

# Joaquín Hortal, PhD

## Personal Curriculum Vitae

### 1. Personal data and contacts

#### 1a. Personal details

Full name: Joaquín Hortal Muñoz  
Nationality: Spanish  
Birth place and date: Madrid, 24-02-1973  
National identity card: 50729222P  
Passport: P-ESP AAC915762

#### 1b. Contact Details

Current address: Foresta 17, 3°C  
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Researcher ID: <http://www.researcherid.com/rid/A-1531-2008>

#### 1c. Current institutional affiliations and positions

##### Current Position:

Research Fellow [Investigador contratado Ramón y Cajal]  
Departamento de Biodiversidad y Biología Evolutiva  
Museo Nacional de Ciencias Naturales (CSIC)  
C/José Gutiérrez Abascal 2, 28006 Madrid  
Spain

##### Other Affiliations:

Visiting Professor  
Departamento de Ecologia  
Instituto de Ciências Biológicas  
Universidade Federal de Goiás  
74001-970 Goiania, GO  
Brazil

Associate Researcher  
CBA – Centro de Biologia Ambiental  
(Centre for Environmental Biology)  
Faculdade de Ciências da  
Universidade de Lisboa  
Campo Grande, 1749-016 Lisboa  
Portugal

Associate Researcher  
Azorean Biodiversity Group – CITA A  
Departamento de Ciências Agrárias  
Universidade dos Açores  
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Portugal

## **1d. Professional memberships**

International Biogeography Society (from 2006); member of the Committee on Advertising and Outreach (from May 2011)  
British Ecological Society (from 2008)  
Asociación Española de Ecología Terrestre (from 2011)  
Sociedad Entomológica Aragonesa (from 1999)  
Sociedad Española de Entomología (1996-1999)

## **2. Academic degrees**

1999–2004 – PhD in Biological Sciences - Evolutionary Biology and Biodiversity Program (Doctor en Ciencias Biológicas, programa de Biología Evolutiva y Biodiversidad) by the Universidad Autónoma de Madrid; Sobresaliente cum laude (Pass with distinction [A] and honors).  
2000–2002 – MSc in Advanced Research Studies - Evolutionary Biology and Biodiversity Program (Diploma de Estudios Avanzados, programa de Biología Evolutiva y Biodiversidad) by the Universidad Autónoma de Madrid; Sobresaliente (Pass with distinction [A]).  
1996–1997 – MSc in Education and Pedagogy (High School level and above) (Curso de Aptitud Pedagógica) by the Universidad Complutense de Madrid; Apto (Pass [No qualification specified]).  
1990–1996 – BSc in Biological Sciences (3 years of general biology, and 2 years of specialization in Environmental Biology) (Licenciado en Ciencias Biológicas, especialidad en Biología Ambiental) by the Universidad Autónoma de Madrid; Notable (Pass with B).

## **3. Language Skills**

Language – Reading, Writing, Listening, Conversation

English – Excellent, Very Good, Very Good, Fluent

Portuguese – Excellent, Good, Excellent, Fluent

French – Good, Basic, Basic, Basic

Italian – Good, Bad, Good, Basic

Spanish – Mother tongue

## **4. Previous and current scientific and/or professional activities**

### **4a. Scientific activities**

December 2010–Present – Research fellow [Investigador Contratado Ramón y Cajal], Museo Nacional de Ciencias Naturales (CSIC), Spain.  
September 2010–March 2012 – Visiting Researcher [Pesquisador Visitante CNPq], Instituto de Ciências Biológicas, Universidade Federal de Goiás, Brazil.  
June 2010–September 2010 – Research fellow [Investigador Contratado JAE-Doc], Museo Nacional de Ciencias Naturales (CSIC), Spain.

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April 2007–March 2010 – Research associate, NERC Centre for Population Biology, Imperial College London, UK.

January 2007–March 2007 – Postdoctoral researcher [Bolsa de Posdoutoramento FCT], Museo Nacional de Ciencias Naturales (CSIC), Spain.

January 2006–December 2006 – Postdoctoral researcher (Visiting) [Bolsa de Posdoutoramento FCT], Center for Macroecology, Institute of Biology, University of Copenhagen, Denmark.

April 2005–December 2005 – Postdoctoral researcher [Bolsa de Posdoutoramento FCT], Azorean Biodiversity Group, CITA A - Departamento de Ciências Agrárias, Universidade dos Açores, Portugal.

