

Dr. César Marín

Date: 4 August 2022.

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

Website: <https://cesar-marin.com/> Profile on: Google Scholar - [ResearchID/Publons](#) - [ORCID](#) - [ResearchGate](#)
Founder and Lead of the [South American Mycorrhizal Research Network](#) – Board of Directors, [International Mycorrhiza Society](#) – Network Lab, [Global Soil Biodiversity Observation Network \(Soil BON\)](#) - Research Associate, [Society for the Protection of Underground Networks \(SPUN\)](#). Editor: [International Mycorrhiza Society Newsletter](#) - (Board) [Journal of Sustainable Agriculture and Environment](#); [Evolutionary and Genomic Microbiology section](#) (Front. in: Microbiol., Genet., Ecol. Evol.).
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](#).
E-mail: cmarind@santotomas.cl

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

Positions

- January 2022 – *present*. Researcher and Academic. 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 – 2018. A total of **7 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 – 2022. **Six research stays summing 18 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 (2 stay in 2015 and 2022, 4 months); Plant Biology Group, Lund University, Lund, Sweden (1 stay in 2020, 1 month).

Teaching experience

- 2017 - 2022. **Responsible professor.** Santo Tomas University, Máfil, Chile: Scientific methodology workshop (2022-I, graduate). 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 – 2022. **Collaborator/Invited professor.** Santo Tomas University, Máfil, Chile: Ecology basics (2022-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: Forest Ecology (2017-II, 2019-II, 2021-II, graduate),

Biodiversity (2016-I – 2019-I, 2022-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

- Vallejos-Torres, G., Mendoza-Caballero, W., Gaona-Jimenez, N., Chappa-Santa María, C.E., Paredes, C.I., Lozano, A., Saavedra, J., Tuesta, J.C., Tuesta, O.A., **Marín, C.** 2022. Cadmium uptake and mycorrhization by cacao clones in agroforestry and monoculture systems of Peruvian amazon. *Tropical and Subtropical Agroecosystems*.
- Tedersoo, L., Mikryukov, V., Zizka, A., Bahram, M., Hagh-Doust, N., Anslan, S., Prylutskyi, O., Delgado-Baquerizo, M., Maestre, F.T., Pärn, J., Öpik, M., Moora, M., Zobel, M., Espenberg, M., Mander, Ü., Khalid, A.N., Corrales, A., Agan, A., Vasco-Palacios, A.M., Saitta, A., Rinaldi, A.C., Verbeken, A., Sulistyó, B.P., Tamgnoue, B., Furneaux, B., Duarte Ritter, C., Nyamukondiwa, C., Sharp, C., **Marín, C.**, Gohar, D., Klavina, D., Sharmah, D., Qin Dai, D., Nouhra, E., Machteld Biersma, E., Rähn, E., Cameron, E.K., de Crop, E., Otsing, E., Davydov, E.A., Albornoz, F.E., Brearley, F.Q., Buegger, F., Zahn, G., Bonito, G., Hiiesalu, I., Barrio, I.C., Heilmann-Clausen, J., Ankuda, J., Kupagme, J.Y., Maciá-Vicente, J.G., Djeugap Fovo, J., Geml, J., Alatalo, J.M., Alvarez-Manjarrez, J., Pöldmaa, K., Runnel, K., Adamson, K., Bråthen, K.A., Pritsch, K., Tchan, K.I., Armolaitis, K., Hyde, K.D., Newsham, K.K., Panksep, K., Lateef, A.A., Tiirmann, L., Hansson, L., Lamit, L.J., Saba, M., Tuomi, M., Gryzenhout, M., Bauters, M., Piepenbring, M., Wijayawardene, N., Yorou, N.S., Kurina, O., Mortimer, P.E., Meidl, P., Kohout, P., Nilsson, R.H., Puusepp, R., Drenkhan, R., Garibay-Orijel, R., Godoy, R., Alkahtani, S., Rahimlou, S., Dudov, S.V., Pölme, S., Ghosh, S., Mundra, S., Ahmed, T., Netherway, T., Henkel, T.W., Roslin, T., Nteziriyayo, V., Fedosov, V.E., Onipchenko, V.G., Yasanthika, W.A.E., Woon Lim, Y., Soudzilovskaia, N.A., Antonelli, A., Kõljalg, U., Abarenkov, K. 2022. Global patterns in endemism and vulnerability of soil fungi. *Global Change Biology*.
- **Marín, C.**, Godoy, R., Boy, J., Öpik, M. 2022. Geological history and forest mycorrhizal dominance effects on soil fungal diversity in Chilean temperate rainforests. *Journal of Soil Science and Plant Nutrition*.
- 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*.
- 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*.

