
AINHOA MAGRACH

Basque Centre for Climate Change (BC3)
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Married | 1 child

RESEARCH PROFILE

I am an ecologist with a research emphasis on the effect of land use change on biodiversity, ecosystem functioning and the delivery of ecosystem services. Throughout my research career, I have worked in a wide variety of ecosystems, from tropical to temperate systems. This experience has provided me with a global perspective of the threats faced by forests and other natural ecosystems. My goal is to find ways to align economic development with ecosystem conservation within human-dominated landscapes.

FIVE MOST SIGNIFICANT PUBLICATIONS

Magrach, A., González-Varo, J.P, Boiffier, M., Vilà, M., Bartomeus, I. Honeybee spillover reshuffles pollinator diets and affects plant reproductive success. *Nature Ecology and Evolution* 1: 1299-1307.

Magrach A, Holzschuh A, Bartomeus I, Rundlöf M, Riedinger V, Wickens JB, Wickens VJ, Bommarco R, Potts SG, Smith HG, Steffan-Dewenter I, González-Varo JP, Vilà M (2017) Plant-pollinator networks in semi-natural grasslands are resilient to the loss of pollinators during blooming of mass-flowering crops. *Ecography*. 41:62-74.

Venter O, Sanderson EW, **Magrach A**, Allan J, Beher J, Jones K, Possingham H, Laurance WF, Wood P, Fekete BM, Levy MA, Watson JEM (2016) Sixteen years of change in the global terrestrial Human Footprint and implications for biodiversity conservation. *Nature Communications* 7, DOI:10.1038/ncomms12558

Magrach A, Senior R, Rogers A, Nurdin D, Benedick S, Laurance WF, Santamaría L, Edwards DP (2016) Selective logging in tropical forests decreases the robustness of liana-tree interaction networks to the loss of host tree species. *Proceedings of the Royal Society B* 283: 20153008

Magrach A, Laurance WF, Larrinaga AR, Santamaría L (2014) Meta-analysis of the effects of forest fragmentation on interspecific interactions. *Conservation Biology* 28:1342-1348. DOI: 10.1111/cobi.12304

EDUCATION

- 2011** **Ph.D., Ecology**
University of Santiago de Compostela, Spain
Thesis: Mutualistic interactions in fragmented landscapes.
Supervisors: Luis Santamaría, Asier R. Larrinaga & José Guitián
Qualification: *Summa cum laude* by unanimity & Best thesis award
- 2008** **M.Sc., Environmental Sciences**
University of Santiago de Compostela
Thesis: Study of the interaction between *Argyresthia conjugella* (Lepidoptera, Yponomeutidae) and *Sorbus aucuparia* (Rosaceae) in the north of the Iberian Peninsula: geographical variations and effect of altitude.
Supervisor: José Guitián
Qualification: Sobresaliente (highest mark in Spain)
- 2006** **University Specialist in Biostatistics**
University of Santiago de Compostela
- 2005** **B.Sc. Biology Honours with Distinction**
University of Santiago de Compostela
Thesis: Dispersal mutualisms in a fragmented landscape
Supervisor: José Guitián
-

ACADEMIC POSITIONS

- 2018-2023** **Ikerbasque Research Fellow**, Basque Centre for Climate Change (BC3)
- 2019** **Research Associate**, University of California Santa Cruz UCSC)
- 2016-2018** **Juan de la Cierva Incorporación Postdoctoral Fellow**
Basque Centre for Climate Change (BC3)
Research Project: Pollination services within agricultural landscapes
- 2015-2016** **Postdoctoral Research Fellow**
Estación Biológica de Doñana, EBD-CSIC
Research Project: Spatio-temporal changes in plant-pollinator network architecture due to the presence of mass-flowering crops
Supervisors: Montserrat Vilà, Ignasi Bartomeus
- 2013-2015** **ETH Foundation/Marie Curie Postdoctoral Fellow**
ETH Zurich
Research Project: An integrated approach to evaluating biodiversity, carbon storage and pollination services in a dynamic

landscape mosaic.
Supervisor: Jaboury Ghazoul

2012-2013 **Postdoctoral Research Fellow (Basque Government)**
School of Marine and Tropical Biology
James Cook University, Australia
Research Project: Effect of forest fragmentation on liana-tree interactions.
Supervisor: William F. Laurance

CAREER BREAKS

Maternity leave: 21/04/2017 – 07/09/2017

SCIENTIFIC PUBLICATIONS (supervised students)

Summary to Date

H-index: 16, i 10-index = 23, Number of citations: 1,111 (Google Scholar)

Papers in refereed journals: 33

First author papers: 14

Papers currently in review or preparation: 2

Non-peer reviewed publications: 2

In preparation or under review

36. Magrach, A., Molina, F.P., Bartomeus, I. Interaction network structure maximizes community-level plant reproduction success via niche complementarity. Submitted.