October 2004–March 2005 – Part time Research Assistant on Biodiversity Conservation, Museo Nacional de Ciencias Naturales (CSIC), Spain.

October 2003–February 2004 – ENBI Forums Project Manager, European Network for Biodiversity Information/Spanish GBIF Node, Real Jardín Botánico (CSIC), Spain.

October 1999–September 2003 – Predoctoral Grant, Museo Nacional de Ciencias Naturales (CSIC), Spain.

### **4b. Other professional and academic activities**

1996–1997 – Coordinator and educator of Environmental Education Program, Fundación General de la Universidad Autónoma de Madrid/Asociación de Vecinos de Tres Cantos (Spain).

### **4c. Academic visits and short stays**

June 2010 – Invited researcher. Azorean Biodiversity Group, CITA A - Departamento de Ciências Agrárias, Universidade dos Açores, Portugal. 5 weeks.

January 2010 – Invited researcher. Departamento de Ecologia, Universidade Federal de Goiás, Brazil. 2 weeks.

November 2007 – Invited researcher. Departamento de Ecologia, Universidade Federal de Goiás, Brazil. 2 weeks.

September 2006 – Invited researcher. Azorean Biodiversity Group, CITA A - Departamento de Ciências Agrárias, Universidade dos Açores, Portugal. 3 weeks.

January 2005 – Invited researcher. Azorean Biodiversity Group, CITA A - Departamento de Ciências Agrárias, Universidade dos Açores, Portugal. 7 weeks.

November 2004 – Invited researcher. Azorean Biodiversity Group, CITA A - Departamento de Ciências Agrárias, Universidade dos Açores, Portugal. 5 weeks.

June 2004 – Research assistant. Azorean Biodiversity Group, CITA A - Departamento de Ciências Agrárias, Universidade dos Açores, Portugal. 10 weeks.

## **5. Scientific activity and specialization**

### **5a. Keywords**

Biogeography, Biodiversity, Macroecology, Community Ecology, Conservation, Entomology

Functional Diversity, Ecological Networks, Species Richness Estimators, Dung Beetle Ecology, Island Biogeography, Species Distribution Modelling, Species Richness Modelling, Survey Design

### **5b. Area of scientific activity**

The core of my scientific activity is the research on biodiversity, in five areas:

- Theoretical insights on the causes of the geographic patterns of biodiversity
- Community assembly and organization through time and space
- Functional structure of ecological assemblages
- Measurement of biodiversity, and the biases associated to biodiversity data
- Practical applications of present theoretical knowledge and statistics to the conservation and territorial management of biodiversity

As secondary areas, I work in:

- Iberian, Macaronesian and Western Palaearctic (European) biogeography
- Dung beetle ecology and faunistics
- Applications of statistical advances to ecology
- Species distribution models
- Applications of Geographic Information Systems to ecology and land management

### **5c. Domains of specialization**

My research on biodiversity deals on two main topics:

1 - Theoretical biodiversity science (historical and present-day biogeography and macroecology, using both paleontological and recent perspectives):

- a) description of patterns of biodiversity variation through space and time,
- b) description of the functional structure and interaction of ecological communities through space and time,
- c) description of the evolutionary structure of biological assemblages,
- d) identify the factors causing these patterns and structures.

2 - Applied conservation:

- a) local estimates of biodiversity attributes (species richness, rarity, endemism, community variation, etc.),
- b) predictive modelling of the geographic distribution of these attributes,
- c) reserve selection and design.

Since studying the general patterns in biodiversity needs to work with different groups and different areas, I work with:

- a) Insects (dung beetles, butterflies), mammals and plants, and a wide array of other groups.
- b) Local areas, small regions (Madrid region, Azores, Canary islands), biogeographic provinces (Portugal, Iberian Peninsula), biogeographic regions (Palearctic, Nearctic, Neotropical or Paleotropical), global studies.