Publications numbers

Web of Science articles: 33; *other-indexation articles: 9; non-indexed articles: 7; preprints: 3; book chapters: 2; books (Ed): 1; technical reports: 3; proceedings: 2; doctoral thesis: 1.
→ First/corresponding author: 39/61. → 702 Google Scholar citations (h-index: 11). → Outreach articles: 33.

Indexed articles (*=Non Web of Science article)

- **Marín, C.**, Rubio, J., Godoy, R. 2022. Chilean blind spots in soil biodiversity and ecosystem function research. *Austral Ecology*. Accepted.
*- **Marín, C.** 2022. Ten tips for young scientists on how not to think about science. *Vínculos ESPE*. Accepted.
- 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*. Accepted.
- 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
*- **Marín, C.**, Rojas, C. 2022. Seasonal responses of C and N related soil conditions in a fire affected Mediterranean Chilean forest following organic amendments and plant establishment. *Agro Sur* 50(1): 31-45. DOI: <https://doi.org/10.4206/agrosur.2022.v50n1-04>
- 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 Ruíz, 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., Agan, A., Vasco-Palacios, A.M., Saitta, A., Antonelli, A., Rinaldi, A.C., Verbeken, A., Sulistyó, B.P., Tamgnoue, B., Furneaux, B., Duarte Ritter, C., Nyamukondiwa, C.,

