

DOCTORADO EN CIENCIAS AGROALIMENTARIAS

**Francisco E. Fontúrbel**

**Publicaciones (2019- presente)**

1. Bohada-Murillo, M., **F.E. Fontúrbel** & G.J. Castaño-Villa. 2023. Tropical forest birds after 20 years of the establishment of a reservoir: Extinction, colonization, and recolonization events. *Global Ecology and Conservation* **48**: e02754. Q1.
2. **Fontúrbel, F.E.**, H. González-Ancin, N. Rojas-Hernández & C. Vega-Retter. 2023. Effects of selective logging on genetic diversity and population structure of a keystone mistletoe. *Population Ecology*, Q3.
3. Vargas-Daza, A.M. J.F. Betancurt-Grisales, Gabriel J. Castaño-Villa & **F.E. Fontúrbel**. The importance of old secondary forests for understory birds in the tropical Andes. *Global Ecology and Conservation* **47**: e02658. Q1.
4. Ballarin, C.S., F.W. Amorim, D.M. Watson & **F.E. Fontúrbel**. 2023. The use and abuse of keystone plant species in restoration practices of terrestrial ecosystems. *Restoration Ecology*, Q2.
5. Ojeda, S., M. Arancibia, F. Gómez, I.B. Sepúlveda, J.I. Orellana & **F.E. Fontúrbel**. 2023. Spatial aggregation patterns in four mistletoe species: ecological and environmental determinants. *Plant Biology* **25** (7): 1186-1195. Q1.
6. Celis-Diez, J.L., C.B. García, J.J. Armesto, S. Abades, M.P.D. Garratt & **F.E. Fontúrbel**. 2023. Wild floral visitors are more important than honeybees as pollinators of avocado crops. *Agronomy* **13**: 1722. Q1.
7. Vargas-Daza, A.M., J.F. Betancurt-Grisales, L.J. Cardona-Salazar, Y.A. Benavides-Ossa, **F.E. Fontúrbel** & G.J. Castaño-Villa. 2023. Assessing bird diversity in Neotropical rainforests: A comparative study of camera traps and mist nets reveals complementary sampling approaches. *Ornithological Applications* **125**: 7. Q1.
8. Pincheira, J., J. Villarroel, J.I. Orellana & **F.E. Fontúrbel**. 2023. A tale of two mistletoes: phenology and fauna associated with two sympatric species. *Botany*, Q3.
9. Soto, E.F., R.A. Pozo, P. Díaz-Sieffer, J.L. Celis-Diez & **F.E. Fontúrbel**. 2023. Vertebrate diversity in productive landscapes in Mediterranean Chile: The role of neighboring natural vegetation. *Global Ecology and Conservation* **45**: e02508. Q1.
10. Jaques, S.A., C. Jofré-Pérez, M.M. Murúa, L. Vieli & **F.E. Fontúrbel**. 2023. Crop-specific effects of pan-trap sampling of potential pollinators as influenced by trap color and location. *Agronomy* **13**: 552. Q1.
11. Cordero, S., F. Gálvez & **F.E. Fontúrbel**. 2023. Ecological impacts of exotic species on native seed dispersal systems: a systematic review. *Plants* **12**: 261. Q1.

