

Dr. César Marín

Date: 20 January 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 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](#) - Editor: [Journal of Sustainable Agriculture and Environment](#); [Fungal Ecology](#); [Plants, People, Planet](#); [IMA Fungus](#). 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 – 2025. A total of **8 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 - 2025. **Responsible professor.** 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: Scientific methodology workshop (2022-I - 2025-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 Panamá – 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 – 2025. **Collaborator/Invited professor.** 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, 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, 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 – 2025-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

- 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*.
- Godoy, R., Aguilera, P., Retamal, J., Guzmán Riffo, E., Fox, L.J., Cooper, A.M., Martínez Manzano, C., **Marín, C.** 2026. Spores of arbuscular mycorrhizal fungi inhabiting inside mossballs of *Rigodium implexum*. *MicroPublication Biology*.
- 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*.
- Godoy, R., **Marín, C.** 2025. Nicolás Pacheco: guardaparque con una fructífera labor naturalista por más de medio siglo. *Gayana Botánica*.
- 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 plantations in the Peruvian Amazon basin. *Frontiers in Forests and Global Change*.
- Chavez Rodriguez, L., Oyarzabal, G., Soares, B.E., Guzmán Luna, G., **Marín, C.** 2026. Migration should be a personal choice, not the only one - a reflection on scientific diasporas. *Research Ideas and Outcomes*.
- 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 disproportionately to fungal diversity in a coniferous forest with one of oldest living trees on Earth. *Biodiversity and Conservation*.
- Peredo Albornoz, G., **Marín, C.**, Prado Mendoza, C. 2026. Healing the womb. Cosmopolitics weave on relationality concept between Soulé, Varela's Program, and Indigenous Knowledge Systems. *The Monist*.
- 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*.

Publications numbers

Web of Science/Scopus peer-reviewed articles: 61; other-indexation articles: 32 (13 peer-reviewed) – **74 peer-reviewed articles**; corrections: 1; active preprints: 3; book chapters: 6; books (Ed): 2; tech. reports: 3; proceedings: 4; doctoral thesis: 1; datasets: 2.

→ First/senior/corresponding author: 88/115. → 3563 Google Scholar citations (h-index: 20; 10-index: 39). → Outreach articles: 67.

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

- **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*. Accepted.
- Lozano, A., Vallejos-Torres, G., Gaona-Jimenez, N., Alva Arévalo, A., Alvarado, J.W., García Gonzáles, P., Saavedra Ramírez, J., Tuesta-Hidalgo, J.C., Tuesta-Hidalgo, O.A., Baselly-Villanueva, J.R., Chuchon-Remon, R., Rengifo-Del Águila, S., **Marín, C.** 2026. Large trees dominate carbon storage in the forests of the Peruvian Amazon. *Frontiers in Forests and Global Change*. Accepted.
- 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>
- **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): wrf137. 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., Reategui, 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-Ramírez, 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/qp234>
- 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 endemism 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 micorrízicos 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. *Rhizoglossum 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 *Rhizoglossum*. *Nova Hedwigia* 115(1-2): 99-115. DOI: https://doi.org/10.1127/nova_hedwigia/2022/0698

- Moura, J.B., Souza, R.F., Vieira Júnior, W.G., Lucas, L.S., Santos, J.M., Dutra e Silva, S., **Marín, C.** 2022. Effects of a megafire in the arbuscular mycorrhizal fungal community and parameters in the Brazilian Cerrado ecosystem. *Forest Systems* 31(1): e001. DOI: <https://doi.org/10.5424/fs/2022311-18557>

- Vallejos-Torres, G., Valles Ruiz, R., Chappa Santa María, C.E., Gaona Jimenez, N., **Marín, C.** 2022. Una alta diversidad de hongos micorrízicos arbusculares influye en la absorción de cadmio y crecimiento vegetal del cacao. *Bioagro* 34(1): 75-84. DOI: <https://doi.org/10.51372/bioagro341.7>

- Tedersoo, L., Mikryukov, V., Anslan, S., Bahram, M., Khalid, A.N., Corrales, A., ..., **Marín, C.**, ..., Abarenkov, K. 2021. The Global Soil Mycobiome consortium dataset for boosting fungal diversity research. *Fungal Diversity* 111: 573-588. DOI: <https://doi.org/10.1007/s13225-021-00493-7>