- Sharp, C., **Marín, C.**, Dai, D.Q., Gohar, D., Sharmah, D., Biersma, E.M., Cameron, E.K., De Crop, E., Otsing, E., Davydov, E.A., Alborno, F.E., Brearley, F.Q., Buegger, F., Gates, G., Zahn, G., Bonito, G., Hiiesalu, I., Hiiesalu, I., Zettur, I., Barrio, I.C., Pärn, J., Heilmann-Clausen, J., Ankuda, J., Kupagme, J.Y., Sarapuu, J., Maciá-Vicente, J.G., Djeugap Fovo, J., Geml, J., Alatalo, J.M., Alvarez-Manjarrez, J., Monkai, J., Põldmaa, K., Runnel, K., Adamson, K., Bräthen, K.A., Pritsch, K., Tchan, K.I., Armolaitis, K., Hyde, K.D., Newsham, K.K., Panksep, K., Adebola, L.A., Lamit, L.J., Saba, M., Da Silva Cáceres, M.E., Tuomi, M., Gryzenhout, R.H., Bauters, M., Bálint, M., Wijayawardene, N., Hagh-Doust, N., Yorou, N.S., Kurina, O., Mortimer, P.E., Meidl, P., Nilsson, M., Puusepp, R., Casique-Valdés, R., Drenkhan, R., Garibay-Orijel, R., Godoy, R., Alfarraj, S., Rahimlou, S., Pölm, S., Dudov, S.V., Mundra, S., Ahmed, T., Netherway, T., Henkel, T.W., Roslin, T., Fedosov, V.E., Onipchenko, V.G., Yasanthika, W.A.E., Lim, Y.W., Piepenbring, M., Klavina, D., Kõljalg, U., 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., Brearley, F.Q., Ciochina, M.I., Cordeiro, A.L., Dallstream, C., Diaz-Toribio, M.H., Dietterich, L.H., Fisher, J.B., Fleischer, K., Fortunel, C., Fuchslueger, L., Guerrero-Ramírez, N.R., Kotowska, M.M., Lugli, L.F., **Marín, C.**, McCulloch, L.A., Maeght, J.-L., Metcalfe, D., Norby, R.J., Oliveira, R.S., Powers, J.S., Reichert, T., Smith, S.W., Smith-Martin, C.M., Soper, F.M., Toro, L., Umaña, M.N., Valverde-Barrantes, O., Weemstra, M., Werden, L.K., Wong, M., Wright, C.L., Wright, S.J., 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., Reátegui, 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>
- Silva-Flores, P., Argüelles-Moyao, A., Aguilar, A., Simões Calaça, F.J., Duchicela, J., Fernández, N., Furtado, A., Guerra-Sierra, B., Lovera, M., **Marín, C.**, Neves, M.A., Pezzani, F., Rinaldi, A.C., Rojas, K., Vasco-Palacios, A.M. 2021. Mycorrhizal science outreach: scope of action and available resources in the face of global change. *Plants, People, Planet* 3(5): 506-522. DOI: <https://doi.org/10.1002/ppp3.10213>
- Vallejos-Torres, G., Ríos-Ramírez, O., Saavedra, H., Gaona-Jimenez, N., Mesén Sequeira, F., **Marín, C.** 2021. Vegetative propagation of *Manilkara bidentata* (A.DC.) A.Chev. using mini-tunnels in the Peruvian Amazon region. *Forest Systems* 30(2): eRC01. DOI: <https://doi.org/10.5424/fs/2021302-17971>
- Pölm, S., Abarenkov, K., Nilsson, R.H., Lindahl, B.D., Clemmensen, K.E., Kauserud, H., Nguyen, N., Kjoller, R., Bates, S.T., Baldrian, P., Frøsløv, T.G., Adojaan, K., Vizzini, A., Suija, A., Pfister, D., Baral, H.O., Järv, H., Madrid, H., Nordén, J., Liu, J.K., Pawłowska, J., Põldmaa, K., Pärtel, K., Runnel, K., Hansen, K., Larsson, K.H., Hyde, K.D., Sandoval-Denis, M., Smith, M.E., Toome-Heller, M., Wijayawardene, N.N., Menolli Jr, N., Reynolds, N.K., Drenkhan, R., Maharachchikumbura, S.N.N., Gibertoni, T.B., Læssøe, T., Davis, W., Tokarev, Y., Corrales, A., Soares, A.M., Agan, A., Machado, A.R., Argüelles-Moyao, A., Detheridge, A., de Meiras-Otoni, A., Verbeken, A., Dutta, A.K., Cui, B.K., Pradeep, C.K., **Marín, C.**, Stanton, D., Gohar, D., Wanasinghe, D.N., Otsing, E., Aslani, F., Griffith, G.W., Lumbsch, T.H., Grossart, H.P., Masigol, H., Timling, I., Hiiesalu, I., Oja, J., Kupagme, J.Y., Geml, J., Alvarez-Manjarrez, J., Ilves, K., Loit, K., Adamson, K., Nara, K., Küngas, K., Rojas-Jimenez, K., Bitenieks, K., Irinyi, L., Nagy, L.G., Soonvald, L., Zhou, L.W., Wagner, L., Aime, M.C., Öpik, M., Mujica, M.I., Metsoja, M., Ryberg, M., Vasar, M., Murata, M., Nelsen, M.P., Cleary, M., Samarakoon, M.C., Doilom, M., Bahram, M., Hagh-Doust, N., Dulya, O., Johnston, P., Kohout, P., Chen, Q., Tian, Q., Nandi, R., Amiri, R., Perera, R.H., dos Santos Chikowski, R., Mendes-Alvarenga, R.L., Garibay-Orijel, R., Gielen, R., Phookamsak, R., Jayawardena, R.S., Rahimlou, S., Karunarathna, S.C., Tibpromma, S., Brown, S.P., Sepp, S.K., Mundra, S., Luo, Z.H., Bose, T., Vahter, T., Netherway, T., Yang, T., May, T., Varga, T., Li, W., Matos Coimbra, V.R., Targino de Oliveira, V.R., de Lima, V.X., Mikryukov, V.S., Lu, Y., Matsuda, Y., Miyamoto, Y., Kõljalg, U., Tedersoo, L. 2021. Correction to: FungalTraits: a user friendly traits database of fungi and fungus-like stramenopiles. *Fungal Diversity* 107: 129-132. DOI: <https://doi.org/10.1007/s13225-021-00470-0>
- **Marín, C.**, García-Merchán, V.H., Arbeláez-Moreno, J.D., Ochoa-Berrío, E.C., Martínez-Rincón, D., D'Elía, G. 2021. Effects of academic degree and discipline on religious and evolutionary views in Chile and Colombia. *Zygon: Journal of Religion and Science* 56(1): 54-74. DOI: <https://doi.org/10.1111/zygo.12664>
- **Marín, C.** 2021. Spatial and density-dependent multilevel selection on weed-infested maize. *Genetic Resources and Crop Evolution* 68(3): 885-897. DOI: <https://doi.org/10.1007/s10722-020-01031-1>
- Guerra, C.A., Bardgett, R.D., Caon, L., Crowther, T.W., Delgado-Baquerizo, M., Montanarella, L., Navarro, L.M., Orgiazzi, A., Singh, B.K., Tedersoo, L., Vargas-Rojas, R., Briones, M.J.I., Buscot, F., Cameron, E.K., Cesarz, S., Chatzinotas, A., Cowan, D.A., Djukic, I., van den Hoogen, J., Lehmann, A., Maestre, F.T., **Marín, C.**, Reitz, T., Rillig, M.C., Smith, L.C., de Vries, F.T., Weigelt, A., Wall, D.H., Eisenhauer, N. 2021. Tracking, targeting, and conserving soil biodiversity. *Science* 371(6526): 239-241. DOI: <https://doi.org/10.1126/science.abd7926>
- **Marín, C.**, Kohout, P. 2021. Response of soil fungal ecological guilds to global changes. *New Phytologist* 229(2): 656-658. DOI: <https://doi.org/10.1111/nph.17054>
- *- **Marín, C.**, Rojas, C. 2020. Early responses of soil health indicators to organic amendments and plant establishment at a fire affected sclerophyllous forests. *Agro Sur* 48(2): 17-27. DOI: <https://doi.org/10.4206/agrosur.2020.v48n2-03>