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12. **Fontúrbel, F.E.**, J. Villarroel & J.I. Orellana. 2023. With a little help from my friends: Hyperparasitism allows a generalist mistletoe to expand habitat use. *Ecology* **104** (2): e3919. Q1.
13. **Fontúrbel, F.E.**, I.B. Sepúlveda, G. Muschett, G.O. Carvallo, M.M. Murúa & L. Vieli. 2023. Do exotic plants and flower colour facilitate bumblebee invasion? Insights from citizen science data. *Flora* 298: 152200. Q2.
14. Díaz-Siefer, P., **F.E. Fontúrbel**, M. Berasaluce, C. Huenchuleo, R. Lal, P. Mondaca & J.L. Celis-Diez. 2022. The market-society-policy nexus in sustainable agriculture. *Environment, Development and Sustainability*. Q2.
15. Watson, D.M., R.C. McLellan & **F.E. Fontúrbel**. 2022. Functional roles of parasitic plants in a warming world. *Annual Review of Ecology, Evolution, and Systematics* 53: 25-45. Q1.
16. Gajardo-Rojas, M., A.A. Muñoz, J. Barichivich, K. Klock-Barría, E.M. Gayo, **F.E. Fontúrbel**, M. Olea, C.M. Lucas & C. Veas. 2022. Declining honey production and beekeeper adaptation to climate change in Chile. *Progress in Physical Geography* 46: 737-756. Q2.
17. Cordero, S., M. López-Aliste, F. Gálvez & **F.E. Fontúrbel**. 2022. Herbarium collection of the Pontificia Universidad Católica de Valparaíso (PUCV), Chile. *Biodiversity Data Journal* 10: e90591. Q3.
18. **Fontúrbel, F.E.**, J.F. Betancurt-Grisales, A.M. Vargas-Daza & G.J. Castaño-Villa. 2022. Effects of habitat degradation on bird functional diversity: A field test in the Valdivian rainforest. *Forest Ecology and Management* 522: 120466. Q1.
19. Boyd, R.J., M.A. Aizen, R.M. Barahona-Segovia, L. Flores-Prado, **F.E. Fontúrbel**, T.M. Francoy, M. López-Aliste, L. Martínez, C.L. Morales, J. Ollerton, O.L. Pescott, G.D. Powney, A.M. Saraiva, R. Schmucki, E.E. Zattara & C.C. Carvell. 2022. Inferring trends in pollinator distributions across the Neotropics from publicly available data remains challenging despite mobilisation efforts. *Diversity and Distributions* 28: 1404-1405. Q1.
20. Medel, R. M. López-Aliste & **F.E. Fontúrbel**. 2022. Hummingbird-plant interactions in Chile: An ecological review of the available evidence. *Avian Research* 13: 100051. Q2.
21. Ballarin, C.S., L. Hachuy-Filho, **F.E. Fontúrbel** & F.W. Amorim. 2022. Density-dependent effects on the reproductive outcome of a native tree at tropical restored habitats. *Forest Ecology and Management* 520: 120391. Q1.
22. Rodríguez-Gómez, G.B., N.R. Villaseñor, J.I. Orellana, R.A. Pozo & **F.E. Fontúrbel**. 2022. A multi-scale assessment of habitat disturbance on forest animal abundance in South American temperate rainforests. *Forest Ecology and Management* 520: 120360. Q1.
23. Molina-Marin, D.A., J.C. Rodas-Rua, C.E. Lara, F.A. Rivera-Páez, **F.E. Fontúrbel** & G.J. Castaño-Villa. 2022. Effects of landscape configuration on body condition of migratory and resident Tropical birds. *Diversity* 14: 432. Q2.