<https://www.biorxiv.org/content/10.1101/629931v1>

35. Magrach, A., Sanz, MJ. Environmental consequences of the alarming increase in the demand for “superfoods” worldwide. Submitted.

2019

34. Sobral, A., Magrach, A. (2019) Restaurando la funcionalidad de los ecosistemas: la importancia de las interacciones entre especies. *Ecosistemas*. Aceptada.

33. **Magrach, A.**, Champetier, A., Krishnan, S., Boreux, V., Ghazoul, J. Uncertainty in the value and opportunity costs of pollination services. *Journal of Applied Ecology*. <https://doi.org/10.1111/1365-2664.13399>.

32. Domisch, S., Kakouei, K., Martinez-Lopez, J., Bagstad, K.J., **Magrach, A.**, Balbi, S., Villa, F., Funk, A., Hein, T., Borgwardt, F., Hermoso, V., Jähnig, S.C., Langhans, S.D. (2019) Social equity shapes zone-selection: Balancing aquatic biodiversity conservation and ecosystem services delivery in the transboundary Danube River Basin. *Science of the Total Environment* 656: 797-807.

31. Funk, A., Martínez-López, J., Borgwardt, F., Trauner, D., Bagstad, K.J., Balbi, S., **Magrach, A.**, Villa, F., Hein, T. (2019) Identification of conservation and restoration priority areas in the Danube River based on the multi-functionality

of river-floodplain systems. *Science of the Total Environment*, 654: 763-777. DOI: 10.1016/j.scitotenv.2018.10.322.

30. Martínez-López, J., Bagstad, K.J., Balbi, S., **Magrach, A.**, Voigt, B., Athanasiadis, I., Pascual, M., Willcok, S., Villa, F. (2019) Towards globally customizable ecosystem service models. *Science of the Total Environment*, 650: 2325-2336.

2018

29. Campbell, M., Edwards, W., **Magrach, A.**, Alamgir, M., Porolak, G., Mohandass, D., Laurance, W.F. (2018) Edge disturbance drives liana abundance increase and alteration of liana-host tree interactions in tropical forest fragments. *Ecology and Evolution*. DOI: 10.1002/ece3.3959.
28. **Magrach A**, Holzschuh A, Bartomeus I, Rundlöf M, Riedinger V, Wickens JB, Wickens VJ, Bommarco R, Potts SG, Smith HG, Steffan-Dewenter I, González-Varo JP, Vilà M (2018) Plant-pollinator networks in semi-natural grasslands are resilient to the loss of pollinators during blooming of mass-flowering crops. *Ecography*. 41:62-74.

2017

27. Campbell, M., Edwards, W., **Magrach, A.**, Alamgir, M., Porolak, G., Laurance, W.F. (2017) Forest disturbance drives rattan proliferation in tropical rain forest fragments. *Scientific Reports* 7:6071
26. Venter, O., Outram, N., **Magrach, A.**, Klein, C.J., Di Marco, M., Watson, J.E.M. (2017) Bias in protected-area location and its effects on long-term aspirations of biodiversity conventions. *Conservation Biology*. DOI:10.1111/cobi.12970.
25. **Magrach, A.**, González-Varo, J.P, Boiffier, M., Vilà, M., Bartomeus, I. (2017) Honeybee spillover reshuffles pollinator diets and affects plant reproductive success. *Nature Ecology and Evolution* 1: 1299-1307.
24. Magnago L, **Magrach A**, Barlow J, Schaefer C, Laurance WF, Martins S, Edwards D (2017) Do fragment size and edge effects predict carbon stocks in trees and lianas in tropical forests? *Functional Ecology*. 31: 542-552.