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- Ávila-Salem, M.E., Montesdeoca, F., Orellana, M., Pacheco, K., Becerra, N., **Marín, C.**, Borie, F., Aguilera, P., Cornejo, P. 2020. Soil biological properties and arbuscular mycorrhizal fungal communities of representative crops established in the Andean Region from Ecuadorian Highlands. *Journal of Soil Science and Plant Nutrition* 20(4): 2156-2163. DOI: <https://doi.org/10.1007/s42729-020-00283-1>
- Vallejos-Torres, G., Arévalo, L.A., Ríos, O., Cerna, A., **Marín, C.** 2020. Propagation of rust-tolerant *Coffea arabica* L. plants by sprout rooting in microtunnels. *Journal of Soil Science and Plant Nutrition* 20(3): 933-940. DOI: <http://dx.doi.org/10.1007/s42729-020-00180-7>
- Guerra, C.A., Heintz-Buschart, A., Sikorski, J., Chatzinotas, A., Guerrero-Ramírez, N., Cesarz, S., Beaumelle, L., Rillig, M.C., Maestre, F.T., Delgado-Baquerizo, M., Buscot, F., Overmann, G., Phillips, H.R.P., Winter, M., Wubet, T., Küsel, K., Bardgett, R.D., Cameron, E.K., Cowan, D., Grebenc, T., **Marín, C.**, Orgiazzi, A., Singh, B.K., Wall, D.H., Eisenhauer, N. 2020. Blind spots in global soil biodiversity and ecosystem function research. *Nature Communications* 11: 3870. DOI: <https://doi.org/10.1038/s41467-020-17688-2>
- **Marín, C.** 2020. Fight prejudice at all levels: from airports to conferences. *Nature* 583(7815): 202. DOI: <http://dx.doi.org/10.1038/d41586-020-02039-4>
- De Moura, J.B., de Souza, R.F., Vieira Junior, W.G., Lima, I.R., Brito, G.H.M., **Marín, C.** 2019. Arbuscular mycorrhizal fungi associated with bamboo under Cerrado Brazilian vegetation. *Journal of Soil Science and Plant Nutrition* 19(4): 954-962. DOI: <http://dx.doi.org/10.1007/s42729-019-00093-0>
- Mujica, M.I., Bueno, C.G., Duchicela, J., **Marín, C.** 2019. Strengthening mycorrhizal research in South America. *New Phytologist* 224(2): 563-567. DOI: <http://dx.doi.org/10.1111/nph.16105>
- *- Bonilla-Muñoz, V.H., **Marín, C.** 2018. Shading light into the elephant: The case of the Chilean bread-wheat eco-agrifood system. *Agro Sur* 46(2): 7-9. DOI: <http://dx.doi.org/10.4206/agrosur.2018.v46n2-03>
- *- **Marín, C.**, Torres, D., Furci, G., Godoy, R., Palfner, G. 2018. Estado del arte de la conservación del reino Fungi en Chile. *Biodiversidad* 7: 98-115.
- *- **Marín, C.** 2018. Delirios y estereotipos racionalistas en ciencia: cómo combatirlos desde la consiliencia. *Konvergencias, filosofía y culturas en diálogo* 27: 59-75.
- *- **Marín, C.** 2018. Conceptos fundamentales en ecología de hongos del suelo: una propuesta pedagógica y de divulgación. *Boletín Micológico* 33(1): 32-56. DOI: <http://dx.doi.org/10.22370/bolmicol.2018.33.1.1168>
- *- **Marín, C.**, Valenzuela, E., Godoy, R., Palfner, G. 2018. Diversity and growth-effects of ectomycorrhizal fungi of a *Nothofagus pumilio* forest in the Andes of Southern Chile. *Boletín Micológico* 33(1): 9-20. DOI: <http://dx.doi.org/10.22370/bolmicol.2018.33.1.1164>
- **Marín, C.** 2018. Astronomy was his undoing: why a Colombian pioneer got shot. *Nature* 558(7708): 30. DOI: <http://dx.doi.org/10.1038/d41586-018-05341-4>
- **Marín, C.**, Godoy, R., Valenzuela, E., Schlöter, M., Wubet, T., Boy, J., Gschwendtner, S. 2017. Functional land-use change effects on soil fungal communities on Chilean temperate rainforests. *Journal of Soil Science and Plant Nutrition* 17(4): 985-1002. DOI: <http://dx.doi.org/10.4067/S0718-95162017000400011>
- **Marín, C.**, Aguilera, P., Oehl, F., Godoy, R. 2017. Factors affecting arbuscular mycorrhizal fungi of Chilean temperate rainforests. *Journal of Soil Science and Plant Nutrition* 17(4): 966-984. DOI: <http://dx.doi.org/10.4067/S0718-95162017000400010>
- Godoy, R., Silva-Flores, P., Aguilera, P., **Marín, C.** 2017. Microbial Interactions in the plant-soil continuum: Research results presented at the Workshop “Mycorrhizal Symbiosis in the Southern Cone of South America”. *Journal of Soil Science and Plant Nutrition* 17(4): 1-3.
- Bueno, C.G., **Marín, C.**, Silva-Flores, P., Aguilera, P., Godoy, R. 2017. Think globally, research locally: emerging opportunities for mycorrhizal research in South America. *New Phytologist* 215(4): 1306-1309. DOI: <https://doi.org/10.1111/nph.14709>