#### **5d. Present research interests**

At present, I am working on the following topics, either leading or collaborating in the research:

- 1 – Pattern and process in community assembly from a biogeographical perspective.
- 2 – Historical and environmental factors effecting global and continental patterns in the diversity and structure of terrestrial communities.
- 3 – Patterns in the structure and organization of ecological interactions and interaction networks in space.
- 4 – Geographic patterns of biodiversity in the Western Palearctic, the Iberian Peninsula and the Macaronesian archipelagos.
- 5 – Ecology and biogeography of island faunas.
- 6 – Biogeography of microscopic animals.
- 7 – Study of the geographical responses of species through species distribution models
- 8 – Biases in historical faunistic information, and reliability of the picture of biodiversity and species ecology offered by such information.
- 9 – Accuracy and reliability of several biodiversity estimators, such as species richness estimators, the ED problem (representation of biodiversity with environmental surrogates), or the measurement of faunistic dissimilarity.
- 10 – Systematic Conservation planning.

#### **5e. Other skills/activities**

I am also interested in:

- a) Dung beetle (Coleoptera, Scarabaeoidea) biogeography, ecology, evolution and taxonomy.
- b) The use of Geographic Information Systems and Remote Sensing techniques for land management and environmental planning, particularly in impacts and risk assessment, and in land classification techniques.
- c) The development and mining of biological databases, including information quality issues, data access and structure, and the development of the Global Biodiversity Information initiative (GBIF).

## 6. Publications

### 6a. Papers in journals listed in the SCI [61]

1. Gouveia, S.F., **Hortal, J.**, Tejedo, M., Duarte, H., Cassemiro, F.A.S., Navas, C.A. & Diniz-Filho, J.A.F. (2013) Climatic niche at physiological and macroecological scales: thermal tolerance–geographic range interface and niche dimensionality. *Global Ecology and Biogeography*, in press.
2. Medina, N.G., Lara, F., Mazimpaka, V. & **Hortal, J.** (2013) Designing bryophyte surveys for an optimal coverage of diversity gradients. *Biodiversity and Conservation*, in press.
3. Fontaneto, D. & **Hortal, J.** (2013) At least some protist species are not ubiquitous. *Molecular Ecology*, in press. doi:10.1111/mec.12507
4. Medina, N.G., Albertos, B., Lara, F., Mazimpaka, V., Garilleti, R., Draper, D. & **Hortal, J.** (2013) Species richness of epiphytic bryophytes: drivers across scales on the edge of the Mediterranean. *Ecography*, in press. doi:10.1111/j.1600-0587.2013.00095.x
5. **Hortal, J.**, Carrascal, L.M., Triantis, K.A., Thébault, E., Meiri, S. & Sfenthourakis, S. (2013) Species richness can decrease with altitude, but not with habitat diversity. *Proceedings of the National Academy of Sciences USA*, doi:10.1073/pnas.1301663110.
6. Aranda, S.C., Gabriel, R., Borges, P.A.V., Santos, A.M.C., **Hortal, J.**, Baselga, A. & Lobo, J.M. (2013) How do different dispersal modes shape the species–area relationship? Evidence for between-group coherence in the Macaronesian flora. *Global Ecology and Biogeography*, 22, 483–493. doi:10.1111/geb.12008.
7. Gouveia, S.F., **Hortal, J.**, Cassemiro, F.A.S., Rangel, T.F. & Diniz-Filho, J.A.F. (2013) Nonstationary effects of productivity, seasonality, and historical climate changes on global amphibian diversity. *Ecography*, 36, 104–113. doi: 10.1111/j.1600-0587.2012.07553.x
8. **Hortal, J.**, Lobo, J.M. & Jiménez-Valverde, A. (2012) Basic questions in biogeography and the (lack of) simplicity of species distributions: Putting species distribution models in the right place. *Natureza & Conservação – Brazilian Journal of Nature Conservation*, 10, 108-118. doi:10.4322/natcon.2012.029
9. Ureta, C., Martorell, C., **Hortal, J.** & Fornoni, J. (2012) Assessing extinction risks under the combined effects of climate change and human disturbance through the analysis of life-history plasticity. *Perspectives in Plant Ecology, Evolution & Systematics*, 14, 393-401. doi:10.1016/j.ppees.2012.09.001
10. Triantis, K.A., **Hortal, J.**, Amorim, I., Cardoso, P., Santos, A.M.C., Gabriel, R. & Borges, P.A.V. (2012) Resolving the Azorean knot: a response to Carine & Schaefer (2010). *Journal of Biogeography*, 39, 1179-1184. doi:10.1111/j.1365-2699.2011.02623.x
11. Kamino, L.H.Y.\*, Stehmann, J.R., Amaral, S., De Marco Jr, P., Rangel, T.F., de Siqueira, M.F., De Giovanni, R. & **Hortal, J.\*** (2012) Challenges and perspectives for species distribution modelling in the Neotropics. *Biology Letters*, 8, 324–326. doi:10.1098/rsbl.2011.0942 [\* shared 1<sup>st</sup> authorship]
12. **Hortal, J.**, De Marco Jr, P., Santos, A.M.C. & Diniz-Filho, J.A.F. (2012) Integrating biogeographical processes and local community assembly. *Journal of Biogeography*, 39, 627–628. doi:10.1111/j.1365-2699.2012.02684.x