2016

23. Yaap B, **Magrach A**, Clements GR, McClure CJW, Paoli GD, Laurance WF (2016) Large mammal use of linear remnant forests in an industrial pulpwood plantation in Sumatra, Indonesia. *Tropical Conservation Science*. 9(4).
22. Venter O, Sanderson EW, **Magrach A**, Allan J, Beher J, Jones K, Possingham H, Laurance WF, Wood P, Fekete BM, Levy MA, Watson JEM (2016) Sixteen years of change in the global terrestrial Human Footprint and implications for biodiversity conservation. *Nature Communications* 7, DOI:10.1038/ncomms12558. (Featured in [Science Daily](#), [El Pais](#), [National Geographic](#))
21. Venter O, Sanderson EW, **Magrach A**, Allan J, Beher J, Jones K, Possingham H, Laurance WF, Wood P, Fekete BM, Levy MA, Watson JEM (2016) Global Human Footprint maps for 1993 and 2009. *Scientific Data* 3, DOI:10.1038/sdata.2016.67.

20. **Magrach A**, Senior R, Rogers A, Nurdin D, Benedick S, Laurance WF, Santamaria L, Edwards DP (2016) Selective logging in tropical forests decreases the robustness of liana-tree interaction networks to the loss of host tree species. *Proceedings of the Royal Society B* 283: 20153008

2015

19. **Magrach A**, Rodriguez-Perez J, Piazzon M, Santamaria L (2015) Divergent effects of forest edges on host distribution and seed disperser activity influence mistletoe distribution and recruitment. *Journal of Ecology* 103(6): 1475-1486.
18. **Magrach A**, Ghazoul J (2015) Climate and pest-driven geographic shifts in global coffee production: implications for forest cover, biodiversity and carbon storage. *PLoS ONE* 10(7): e0133071. DOI: 10.1371/journal.pone.0133071. (Featured in [BBC Future](#), [Tages Anzeiger](#), [L'Hebdo](#), [20 minuten](#), [24 heures](#))
17. Magnago L, **Magrach A**, Laurance WF, Martins SV, Meira Neto JA, Simonelli M, Edwards DP (2015) Would protecting tropical forest fragments provide carbon and biodiversity co-benefits under REDD+? *Global Change Biology*. 21(9): 3455-3468, DOI: 10.1111/gcb.12937

2014

16. Tallis H, Lubchenco J, et al. (2014) Working together: A call for inclusive conservation. *Nature* 515: 27-28.
15. Laurance WF, Andrade AS, **Magrach A**, Camargo JLC, Valsko JJ, Campbell M, Fearnside PM, Edwards W, Lovejoy TE, Laurance SG (2014) Apparent environmental synergism drives the dynamics of Amazonian forest fragments. *Ecology* 95:3018-3026 <http://dx.doi.org/10.1890/14-0330.1>. (Featured in [Science Daily](#))
14. Edwards DP*, **Magrach A***, Woodcock P, Lee-Cruz L, Edwards FA et al. (2014) Selective-logging and oil palm: multi-taxon impacts, biodiversity indicators, and trade-offs for conservation planning. *Ecological Applications* 24:8, 2029-2049 (*: Equal contribution).
13. **Magrach A**, Rodríguez-Pérez J, Campbell M, Laurance WF (2014) Edge effects shape the spatial distribution of lianas and epiphytic ferns in Australian tropical rainforest fragments. *Applied Vegetation Science*. 17: 754-764 DOI: 10.1111/avsc.12104. (Featured in [New Scientist](#))
12. **Magrach A**, Laurance WF, Larrinaga AR, Santamaría L (2014) Meta-analysis of the effects of forest fragmentation on interspecific interactions. *Conservation Biology* 28:1342-1348. DOI: 10.1111/cobi.12304
11. Laurance WF, Andrade AS, **Magrach A**, Camargo JLC, Valsko JJ, Campbell M, Fearnside PM, Edwards W, Lovejoy TE, Laurance SG (2014) Long-term changes in liana abundance and forest dynamics in undisturbed Amazonian forests. *Ecology*. <http://dx.doi.org/10.1890/13-1571.1>.
10. Magnago L, Edwards DP, Edwards FA, **Magrach A**, Martins SV, Laurance WF (2014) Functional attributes change but functional richness is unchanged after fragmentation of Brazilian Atlantic forests. *Journal of Ecology* 102(2): 475-485.

