italy (2019). Link.
- 2018. Elsevier poster judge, Ecology theme, 11St International Mycological Congress, Puerto Rico.
- 2018. Organizer II International Symposium Mycorrhizal Symbiosis in South America, Universidad Nacional del Comahue, Bariloche, Argentina.
- 2018. International consultant and member of the scientific committee, 5th Interdisciplicary Congress – The science in the reduction of inequality, Faculdade Evangélica de Goianésia, Goianésia, Brazil.
- 2017. International guest, VI Rick Foray, Laboratório de Micologia, Universidade Federal de Santa Catarina. Lagoa do Peri, Florianópolis, Brazil.
- 2017. Symposium coordinator: *"South American Mycorrhizal Research Network"* in the IX Latin American Congress of Mycology, Cayetano Heredia Peruvian University, Peru.
- 2017. Organizer of the *International Workshop 2017: Mycorrhizal symbiosis in the southern cone South America*, Austral University of Chile, Chile.
- 2016. Organizer graduate course Molecular community ecology of arbuscular mycorrhizal fungi (AMF), Austral University of Chile, Chile.
- 2014. Organizer III and IV Seminar cycle of Plant Biology. Austral University of Chile, Chile.

Miscellaneous
- 2026. Jury of the King Bhumibol World Soil Day Award 2026, FAO.
- 2026. Ranking Committee, external member. Universidad de La Serena, Chile.
- 2025. Jury of the Doctoral Thesis Award, Chilean Academy of Sciences.
- 2025. Participation in the 23th Intergovernmental Technical Panel on Soils (ITPS) working session, FAO, Rome, Italy.
- 2025. Participant on the III National Meeting on the Internationalization of Science and Technology, Medellín, Colombia.
- 2024 – present. Foreign collaborator in the research group "Research and Development of Agroindustrial and Environmental Biotechnological Processes", Universidad Nacional Mayor de San Marcos, Lima, Peru.
- 2024 – present. Foreign collaborator in the research group and Master program in "Ecosystem health", Universidad Nacional de San Martín, Tarapoto, Peru.
- 2023 – present. Foreign collaborator in the research group "Research in Agroforestry Biotechnology", Universidad Nacional de San Martín, Tarapoto, Peru.
- 2023. Jury Microorganisms kid painting award, Explora Los Ríos, Chile.
- 2023 – 2025. Jury of The Future is Fungi Award (https://www.futureisfungi.org/the-jury).
- 2022 – 2024. Jury "FungiFoto" contest, FungiFest – Valdivia Mushroom Festival.
- 2020 – 2026. Participation as Partner (South American Mycorrhizal Research Network) on the 8th, 9th, and 10th Sessions of the Global Soil Partnership (FAO) Plenary Assembly.
- 2019 – 2020. Scientific advisor Academies of Scientific Research School, PAR Explora CONICYT - O'Higgins Region, Chile.
- 2019 – present. Foreign collaborator in the research group "Soils, Ecology, and Organic Matter Dynamics", Evangelical School of Goianésia, Goianésia, Brasil.
- 2016. Adequacy of the visitors' center (with informative posters) of the Alerce Costero National Park, Chile.
- 2016. Coordinator of interchange agreement between Austral University of Chile (Chile) and University of Hannover (Germany).
- 2015. Instructor for intern student (University of Hannover, Germany) on Austral University of Chile, Chile.
- 2014. Reviewer XI Scholar Regional Congress of Science and Techology, Explora CONICYT, Los Ríos Region, Chile.
- 2011 – 2013. Student representative and career accreditation. Environmental Biology bachelor, Jorge Tadeo Lozano University, Colombia.
- 2011 – 2013. Reviewer. National Short Stories Contest, Colombian Society of Universities, Bogotá, Colombia.

Press reports
- 2013 – 2026. 329 printed and online press reports on media from Colombia, Chile, Denmark, United States, Germany, Estonia, Peru, Brazil, Spain, United Kingdom, Australia, China, the Netherlands, Switzerland, etc.