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24. Salim, J.A., A.M. Saraiva, P.F. Zermoglio, K. Agostini, M. Wolowski, D.P. Drucker, F.M. Soares, Pedro J. Bergamo, I.G. Varassin, L. Freitas, M.M. Maués, A.R. Rech, A.K. Veiga, A.L. Acosta, A.C. Araujo, A. Nogueira, B. Blochtein, B.M. Freitas, B.C. Albertini, C. Maia-Silva, C.E.P. Nunes, C.S.S. Pires, C.F. dos Santos, E.P. Queiroz, E.A. Cartolano, F.F. de Oliveira, F.W. Amorim, **F.E. Fontúrbel**, G.V. da Silva, H. Consolaro, I. Alves-dos-Santos, I.C. Machado, J.S. Silva, K.P. Aleixo, L.G. Carvalheiro, M.A. Rocca, M. Pinheiro, M. Hrcir, N.S. Streher, P.A. Ferreira, P.M.C. de Albuquerque, P.K. Maruyama, R.C. Borges, T.C. Giannini & V.L.G. Brito. 2022. Data standardization of plant-pollinator interactions. *GigaScience* 11: 1-15, Q1.
25. Olmos-Moya, N., P. Díaz-Sieffer, R.A. Pozo, **F.E. Fontúrbel**, B. Lavandero, S. Abades & J.L. Celis-Diez. 2022. The use of cavity-nesting wild birds as agents of biological control in vineyards of Central Chile. *Agriculture, Ecosystems and Environment* 334: 107975. Q1.
26. Muschett, G. & **F.E. Fontúrbel**. 2022. A comprehensive catalogue of plant-pollinator interactions for Chile. *Scientific Data* 9: 78. Q1.
27. **Fontúrbel, F.E.**, L.M. Franco, F. Bozinovic, J.F. Quintero-Galvis, C. Mejías, G.C. Amico, M.S. Vazquez, P. Sabat, J.C. Sánchez-Hernández, D.M. Watson, P. Saenz-Agudelo & R.F. Nespolo. 2022. The ecology and evolution of the monito del monte, a relict species from the southern South America temperate forests. *Ecology and Evolution* 12: e8645. Q2.
28. **Fontúrbel, F.E.**, G.B. Rodríguez-Gómez, J.I. Orellana, J. Cortés-Miranda, N. Rojas-Herrera & C. Vega-Retter. 2022. Geographic context outweighs habitat disturbance effects in explaining mistletoe population genetic differentiation at a regional scale. *Molecular Ecology* 31: 1389-1402. Q1.
29. González-Ancín, H., M. Spinola, J.M. Mora-Benavides, J.C. Sáenz, A. Paillacar & **F.E. Fontúrbel**. 2022. Intermediate levels of wood extraction may facilitate coexistence of an endemic arboreal marsupial and indigenous communities. *Oryx* 56: 442-450. Q2.
30. Díaz-Sieffer, P., N. Olmos-Moya, **F.E. Fontúrbel**, B. Lavandero, R.A. Pozo & J.L. Celis. 2022. Bird-mediated effects of pest control services on crop productivity: a global synthesis. *Journal of Pest Science* 95: 567-576. Q1.
31. Fernández, V.P., G.B. Rodríguez-Gómez, D.A. Molina-Marín, G.J. Castaño-Villa & **F.E. Fontúrbel**. 2022. Effects of landscape configuration on the occurrence and abundance of an arboreal marsupial from the Valdivian rainforest. *Revista Chilena de Historia Natural* 95: art 3. Q3.
32. Nespolo, R.F., **F.E. Fontúrbel**, C. Mejias, R. Contreras, P. Gutierrez, E. Oda, P. Sabat, C. Hambly, J.R. Speakman & F. Bozinovic. 2022. A mesocosm experiment in ecological physiology: The modulation of energy budget in a hibernating marsupial under chronic caloric restriction. *Physiological and Biochemical Zoology* 95 (1): 66-81. Q1.
33. Cordero, S., F. Gálvez & **F.E. Fontúrbel**. 2021. Multiple anthropogenic pressures lead to seed dispersal collapse of the southernmost palm *Jubaea chilensis*. *Frontiers in Ecology and Evolution* 9: 719566. Q2.

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34. **Fontúrbel, F.**, Murúa, M., Vieli, L. 2021. Invasion dynamics of the European bumblebee *Bombus terrestris* in the southern part of South America. *Scientific Reports*, 11: 15306. Q1.
35. Bohada, M., Castaño, G., **Fontúrbel, F.** 2021. Effects of dams on vertebrate diversity: A global analysis. *Diversity*, 13: 528. Q2.
36. Velásquez, V., Betancurt, J., Varga, A., Lara, C., Rivera, F., **Fontúrbel, F.**, Castaño, G. 2021. Bird functional diversity in agroecosystems and secondary forests of the tropical andes. *Diversity*, 13: 493. Q2.
37. Riffo, V., Osorio, F., **Fontúrbel, F.** 2021. Habitat disturbance alters species richness, composition, and turnover of the bryophyte community in a temperate rainforest. *Forest Ecology and Management*, 496: 119467. Q1.
38. López, M., Flores, L., Ruz, L., Sepúlveda, Y., Rodríguez, S., Saraiva, A., **Fontúrbel, F.** 2021. Wild bees of Chile: a database on taxonomy, sociality, and ecology. *Ecology*, 102: e03377. Q1.
39. Cuadra, J., Vizentin, J., **Fontúrbel, F.** 2021. An exotic magnet plant alters pollinator abundance and behavior: a field test with a native mistletoe. *Biological Invasions*, 23: 2515-2525. Q1.
40. Nespolo, R., Mejías, C., Espinoza, A., Quintero, J., Rezende, E., **Fontúrbel, F.**, Bozinovic, F. 2021. Heterothermy as the Norm, Homeothermy as the Exception: Variable Torpor Patterns in the South American Marsupial *Monito del Monte* (*Dromiciops gliroides*). *Frontiers in Physiology*, 12: 682394. Q1.
41. Fernández, V., **Fontúrbel, F.** 2021. Temporal variation of daily activity on pollinator and frugivorous birds simultaneously interacting with a specialized mistletoe. *Community Ecology*, 22: 217-223. Q4.
42. **Fontúrbel, F.**, Ferrer, P., Vega, C., Medel, R. 2021. Accounting for relatedness and spatial structure to improve plant phenotypic selection in the wild. *Evolutionary Ecology*, 35: 15-26. Q2.
43. González, H., Spínola, M., Mora, J., Sáenz, J., Paillacar, A., **Fontúrbel, F.** 2021. Intermediate levels of wood extraction may facilitate coexistence of an endemic arboreal marsupial and Indigenous communities. *Oryx*, aceptado. Q2.
44. Díaz, P., Olmos-, N., **Fontúrbel, F.**, Lavandero, B., Pozo, R., Celis, J. 2021. Bird-mediated effects of pest control services on crop productivity: a global synthesis. *Journal of Pest Science*, aceptado. Q1.
45. **Fontúrbel, F.**, Osorio, F., Riffo, V., Carvalho, G., Rydin, H. 2021. Cryptic interactions revisited from ecological networks: Mosses as a key link between trees and hummingbirds. *Functional Ecology*, 35: 226-238. Q1.