2013

9. **Magrach A**, Larrinaga AR, Santamaria L (2013) Edge effects in a three-dimensional world: Height in the canopy modulates edge effects on the epiphyte *Sarmienta repens* (Gesneriaceae). *Plant Ecology* 214(7): 965-973. DOI: 10.1007/s11258-013-0222-x
8. **Magrach A**, Santamaria L, Larrinaga AR (2013) Forest edges show contrasting effects of an austral mistletoe due to differences in pollination and seed dispersal. *Journal of Ecology* 101: 713-721, doi: 10.1111/1365-2745.12083.

2012

7. **Magrach A**, Larrinaga AR, Santamaria L (2012) Internal habitat quality determines the effects of fragmentation on Austral forest climbing and epiphytic angiosperms *PLos One* DOI: 10.1371/journal.pone.0048743
6. **Magrach A**, Santamaria L, Larrinaga AR (2012) Effect of matrix characteristics and interpatch distance on functional connectivity in fragmented temperate rainforests. *Conservation Biology* 26(2): 238-247. DOI: 10.1111/j.1523-1739.2011.01818.x
5. **Magrach A**, Larrinaga AR, Santamaria L (2012) Differential effects of anthropogenic edges and gaps on the reproduction of a forest-dwelling plant: the role of plant reproductive effort and nectar robbing by bumblebees. *Austral Ecology* 37:600-609. DOI:10.1111/j.1442-9993.2011.02320.x.

2011

4. **Magrach A**, Larrinaga AR, Santamaria L (2011) Changes in patch features may exacerbate or compensate for the effect of habitat loss on forest bird populations. *PLos One* DOI 10.1371/journal.pone.0021596.
3. **Magrach A**, Guitián J, Larrinaga AR, Guitián J (2011) Land-use and edge effects unbalance seed dispersal-predation ratio under habitat fragmentation. *Ecological Research*. 26(4):851-861. DOI: 10.1007/s11284-011-0846-z.
2. Guitián J, Guitián P, **Magrach A**, Docampo C, Dominguez P, Guitián L (2011) Effect of management and spatial characteristics on plant species richness of *Castanea sativa* Mill. Woodlands in the NW Iberian Peninsula. *Journal of Forest Research*. 17:98-114. DOI 10.1007/s10310-011-0261-x

2009

1. Farji-Brener AG, Chinchilla FA, **Magrach A**, Romero V, Ríos M, Velilla M, Serrano JM, Amador-Vargas S (2009) Short Communications. Slope orientation enhances the nurse effect of a paramo shrub, *Hypericum irazuense* (Hypericaceae) in Costa Rica *Journal of Tropical Ecology* 25:331–335.

Book chapters:

1. Campbell M, Laurance WF, **Magrach A** (2015) Ecological effects of lianas in fragmented forests. In: Ecology of Lianas. S. A. Schnitzer, F. Bongers, R. Burnham, and F. E. Putz, editors, John Wiley & Sons Ltd, Oxford, pp: 443-450.

- Campbell M, **Magrach A**, Laurance WF (2015) Liana diversity and the future of tropical forests. Pp: 255-274. In: Biodiversity of Lianas. Parthasarathy, N. editor. Sustainable Development and Biodiversity series. Springer.

Datasets

- Magrach A**, Rodriguez-Perez J, Piazzon M, Santamaria L (2015) Data from: Divergent effects of forest edges on host distribution and seed disperser activity influence mistletoe distribution and recruitment. Dryad Digital Repository. DOI: doi:10.5061/dryad.sp698
- Magrach A**, Senior R, Rogers A, Nurdin D, Benedick S, Laurance WF, Santamaria L, Edwards DP (2016) Data from: Selective logging in tropical forests decreases the robustness of liana-tree interaction networks to the loss of host tree species. Dryad Digital Repository. <http://dx.doi.org/10.5061/dryad.6v75k>
- Magrach A**, Holzschuh A, Bartomeus I, Rundlöf M, Riedinger V, Wickens JB, Wickens VJ, Bommarco R, Potts SG, Smith HG, Steffan-Dewenter I, González-Varo JP, Vilà M (2017) Data from: Plant-pollinator networks in semi-natural grasslands are resilient to the loss of pollinators during blooming of mass-flowering crops. Dryad Digital Repository. DOI: <http://dx.doi.org/10.5061/dryad.k0q1n>

Popular articles:

- Campbell M, **Magrach A** (2013) It's a long way to the top if you have to climb a bole; vines and the rainforest. Australian Wildlife Volume 3.
- Campbell M, **Magrach A** (2014) Are Australia's "penthouse" living epiphytic ferns under attack? Australasian Science. In press.