- Aguilera, P., **Marín, C.**, Oehl, F., Godoy, R., Borie, F., Cornejo, P.E. 2017. Selection of aluminum tolerant cereal genotypes strongly influences the arbuscular mycorrhizal fungal communities in an acidic Andosol. *Agriculture, Ecosystems and Environment* 246: 86-93. DOI: <https://doi.org/10.1016/j.agee.2017.05.031>
- **Marín, C.**, Aguilera, P., Cornejo, P., Godoy, R., Oehl, F., Palfner, G., Boy, J. 2016. Arbuscular mycorrhizal assemblages along contrasting Andean forests of southern Chile. *Journal of Soil Science and Plant Nutrition* 16(4): 916-929. DOI: <http://dx.doi.org/10.4067/S0718-95162016005000065>
- **Marín, C.** 2016. The levels of selection debate: taking into account existing empirical evidence. *Acta Biológica Colombiana* 21(3): 467-472. DOI: <http://dx.doi.org/10.15446/abc.v21n3.54596>
- **Marín, C.**, D'Elía, G. 2016. Academic Degree and Discipline Affect Religious Beliefs and Evolution Acceptance: Survey at a Chilean University. *Zygon: Journal of Religion and Science* 51(2): 277-292. DOI: <http://dx.doi.org/10.1111/zygo.12258>
- *- **Marín, C.** 2015. Selección Multinivel: historia, modelos, debates, y principalmente, evidencias empíricas. *eVOLUCIÓN: Revista de la Sociedad Española de Biología Evolutiva* 10(2): 51-70.
- **Marín, C.**, Weiner, J. 2014. Effects of density and sowing pattern on weed suppression and grain yield in three varieties of maize under high weed pressure. *Weed Research* 54(5): 467-474. DOI: <http://dx.doi.org/10.1111/wre.12101>