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46. **Fontúrbel, F.**, Orellana, J., Rodríguez, G., Tabilo, C., Castaño, G. 2021. Habitat disturbance can alter forest understory bird activity patterns: A regional-scale assessment with camera-traps. *Forest Ecology and Management*, 479: 118618. Q1.
47. **Fontúrbel, F.**, Rodríguez, G., Fernández, N., García, B., Orellana, J., Castaño, G. 2020. Sampling understory birds in different habitat types using point counts and camera traps. *Ecological Indicators*, 119: 106863. Q2.
48. Cordero, S., Castaño, G., **Fontúrbel, F.** 2020. The best bang for the bucks: Rethinking global investment in biodiversity conservation. *Sustainability (Switzerland)*, 12: 9252. Q2.
49. **Fontúrbel, F.**, Osorio, F., Rizzo, V., Nuñez, M., Bastias, R., Carvallo, G. 2020. Mamma knows best: why a generalist hummingbird selects the less abundant moss for nest building. *Ecology*, 101: e03045. Q1.
50. Cardona, L., Benavides, Y., Vargas, A., Betancurt, J., Bohada, M., Martínez, E., Cardona, M., Busi, A., Tobón, W., Ortiz, M., Gómez, D., Álvarez, J., Molina, D., Rodas, J., Grisale, L., Velásquez, V., Salazar, L., Pineda D., Hoyos, A., Santisteban, R., Salazar, J., Orozco, G., Ramos, S., Gómez, G., Ospina, F., Estévez, J., Ossa, P., Rivera, F., Pérez, J., **Fontúrbel, F.**, Castaño, G. 2020. A morphological, reproductive, and molt phenology database for 379 bird species from the Colombian Tropical Andes. *Ecology*, 101: e03016. Q1.
51. González, A., Gómez, V., Ramírez, M., **Fontúrbel, F.** 2020. Meta-analysis of the differential effects of habitat fragmentation and degradation on plant genetic diversity. *Conservation Biology*, 34: 711-720. Q1.
52. Rodríguez, G., **Fontúrbel, F.** 2020. Regional-scale variation on *Dromiciops gliroides* occurrence, abundance, and activity patterns along a habitat disturbance gradient. *Journal of Mammalogy*, 101: 733-741. Q1.
53. Botto, C., Bacigalupo, A., Correa, J., **Fontúrbel, F.**, Cattán, P., Solari, A. 2020. Prevalence, infected density or individual probability of infection? Assessing vector infection risk in the wild transmission of Chagas disease. *Proceedings of the Royal Society B: Biological Sciences*, 287: 20193018. Q1.
54. Bohada, M., Castaño, G., **Fontúrbel, F.** 2020. The effects of forestry and agroforestry plantations on bird diversity: A global synthesis. *Land Degradation and Development*, 31: 646-654. Q1.
55. **Fontúrbel, F.** 2020. Mistletoes in a changing world: A premonition of a non-analog future? *Botany*, 98: 479-488. Q3.
56. Ortuño, M., Machtig, A., Chacón, M., Cuzmar, J., **Fontúrbel, F.** 2019. Spatial distribution of *Puya coerulea* lindl. In response to abiotic factors and accompanying species in the Río Clarillo national reserve. *Gayana - Botanica*, 76: 115-118. Q3.