AWARDS AND HONOURS

2014	University of Santiago de Compostela Extraordinary PhD Award
2012	Winner Best Student and Early Career Researcher Poster at Centre for Tropical Environment and Sustainability Science meeting, Cairns

GRANTS AND FELLOWSHIPS

Total: 799,264 €

2019	JRS Foundation Grants for Pollination Research	35,430 €
2019	Proyecto I+D Generación Conocimiento	123,637 €
2019	Ikerbasque Research Fellow	185,000 €
2018	Beca Leonardo. Fundacion BBVA	39,100 €
2016	Severo Ochoa travel grant	1,500 €
2016	Juan de la Cierva Postdoctoral fellowship	64,000 €
2015	Diputacion Foral Bizkaia (Bizkaia Talent Program) - Post-doctorate research (DECLINED)	
2014	Swiss State Secretariat for Education, Research and Innovation (SERI) - Seed funding for pilot activities with	9,174 €

	Indonesia, Malaysia, Thailand and Vietnam- ETH Zurich	
2013	ETH Zurich/ Marie Curie Cofund - Post-doctorate research	200,957 €
2012	Basque Government - Postdoctorate research fellowship – James Cook Universtiy, Australia	56,000 €
2011	Basque Government- PhD Thesis Special Award	3,000 €
2009	Basque Government- Travel grant- Chile	2,600 €
2008	Basque Government- Travel grant- Chile	3,100 €
2007	Basque Government- PhD fellowship	73,425 €
2005	Science and Education Ministry, Spain- Scientific initiation as undergraduate student	2,341 €

INVITED PRESENTATIONS & ROUNDTABLES

Astibia, H, **Magrach, A**, Loidi, J (2018) Roundtable: The Sixth Extinction. XVI Meeting Young Researchers in Paleontology.

Magrach A Species interactions in fragmented landscapes (2012) James Cook University, Australia

Magrach A Species interactions show varied responses to the different components of forest fragmentation. 2015. 27th International Congress for Conservation Biology. 4th European Congress for Conservation Biology. Montpellier, France.

SCIENTIFIC PRESENTATIONS

Magrach, A., Molina, F.P, Bartomeus, I. (2019) Evaluating how plant-pollinator network structure affects plant reproductive success. Annual meeting Iberian Ecological Society, SIBECOL, Barcelona, Spain.

Funk, A.,Martínez-López, J.,Borgwardt, F., Trauner, D., Bagstad, K.J., Balbi, S., **Magrach, A.**, Villa, F., Hein, T. (2019) Ecosystem-based management to support conservation and restoration efforts for a complex large scale socio-ecological system - the Danube River in Europe. General Assembly European Geosciences Union, Vienna, Austria.

Magrach, A., Molina, F.P, Bartomeus, I. (2018) Evaluating how plant-pollinator network structure affects plant reproductive success. British Ecological Society Annual Meeting, Birmingham, UK.

Pascual, M., Harmackova, Z, et al (2018) The paradigm behind the ARIES modelling environment: what is its added value? ESP Europe, San Sebastián, Spain.

Martínez-López, J, **Magrach, A**, Bartomeus, I, Balbi, S, Villa, F. (2018) Calibration of a spatio-temporal model in k.LAB (ARIES). VI Remedia Workshop, Granada, Spain.

Magrach, A., Champetier, A., Krishnan, K., Boreux, V., Ghazoul, J. (2018) Sources of uncertainty in the value and opportunity costs of pollination services. Ecoflor meeting, Palma de Mallorca, Spain.

Martínez-López, J, **Magrach, A**, Balbi, S, Villa, F. (2017) Desarrollo de un modelo de polinización espacio-temporal en k.LAB (ARIES). V Remedia Workshop, Barcelona, Spain.

Magrach A, González-Varo JP, Vilà M, Bartomeus I (2016) Honeybee spillover decreases reproductive output in plants and shifts pollinator diet. Scandinavian Association for Pollination Ecologists, Abisko, Sweden.