- Cusack, D.F., Addo-Danso, S.D., Agee, E.A., Andersen, K.M., Arnaud, M., Batterman, S.A., ..., **Marín, C.**, ..., Yaffar, D. 2021. Tradeoffs and Synergies in Tropical Forest Root Traits and Dynamics for Nutrient and Water Acquisition: Field and Modeling Advances. *Frontiers in Forests and Global Change* 4: 704469. DOI: <https://doi.org/10.3389/ffgc.2021.704469>

- Vallejos-Torres, G., Ríos-Ramírez, O., Corazon-Guivin, M.A., Reategui, E., Mesén Sequeira, F., **Marín, C.** 2021. Effects of number of leaflets and indole-3-butyric acid dose in the vegetative propagation by mini-tunnels of the rubber tree (*Hevea brasiliensis*). *Journal of Rubber Research* 24(3): 533-540. DOI: <https://doi.org/10.1007/s42464-021-00097-5>

- García-Carmona, M., **Marín, C.**, García-Orenes, F., Rojas, C. 2021. Contrasting organic amendments induce short-term responses in soil abiotic and biotic properties in a fire-affected native mediterranean forest in Chile. *Journal of Soil Science and Plant Nutrition* 21(3): 2105-2114. DOI: <https://doi.org/10.1007/s42729-021-00506-z>

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- **Marín, C.** 2023. ¡No a la Ruta T-720! *Diario Austral (Región de Los Ríos)*. 24/07/2023. [Online](#).
- **Marín, C.** 2023. Estrategias frente al cambio climático en la costa chilena. *Diario La Tercera*. 11/05/2023. [Online](#).
- Fernández, N.V., **Marín, C.**, van Galen, L. 2023. What we are reading in April-II, 2023. *South American Mycorrhizal Research Network*. [Online](#).
- **Marín, C.** 2023. Soluciones no tan obvias frente a crisis. *Diario Austral (Región de los Ríos)*. 25/03/2023. [Online](#).
- Redacción *Diario Austral*, **Marín, C.** 2023. Entrevista: Científico analiza importancia de hongos. *Diario Austral (Región de los Ríos)*. 06/02/2023. [Online](#).
- **Marín, C.**, Bueno, C.G., Karst, J., Hoeksema, J., Jones, M. 2023. What we are reading in February-II, 2023. *South American Mycorrhizal Research Network*. [Online](#).
- *Journal of Animal Ecology*, **Marín, C.** 2022. César Marín: building a flourishing career in soil ecology amidst Colombia's political conflict. *Animal Ecology in Focus*. [Online](#).
- **Marín, C.**, Wong-Bajracharya, J. 2022. What we are reading in October, 2022. *South American Mycorrhizal Research Network*. [Online](#).
- **Marín, C.**, Gutjhar, C. 2022. What we are reading in July, 2022. *South American Mycorrhizal Research Network*. [Online](#).
- Velásquez, J., **Marín, C.** 2022. “Hay que comprender que la ciencia cambia constantemente y nadie es 100 % racional”. *Ciencia del Sur*. [Online](#).
- **Marín, C.**, Marro, N. 2022. What we are reading in April, 2022. *South American Mycorrhizal Research Network*. [Online](#).
- **Marín, C.**, Guzman, A. 2021. What we are reading in September, 2021. *South American Mycorrhizal Research Network*. [Online](#).
- **Marín, C.**, Malar C, M. 2021. What we are reading in June, 2021. *South American Mycorrhizal Research Network*. [Online](#).