Non-indexed articles

- **Marín, C.** 2022. Nancy C. Johnson interview: Mycorrhizal ecology, happiness, lessons to students, multilevel selection, and the “mutualism–parasitism continuum”. *IMS Newsletter* 3(2): 11-15.
- **Marín, C.** 2022. Editorial Vol. 3 Issue 2: ICOM11 and more. *IMS Newsletter* 3(2): 2-3.
- **Marín, C.**, Plett, J.M., van der Heijden, M.G.A. 2022. Editorial: upcoming ICOM11 and more. *IMS Newsletter* 3(1): 2-4.
- **Marín, C.**, van der Heijden, M.A.G. 2021. Editorial: Vol 2, Issue 3 (2021). *IMS Newsletter* 2(3): 2-3.
- **Marín, C.**, van der Heijden, M.A.G. 2021. Editorial: lets legislate on soil biodiversity! *IMS Newsletter* 2(2): 2-5.
- Van der Heijden, M.A.G., **Marín, C.**, Martin, F. 2021. Editorial. *IMS Newsletter* 2(1): 2-3.
- **Marín, C.**, van der Heijden, M.G.A. 2020. Global soil biodiversity, ecosystem multifunctionality, and the mycorrhizal symbiosis. *IMS Newsletter* 1(3): 8-11.

Preprints

- Tedersoo, L., Mikryukov, V., Zizka, A., Bahram, M., Hagh-Doust, N., Anslan, S., Prylutskyi, O., Delgado-Baquerizo, M., Maestre, F.T., Pärn, J., Öpik, M., Moora, M., Zobel, M., Espenberg, M., Mander, Ü., Khalid, A.N., Corrales, A., Agan, A., Vasco-Palacios, A.M., Saitta, A., Rinaldi, A.C., Verbeken, A., Sulistyo, B.P., Tamgnoue, B., Furneaux, B., Duarte Ritter, C., Nyamukondiwa, C., Sharp, C., **Marín, C.**, Gohar, D., Klavina, D., Sharmah, D., Qin Dai, D., Nouhra, E., Machteld Biersma, E., Rähn, E., Cameron, E.K., de Crop, E., Otsing, E., Davydov, E.A., Albornoz, F.E., Brearley, F.Q., Buegger, F., Zahn, G., Bonito, G., Hiiesalu, I., Barrio, I.C., Heilmann-Clausen, J., Ankuda, J., Kupagme, J.Y., Maciá-Vicente, J.G., Djeugap Fovo, J., Geml, J., Alatalo, J.M., Alvarez-Manjarrez, J., Pöldmaa, K., Runnel, K., Adamson, K., Bråthen, K.A., Pritsch, K., Tchan, K.I., Armolaitis, K., Hyde, K.D., Newsham, K.K., Panksep, K., Lateef, A.A., Tiirmann, L., Hansson, L., Lamit, L.J., Saba, M., Tuomi, M., Gryzenhout, M., Bauters, M., Piepenbring, M., Wijayawardene, N., Yorou, N.S., Kurina, O., Mortimer, P.E., Meidl, P., Kohout, P., Nilsson, R.H., Puusepp, R., Drenkhan, R., Garibay-Orijel, R., Godoy, R., Alkahtani, S., Rahimlou, S., Dudov, S.V., Pöhlme, S., Ghosh, S., Mundra, S., Ahmed, T., Netherway, T., Henkel, T.W., Roslin, T., Nteziriyayo, V., Fedosov, V.E., Onipchenko, V.G., Yasanthika, W.A.E., Woon Lim, Y., Soudzilovskaia, N.A., Antonelli, A., Kõljalg, U., Abarenkov, K. 2022. Towards understanding diversity, endemism and global change vulnerability of soil fungi. *BioRxiv*, 2022.03.17.484796. DOI: <https://doi.org/10.1101/2022.03.17.484796>
- **Marín, C.**, Rubio, J., Godoy, R. 2021. Chilean blind spots in soil biodiversity and ecosystem function research. *BioRxiv*, 2021.06.24.449754. DOI: <https://doi.org/10.1101/2021.06.24.449754>
- Guerra, C.A., Heintz-Buschart, A., Sikorski, J., Chatzinotas, A., Guerrero-Ramírez, N., Cesarz, S., Beaumelle, L., Rillig, M.C., Maestre, F.T., Delgado-Baquerizo, M., Buscot, F., Overmann, G., Phillips, H.R.P., Winter, M., Wubet, T., Küsel, K., Bardgett, R.D., Cameron, E.K., Cowan, D., Grebenc, T., **Marín, C.**, Orgiazzi, A., Singh, B.K., Wall, D.H., Eisenhauer, N. 2019. Blind spots in global soil biodiversity and ecosystem function research. *BioRxiv*, 774356. DOI: <https://doi.org/10.1101/774356>