Magrach A, Holzschuh A, Bartomeus I, Rundlöf M, Riedinger V, Wickens JB, Wickens VJ, Bommarco R, Potts SG, Smith HG, Steffan-Dewenter I, González-Varo JP, Vilà M (2016) Plant-pollinator networks in semi-natural grasslands are resilient to the loss of pollinators during blooming of mass-flowering crops. Ecological Society of America Annual Meeting, Fort Lauderdale, Florida, USA

Magrach A, Champetier A, Krishnan S, Boreux V, Ghazoul J (2015) Pollination districts in a coffee-producing landscape: conservation and other benefits. Annual Conference of the Association for Tropical Biology and Conservation (ATBC), Honolulu, USA

Magrach A, Laurance WF, Larrinaga AR, Santamaria L (2015) Species interactions show varied responses to the different components of forest fragmentation. Annual Conference of the Society of Conservation Biology (SCB), Montpellier, France

Magrach A, Champetier A, Krishnan S, Boreux V, Ghazoul J (2015) Pollination districts in the Western Ghats: coffee production, conservation and other benefits. Annual Conference of the Society for Tropical Ecology (Gto), Zurich, Switzerland

Santamaría, L, Magrach, A, Piazzon, M, Rodríguez-Pérez, J, Guitián, P, Molina, C, Pérez-Espona S (2015) Seed dispersal in anthropogenic landscapes: incorporating the role of individual decisions by animal dispersers. 4º Congreso Ibérico de Ecología, Coimbra, Portugal.

Magrach A, Ghazoul J (2014) Forest-coffee conflict under climate change. Ecological Society of America Annual Meeting, Sacramento, California, USA

Magrach A, Rodriguez-Perez J, Campbell M, Laurance WF (2013) Forest disturbance shapes interactions between lianas, trees and epiphytic ferns. VII Southern Connection, Dunedin, New Zealand

Magrach A (2012) Forest fragmentation affects inter-specific interactions: a meta-analysis. Centre for Tropical Environmental and Sustainability Science meeting, Cairns, Australia

Magrach A, Santamaria L, Larrinaga AR (2010) Distance to forest edges influence plant and animal spatial patterns resulting in complex effects on different components of reproductive success. Scandinavian Association for Pollination Ecologists, Tovetorp, Sweden

Magrach A, Larrinaga AR, Santamaria L (2010) Addressing the area versus isolation controversy in forest fragmentation studies. British Ecological Society Annual Meeting, Leeds, UK

Magrach A, Larrinaga AR, Santamaria L (2010) Patch features other than size determine the impact of forest fragmentation on bird densities. IV Southern Connection, "Gondwana reunited: a southern perspective for a changing world", Bariloche, Argentina

Magrach A, Larrinaga AR, Guitián JA, Guitián JM (2008) Seed dispersal-predation balance under habitat fragmentation conditions. Evolutionary Ecology Symposium, “The Evolutionary Ecology of Plant-Animal interactions: from genes to communities” Palma de Mallorca, Spain

PARTICIPATION IN RESEARCH PROJECTS

- 2019-2020* **Integrative modelling to understand pollination services across agricultural landscapes**
Funding agency: JRS Foundation
I Institution: BC3
Main researcher: Dr. Ainhoa Magrach
- 2019-2021* **TRANSIT:** Evaluación del rol funcional de la esfinge colibrí, *Macroglossum stellatarum* a lo largo de su ruta migratoria: implicaciones para el funcionamiento del ecosistema.
Funding agency: Ministerio de Ciencia, Innovación e Universidades
Institution: BC3
Main researcher: Dr. Ainhoa Magrach
- 2019-2022* **OBServ:** Open Library of Pollinator Biodiversity and Ecosystem Services Scenarios.
Funding agency: Biodiversa Belmont Forum
Institution: EBD (CSIC)
Main researcher: Dr. Ignasi Bartomeus
- 2018-2020* **CARDINAL:** Understanding the functional role of migratory hummingbirds in plant-pollinator interaction networks along a latitudinal gradient.
Funding agency: Fundacion BBVA
Institution: BC3
Main Researcher: Dr. Ainhoa Magrach
- 2015-2018* **ECODEAL:** Enhancing biodiversity-based ecosystem services to crops through optimized densities of green infrastructure in agricultural landscapes
Funding Agency: BiodivERsA/FACCE-JPI
Institution: Lund University
Main Researcher: Dr. Yann Clough
- 2013-2015* **An integrated approach to evaluating biodiversity, carbon storage and pollination services in a dynamic landscape mosaic.**
Funding Agency: ETH Zurich-Marie Curie Cofund
Institution: ETH Zurich