- **Marín, C.,** Wall, D.H., Guerra, C.A. 2021. What we are reading in March-II, 2021. South American Mycorrhizal Research Network. [Online.](#)
- **Marín, C.,** Martin, F.M. 2020. What we are reading in September, 2020. South American Mycorrhizal Research Network. [Online.](#)
- **Marín, C.,** Soudzilovskaia, N. 2020. What we are reading in September, 2020. South American Mycorrhizal Research Network. [Online.](#)
- **Marín, C.,** Tedersoo, L. 2020. What we are reading in April, 2020. South American Mycorrhizal Research Network. [Online.](#)
- **Marín, C.** 2019. Nota editorial. *Revista Digital Fulica*, Edición No. 10: El alucinante universo de los hongos. [Online.](#)
- **Marín, C.** 2018. La ciencia ha sido mi terapia ante la violencia en Colombia. *Revista Digital Fulica*, Edición Especial No. 1. [Online.](#)
- **Marín, C.** 2018. Monitoreando la biodiversidad global del suelo. Postgrados Facultad de Ciencias UACH. [Online.](#)
- **Marín, C.** 2018. Los gonfoterios alteraron la vegetación chilena del Pleistoceno tardío. Facultad de Ciencias UACH. [Online.](#)
- **Marín, C.** 2018. Entendiendo el origen de las especies (y de la cerveza) en un tubo de ensayo. Postgrados Facultad de Ciencias UACH. [Online.](#)
- **Marín, C.** 2018. Understanding the evolution of the mycorrhizal symbioses: a matter of phylogenetics or paleontology? Beneath our Feet. [Online.](#)
- **Marín, C.** 2018. One year Networking South American mycorrhizal research. Beneath our Feet. [Online.](#)
- **Marín, C.** 2018. What we are reading in November-December, 2017. South American Mycorrhizal Research Network. [Online.](#)
- **Marín, C.** 2018. Evolución experimental con levaduras: entendiendo El Origen de las Especies (y de la cerveza) en un tubo de ensayo. Chile Hace Ciencia. [Online.](#)
- **Marín, C.,** Paulino, L. 2017. Leandro Paulino, proyecto EarthShape: cómo se origina el suelo. Chile Hace Ciencia. [Online.](#)
- **Marín, C.,** Hurtado, N. 2017. Natali Hurtado, Taxónoma. Chile Hace Ciencia. [Online.](#)
- **Marín, C.** 2017. Hongos micorrízicos para aumentar la producción de cereales en el sur de Chile. Chile Hace Ciencia. [Online.](#)
- **Marín, C.** 2015. Hongos que “comen” rocas. *Órbitas Científicas* 3(31): 63.
- **Marín, C.** 2014. Docilidad o agresividad en arañas sociales: una evidencia más de selección de grupo. *Órbitas Científicas* 3(30): 63.
- **Marín, C.** 2014. Selección natural en múltiples niveles: ¿un debate de nunca acabar? *Órbitas Científicas* 3(29): 83.
- **Marín, C.,** Wilson, D.S. 2014. Entrevista: el doctor David Sloan Wilson. *Órbitas Científicas* 3(29): 74-80.
- **Marín, C.** 2014. Un problema de conceptos y difusión, no de herencia. *Órbitas Científicas* 3(28): 57.
- **Marín, C.** 2014. Criminalidad, culpabilidad y biología del castigo. *Órbitas Científicas* 3(27): 59.
- **Marín, C.** 2014. Transgénicos: variación, biodiversidad y ecología evolutiva. *Órbitas Científicas* 3(26): 61.
- **Marín, C.** 2014. Biodiversidad humana. *Órbitas Científicas* 3(25): 59.
- **Marín, C.** 2014. Las mariposas Heliconius y el origen de las especies. *Órbitas Científicas* 2(24): 55.
- **Marín, C.** 2014. El gen casi nunca es egoísta: una visión fenotípica de la evolución. *Órbitas Científicas* 2(23): 59.
- **Marín, C.** 2013. Estudios evolutivos de la religión. *Órbitas Científicas* 2(22): 59.
- **Marín, C.** 2013. Volvox: cooperación y transiciones mayores en la vida. *Órbitas Científicas* 2(21): 57.
- **Marín, C.** 2013. Agroecología Evolutiva: Darwin en la finca. *Órbitas Científicas* 2(20): 53.
- Bernal Ramírez, J., **Marín, C.** 2013. César Marín: un biólogo ambiental que imparte conocimiento. *La Brújula*. 52: 14-17.

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.
- **Marín, C.** 2017. *Abstracts Book Workshop Mycorrhizal symbiosis in the southern cone South America*. Austral University of Chile, Valdivia, Chile. 74 p. (Ed.).