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57. Castaño, G., Estevez, J., Guevara, G., Bohada, M., **Fontúrbel, F.** 2019. Differential effects of forestry plantations on bird diversity: A global assessment. *Forest Ecology and Management*, 440. 202-207. Q1.
58. Tejo, C., **Fontúrbel, F.** 2019. A vertical forest within the forest: millenary trees from the Valdivian rainforest as biodiversity hubs. *Ecology*, 100: e02584. Q1.
59. **Fontúrbel, F.**, Bruford, M., Salazar, D., Cortés, J., Vega, C. 2019. The hidden costs of living in a transformed habitat: Ecological and evolutionary consequences in a tripartite mutualistic system with a keystone mistletoe. *Science of the Total Environment*, 651: 2740-2748. Q1.
60. Oda, E., Rodríguez, G., **Fontúrbel, F.**, Soto, M., Nespolo, R. 2019. Southernmost records of dromiciops gliroides: Extending its distribution beyond the valdivian rainforest. *Gayana*, 83: 145-149. Q4.
61. Franco, L., **Fontúrbel, F.**, Guevara, G., Soto, M. 2019. Movement behavior of the Monito del monte (*Dromiciops gliroides*): New insights into the ecology of a unique marsupial. *Revista Chilena de Historia Natural*, 92: 8. Q2.
62. D'Elía, G., Jaksic, F., Bacigalupe, L., Bozinovic, F., Canto, J., Correa, C., **Fontúrbel, F.**, Lisón, F., Méndez, M., Nespolo, R., Opazo, J., Palma, R., Rau, J., Rodríguez, S., Rodríguez, E., Sabat, P., Vásquez, R., Victoriano, P. 2019. Suggestions to improve the chilean regulation of manipulation of terrestrial vertebrates in natural populations in the context of scientific research. *Gayana*, 83: 63-67. Q4.

### Proyectos con financiamiento externo últimos 5 años (adjudicado y/o ejecutado)

1. Trait convergence, genetic structure, and mutualist relationships among mistletoe species: studying the confounding demands of hosts and mutualists under a climate-change scenario.  
Financiamiento: FONDECYT Regular N°1210166  
Rol: Investigador responsable  
Duración: 2021-2025  
Año adjudicación: 2021
2. Ecological Intensification: Integrating knowledge of ecosystem services to promote sustainable agriculture in Chile.  
Financiamiento: Proyecto Anillo de Investigación en Ciencia y Tecnología (ACT192027)  
Rol: Investigador titular  
Duración: 2020-2023  
Año adjudicación: 2020
3. Elucidating the role of global warming on Vibrio- Phage Infection Networks (VPINs) and the abundance of specific Vibrio species.  
Financiamiento: FONDECYT Regular N°1200521

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Rol: Co-investigador  
Duración: 2020-2023  
Año adjudicación: 2020

4. Safeguarding pollination services in a changing world: theory into practice (SURPASS-2).  
Financiamiento: Proyecto NE/S011870/1  
Rol: Investigador responsable  
Duración: 2019-2021  
Año adjudicación: 2019
5. Patagonian Limit-of-life: environmental constraints on genetics and ecophysiology (LiLi).  
Financiamiento: Centros Basales ANID (NCN2021\_050)  
Rol: Investigador adjunto  
Duración: 2022-2025  
Año de adjudicación: 2022
6. National diagnosis of drought impacts on Chilean beekeeping: A basis for decision making and adaptation plans to climate change  
Financiamiento: ANID Fondo de investigación estratégica FSEQ210033  
Rol: Investigador asociado  
Duración: 2022  
Año de adjudicación: 2022
7. Elucidating bacteria-phage infection networks (BPINS) in Antarctic marine environments  
Financiamiento: Instituto Antártico Chileno (Rf-27-21)  
Duración: 2022-2025  
Año de adjudicación: 2022