Main Researcher: Dr. Ainhoa Magrach

- 2012-2013* **Impacts of habitat disruption and global change on liana-tree interactions**
Funding Agency: Australian Research Council
Institution: James Cook University
Main Researcher: Prof. William F. Laurance
- 2011-2012* **Strategic project for the total re-classification of Playa de Palma. Adaptation to climate change and preservation of marine and terrestrial ecosystems.**
Funding Agency: Palma City Council
Institution: Mediterranean Institute for Advanced Studies, Spanish Research Council, Spain
Main Researcher: Dr. Luis Santamaría
- 2007-2010* **Conservation of dispersal mutualisms between the rare arboreal marsupial *Dromiciops gliroides* and fleshy-fruited epiphytic plants in temperate austral forests**
Funding Agency: Fundacion BBVA
Institution: Mediterranean Institute for Advanced Studies, Spanish Research Council, Spain
Main Researcher: Dr. Luis Santamaría
- 2006-2008* **Demographic coupling between two island mutualists, the balearic lizard (*Podarcis lilfordi*) and the ephedra (*Ephedra fragilis*)**
Funding Agency: Balearic Island Government
Institution: Mediterranean Institute for Advanced Studies, Spanish Research Council, Spain
Main Researcher: Dr. Luis Santamaría
- 2005-2007* **Variation in fruit size in frugivore-dispersed plants: selective pressures, spatial and temporal variation**
Funding Agency: Spanish Ministry of Science and Education
Institution: University of Santiago de Compostela
Main Researcher: Dr. Pablo Guitián
- 2004-2007* **Effect of fragmentation and use in biological diversity in chestnut (*Castanea sativa*) woodlots in the LIC Ancares-Caurel. Implications for the conservation of the Galician forest**
Funding Agency: Galician Government
Institution: University of Santiago de Compostela

Main Researcher: Dr. Javier Guitián

TEACHING EXPERIENCE & TRAINING

- 2006-2008 *Subject:* Conservation Ecology
Institution: University of Santiago de Compostela
Practical lessons
- 2013 *Workshop:* Modelling Ecological Data with R
Institution: James Cook University
- 2014 UNIBASQ certification as Associate Professor for the Basque
University System
- 2016 Teaching assistant Spring University on Ecosystem Service
Modelling, Basque Centre for Climate Change, Bilbao
- 2018 Teacher Spring University on Ecosystem Service Modelling,
Basque Centre for Climate Change, Bilbao

STUDENT SUPERVISION

Ph.D. Student Supervision

2009-2013 *Luiz Fernando Silva Magnago*, Universidad Federal de Viçosa, Brazil.
*Effect of forest fragmentation on tree species in the tableland Atlantic rainforests of
Espirito Santo, Brazil*, Co-supervised with WF Laurance & D Edwards.

I have also helped in the supervision of Ms. Betsy Yap and Mr. Mason Campbell at JCU, Australia.

Master Student Supervision

2018- *Victor Rivera*. Universidad Veracruzana, Mexico. *Influencia de la urbanizacion en interacciones mutualistas del bosque mesofilo de montaña Xalapa, Veracruz*. Co-supervised with Dr. Pascual Linares.

EXTERNAL SERVICE

Peer reviewer of >20 manuscripts for 15 journals, including: *The American Naturalist; Ecology Letters; Ecology; Biological Conservation; Ecosistemas; Ecological Research; Revista Biología Tropical; Pacific Science; Ecology and Evolution; Journal of Ecology; Journal of Vegetation Science; Biotropica; Plant Ecology and Diversity; Diversity and Distributions, Acta Oecologica*

Associate Editor: Journal of Applied Ecology

Review Editor: Frontiers in Ecology and Evolution

Recommender: Peer Community in Ecology

Reviewer profile at: <https://publons.com/author/1045247/ainhoa-magrach#profile>

Expert panels: Belgian Science Policy Office (BELSPO), National Science Foundation (NSF), Spanish National Agency of Evaluation and Prospective (ANEP)

Mentoring: organized mentoring activities for early-career researchers at MEDECOS 2017 and SIBECOL 2019 conferences. Participation in “Inspira-STEAM” project to mentor high-school female students considering a career in science.