Book chapters

- Godoy, R., **Marín, C.** 2019. Mycorrhizal studies in temperate rainforests of Southern Chile. In: Pagano, M., Lugo, M. (eds.). *Mycorrhizal Fungi in South America*. Springer, Fungal Biology Series. Pp. 315-341. DOI: https://doi.org/10.1007/978-3-030-15228-4_16
- **Marín, C.**, Bueno, C.G. 2019. A systematic review on South American and European mycorrhizal research: is there a need for scientific symbiosis? In: Pagano, M., Lugo, M. (eds.). *Mycorrhizal Fungi in South America*. Springer, Fungal Biology Series. Pp. 97-110. DOI: https://doi.org/10.1007/978-3-030-15228-4_5

Technical reports

- FAO, ITPS, GSBI, SCBD, EC. 2020. *State of knowledge of soil biodiversity - Status, challenges and potentialities, Report 2020*. Rome, FAO. DOI: <https://doi.org/10.4060/cb1928en>
- Brito Carrasco, B., Fuenzalida González, P., **Marín, C.**, Pinochet Cobos, C., Santana Valenzuela, J., Rojas Alvarado, C. 2019. *Revista de divulgación Proyecto FPA 6-RE-002-2018: Recuperación de Salud de Suelos y su Implicancia en el Restablecimiento*

de Bosque Nativo Incendiado en Zonas del Secano de la VI Región. Fondo de Protección Ambiental, Ministerio del Medio Ambiente, Gobierno de Chile. 45 p.

- Food and Agriculture Organization of the United Nations. 2018. *Global Forum on Food Security and Nutrition*, Report of activity No. 149. 11 p. DOI: <https://doi.org/10.13140/RG.2.2.18056.06406>

Proceedings

- García, M., **Marín, C.**, García, F., Rojas, C. 2021. Recovering soil ecosystem services and functions at a burned native forest in the Mediterranean zone of central Chile by the use of organic amendments. In: FAO (Ed.), *Keep soil alive, protect soil biodiversity – Global Symposium on Soil Biodiversity*, 19–22 April 2021, Proceedings (pp. 441-447). Rome, Italy: FAO. <https://doi.org/10.4060/cb7374en>

- **Marín, C.** 2021. Knowledge of biodiversity and ecosystem services of South American mycorrhiza through research networking. In: FAO (Ed.), *Keep soil alive, protect soil biodiversity – Global Symposium on Soil Biodiversity*, 19–22 April 2021, Proceedings (pp. 68-74). Rome, Italy: FAO. <https://doi.org/10.4060/cb7374en>

Science outreach articles

- **Marín, C.**, Gutjhar, C. 2022. What we are reading in July, 2022. South American Mycorrhizal Research Network. [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 UCh. [Online.](#)

- **Marín, C.** 2018. Los gonfoterios alteraron la vegetación chilena del Pleistoceno tardío. Facultad de Ciencias UCh. [Online.](#)

- **Marín, C.** 2018. Entendiendo el origen de las especies (y de la cerveza) en un tubo de ensayo. Postgrados Facultad de Ciencias UCh. [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.** 2017. Leandro Paulino, proyecto EarthShape: cómo se origina el suelo. Chile Hace Ciencia. [Online.](#)

- **Marín, C.** 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.** 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.