Editor for journals

- 2025 – present. Associate Editor, *Frontiers in Plant Science*. <https://www.frontiersin.org/journals/plant-science>
- 2025 – present. Associate Editor, *npj Soil Ecology*. <https://www.nature.com/npjsoilecol/>
- 2025 – present. Associate Editor, *Frontiers in Microbiology*. <https://www.frontiersin.org/journals/microbiology>
- 2024 – present. Editorial Board (Subject Editor), *IMA Fungus*. <https://imafungus.pensoft.net/editors/>
- 2024 – present. Editorial Board (Advisor), *Plants, People, Planet*. <https://nph.onlinelibrary.wiley.com/journal/25722611>
- 2023 – present. Editorial Board, *Fungal Ecology*. <https://www.sciencedirect.com/journal/fungal-ecology>
- 2023 – 2025. Editorial Board, Microbial Symbioses (*Frontiers in: Microbiology, Marine Science*). <https://www.frontiersin.org/journals/microbiology/sections/microbial-symbioses>
- 2022 – 2023. Editorial Board, Evolutionary and Genomic Microbiology section (*Frontiers in: Microbiology, Genetics, and Ecology and Evolution*). <https://www.frontiersin.org/journals/all/sections/evolutionary-and-genomic-microbiology>
- 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 – present. Editorial Board, *Journal of Sustainable Agriculture and Environment*. <https://onlinelibrary.wiley.com/journal/2767035x>

- 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. *Cientific@ - 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=81)

IMS Newsletter (60), *Frontiers in Plant Science* (7), *Fungal Ecology* (6), *IMA Fungus* (4), *Frontiers in Microbiology* (3), *Frontiers in Forests and Global Change* (1).

Reviewer for journals (n=300)

BioScience (2), *Journal of Soil Science and Plant Nutrition* (18), *Microbiome* (4), *Applied Soil Ecology* (26), *Fungal Ecology* (2), *Plant and Soil* (5), *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* (9), *Biodiversity Data Journal* (1), *Data* (3), *Frontiers in Microbiology* (23), *Phytotaxa* (1), *Land* (18), *Ecosistemas* (2), *Biocatalysis and Agricultural Biotechnology* (1), *Bosque* (4), *PLOS One* (1), *Zygon: Journal of Religion and Science* (2), *Chiang Mai Journal of Science* (1), *Sensors* (1), *Frontiers in Plant Science* (5), *Mycorrhiza* (3), *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* (7), *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* (6), *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* (1), *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).

Review of books and books chapters

- Evolución de las especies por cooperación natural. Editorial de la Universidad Peruana de Ciencias Aplicadas. Santiago de Surco, Perú, 160 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), Postdocs 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 (1), FONDECYT Initiation 2026 (3), ARIS Public Call Slovenia 2025 (3), FONDECYT Regular 2026 (5).

Scientific conferences participation

- 2012 – 2026. 86 participations (51 as main presenter – 8 as keynote speaker – 27 as co-author; 1 travel grant) on scientific conferences on: Colombia, United States, Chile, Brazil, Germany, Argentina, United Kingdom, Austria, Czech Republic, Peru, Puerto Rico, Mexico, Estonia, China, Panama, India.

→ Keynote talks:

- **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. 4º 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 – 2025. 143 invited conferences (83 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

- February 2026 – February 2028. SOCBIO-MAP. European Space Agency. **Co-Researcher**, Universidad Santo Tomás.
- 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 – 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 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.**
- December 2023 – December 2025. Dr. Diego Martínez-Rincón, Universidad del Quindío, Armenia, Colombia. “Metagenomic evaluation of the root microbiome in banana crops affected and not affected by “Moko” (*Ralstonia solanaceum*, Race II) in the department of Quindío”. Postdoctoral research project funded by Sciences Minister, Colombia. **International collaborator**, Universidad Santo Tomás.
- 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

- 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 adaptación 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

- 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 micorrízicos 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.
- Echeverry Hernández, S. 2021 – *present*. “Ecological and molecular topics of arbuscular mycorrhizal fungal communities in tropical forests”. Doctorate in Sciences -Biology Thesis, University of Caldas, Manizales, Colombia. Supervisor: Posada Almanza, R.H. Co-supervisor: Rodríguez Villate, A.

- 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

- 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).

National and Regional Committees

- 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 – *present*. 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. 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, 11th 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 Interdisciplinary 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. 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 – present. Jury of The Future is Fungi Award (<https://www.futureisfungi.org/the-jury>).
- 2022 – 2024. Jury “FungiFoto” contest, FungiFest – Valdivia Mushroom Festival.
- 2020 – 2022. 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, Brazil.
- 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 Technology, 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 – 2025. 271 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.