UNIVERSITY & DEPARTMENTAL SERVICE

Representative for postdoctoral fellows at Institute of Terrestrial Ecosystems meetings (ITES), ETH-Zurich

Member of the board of directors of the Spanish Association for Terrestrial Ecology (AEET)

OTHER RESEARCH TRAINING

2019	EMBO Laboratory Leadership skills for postdocs, Heidelberg, Germany
2014	Spring University on Ecosystem Services Modelling, Bilbao, Spain
2013	Current threats and opportunities in tropical forests, Kota Kinabalu, Borneo
2010	Introduction to Remote-sensing techniques, Mallorca, Spain
2008	Introduction to analyses with SADIE, Madrid, Spain
2008	Introduction to point-pattern analysis, Madrid, Spain
2008	Tropical Ecology and Conservation, OTS, Costa Rica
2007	Ibero-american course on frugivory and seed dispersal, Ilha do Cardoso, Brazil
2007	Application of basic statistics using SPSS for biologists, Santiago de Compostela, Spain
2006	Doctorate courses “Environment and Natural Resources”, Santiago de Compostela, Spain
2006	Natural resource conservation at the Sierra do Courel: a multi-disciplinary approach to the study of the occidental rim of the Cantabrian Cordillera, Lugo, Spain
2004	Ocean biodiversity: marine ecology and zoology, Roscoff, France.

OTHER ACADEMIC SKILLS

Computer Computer programming (R) and use of several statistical packages (R, Pc-Ord, SAS, SPSS, Statistica) and GIS

Data Analysis	platforms (ArcGIS, QGIS, Idrisi, Envy). Generalized and General Models Mixed Models Multivariate analysis Multiple regressions Spatial statistics (point-pattern analyses)
Experience in field study areas	Sierra do Courel, Galicia (Spain) Dragonera Island, Balearic Islands (Spain) Cerro de la Muerte, Maritza, Palo Verde (Costa Rica) Ilha do Cardoso (Brazil) Chiloé Island (Chile) North Queensland (Australia) Maliau Basin (Malaysian Borneo) Western Ghats (India)

LANGUAGES

Spanish: Mother tongue

English: fluent (Advanced degree in Official Language School, Pre-school through high school studies in the American School of Bilbao)

French: fluent (B2 level)

Portuguese: basic knowledge

Basque: intermediate knowledge (B1 level)

German: basic level (A2.1 level)

ACADEMIC SOCIETIES

Association for Tropical Biology and Conservation (ATBC), British Ecological Society (BES), Ecological Society of America (ESA), Asociación Española de Ecología Terrestre (AEET)

PRESS COVERAGE

eSGlobal	El futuro de la biodiversidad pasa por la cesta de la compra	2018
Ecologist	How the spread of woody vines is threatening fragmented rainforests	2018
Mongabay	Vine-like lianas alter the edges of fragmented forests: New Study	2018
El País	La Guerra civil de las abejas	2018
ABC	Las abejas de la miel compiten con las salvajes por el mismo hábitat	2018
La Vanguardia	Un estudio de la EBD demuestra que las abejas de la miel compiten con las salvajes por el mismo hábitat	2018
Fundación Descubre	Demuestran que las abejas de la miel compiten con las salvajes por el mismo hábitat	2018
M21 Radio	Einstein en Malasaña	2018
El País	Los humanos han alterado ya el 75% de la superficie	2016

La Vanguardia	terrestre El 97% de las zonas naturales más valiosas, dañadas por los humanos	2016
BBC	Coffee in crisis: the bitter end of our favourite drink?	2015
Yo Dona	Españolas por el mundo: bióloga nómada en Chile	2009

REFERENCES

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Research Professor, Department of Integrative Ecology, Estacion Biologica de Doñana, EBD-CSIC, Spain.

William F. Laurance (bill.laurance@jcu.edu.au)

Distinguished Research Professor & Australian laureate. James Cook University, Australia.

Jaboury Ghazoul (jaboury.ghazoul@env.ethz.ch)

Research Professor, Ecosystem Management Group, ETH Zurich