Books editing (Ed.)

- **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

- 2022 – present. *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>
- 2022 – present. 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>
- 2021 – present. Editorial Board, *Journal of Sustainable Agriculture and Environment*. ISSN:2767-035X. <https://onlinelibrary.wiley.com/journal/2767035x>
- 2020 – present. Newsletter Editor, 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”.

Reviewer for journals (n=123)

BioScience (2), *Journal of Soil Science and Plant Nutrition* (14), *Microbiome* (4), *Applied Soil Ecology* (10), *Fungal Ecology* (2), *Plant and Soil* (3), *Symbiosis* (1), *MycoKeys* (1), *Current Research Journal of Social Sciences and Humanities* (1), *Antonie van Leeuwenhoek* (1), *PeerJ* (1), *Forest Ecology and Management* (3), *New Phytologist* (2), *Biodiversity Data Journal* (1), *Data* (3), *Frontiers in Microbiology* (3), *Phytotaxa* (1), *Land* (16), *Ecosistemas* (2), *Bosque* (1), *Biocatalysis and Agricultural Biotechnology* (1), *PLOS One* (1), *Zygon: Journal of Religion and Science* (2), *Chiang Mai Journal of Science* (1), *Sensors* (1), *Frontiers in Plant Science* (1), *Mycorrhiza* (2), *Journal of the Science of Food and Agriculture* (2), *International Journal of Environmental Research and Public Health* (3), *Microbial Ecology* (3), *Journal of Ecology* (3), *Sustainability* (6), *Remote Sensing* (2), *Journal of Forestry Research* (2), *Atmosphere* (2), *Agriculture* (1), *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* (1), *Venoms and Toxins* (1), *Energies* (1), *Journal of Sustainable Agriculture and Environment* (1), *Processes* (1), *Frontiers in Ecology and Evolution* (2), *Agronomy* (2), *Journal of Archaeological Science* (2), *Journal of Marine Science and Engineering* (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).

Scientific conferences participation

- 2012 – 2022. 60 participations (32 as main presenter – 5 as keynote speaker – 23 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.
 - Keynote talks:
- **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 – 2022. 72 invited conferences (40 on outreach) on: Chile, Colombia, Estonia, United States, Puerto Rico, Brazil, Germany, Czech Republic, Burkina Faso, Switzerland.

Scholarships, benefits and prizes (excluding projects)

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

Research projects

- April 2022 – *presnete*. Global mapping of mycorrhizal networks; Society for the Protection of Underground Networks (SPUN). **Associate Researcher**, Universidad Santo Tomás.
- November 2021 - November 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.

Thesis supervision and co-supervision

- Rubio Poblete, J.C. 2022. “Meta-análisis sobre biodiversidad y funciones ecosistémicas del suelo en Chile”. Geography Thesis, Austral University of Chile, Valdivia, Chile. Advisor: Godoy, R. **Co-advisor: 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. Advisor: Godoy, R. **Co-advisor: Marín, C.**

Thesis opposing committee

- Echeverry Hernández, S. 2021. “Ecological and molecular topics of arbuscular mycorrhizal fungal communities in tropical forests”. Doctorate in Sciences -Biology Thesis, University of Caldas, Manizales, Colombia. Advisor: Posada Almanza, R.H. Co-advisor: Rodríguez Villate, A.
- Schapheer Carrasco, C. 2019. “Composición y diversidad filogenética del ensamblaje 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. Advisor: Scherson Vicencio, R. Co-advisor: Fuentes Espoz, J.P.

Awards

- 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.

Organization of scientific events and courses

- 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. 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 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

- 2020 – 2021. Participation as Partner (South American Mycorrhizal Research Network) on the 8th and 9th 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 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 – 2022. 156 printed and online press reports on media from Colombia, Chile, Denmark, United States, Germany, Estonia, Peru, Brazil, Spain, United Kingdom, Australia, China, Holland.

Personal references

Prof. Dr. Roberto Godoy. Austral University of Chile. rgodoy@uach.cl
Res. Prof. Dr. Maarja Öpik. University of Tartu. maarja.opik@ut.ee
Dr. C. Guillermo Bueno. University of Tartu. cgbuenog@gmail.com