13. Hortal, J. & Lobo, J.M. (2011) Can species richness patterns be interpolated from a limited number of well-known areas? Mapping diversity using GLM and kriging. *Natureza & Conservação – Brazilian Journal of Nature Conservation*, 9, 200-207. doi:10.4322/natcon.2011.026
14. Chefaoui, R.M., Lobo, J.M. & Hortal, J. (2011) Effects of species' traits and data characteristics on distribution models of threatened invertebrates. *Animal Biodiversity and Conservation*, 34, 229-247.
15. Olalla-Tárraga, M.Á., McInnes, L., Bini, L.M., Diniz-Filho, J.A.F., Fritz, S.A., Hawkins, B.A., Hortal, J., Orme, C.D.L., Rahbek, C., Rodríguez, M.Á. & Purvis, A. (2011) Climatic niche conservatism and the evolutionary dynamics in species range boundaries: global congruence across mammals and amphibians. *Journal of Biogeography*, 38, 2237-2247. doi:10.1111/j.1365-2699.2011.02570.x
16. Varela, S., Lobo, J.M. & Hortal, J. (2011) Using species distribution models in palaeobiogeography: A matter of data, predictors and concepts. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 310, 451-463. doi:10.1016/j.palaeo.2011.07.021
17. Fontaneto, D., Westberg, M. & Hortal, J. (2011) Evidence of weak habitat specialisation in microscopic animals. *PLoS ONE*, 6, e23969. doi:10.1371/journal.pone.0023969
18. Santos, A.M.C., Quicke, D.L.J., Borges, P.A.V. & Hortal, J. (2011) Species pool structure determines the level of generalism of island parasitoid faunas. *Journal of Biogeography*, 38, 1657-1667. doi:10.1111/j.1365-2699.2011.02521.x
19. Hortal J., Diniz-Filho J.A.F., Bini L.M., Rodríguez M.Á., Baselga A., Nogués-Bravo D., Rangel T.F., Hawkins B.A. & Lobo J.M. (2011) Ice age climate, evolutionary constraints and diversity patterns of European dung beetles. *Ecology Letters*, 14, 741-748. doi:10.1111/j.1461-0248.2011.01634.x
20. Santos, A.M.C., Fontaine, C., Borges, P.A.V., Quicke, D.L.J. & Hortal, J. (2011) Are island and mainland biotas different? Richness and level of generalism in parasitoids of a microlepidopteran in Macaronesia. *Oikos*, 120, 1256-1262. doi:10.1111/j.1600-0706.2010.19404.x
21. Rocchini D.\*, Hortal J.\*, Lengyel S., Lobo J.M., Jiménez-Valverde A., Ricotta C., Bacaro G. & Chiarucci A. (2011) Accounting for uncertainty when mapping species distributions: The need for maps of ignorance. *Progress in Physical Geography*, 35, 221-226. doi:10.1177/0309133311399491 [\* shared 1<sup>st</sup> authorship]
22. Reichert, K., Ugland, K.I., Bartsch, I., Hortal, J., Bremner, J. & Kraberg, A. (2010) Species richness estimation: Estimator performance and the influence of rare species. *Limnology & Oceanography: Methods*, 8, 294-303. doi:10.4319/lom.2010.8.294
23. Struve, J., Lorenzen, K., Blanchard, J., Börger, L., Bunnefeld, N., Edwards, C., Hortal, J., MacCall, A., Matthiopoulos, J., Van Moorter, B., Ozgul, A., Royer, F., Singh, N., Yesson, C., & Bernard, R. (2010) Lost in space? Searching for directions in the spatial modelling of individuals, populations and species ranges. *Biology Letters*, 6, 575-578. doi:10.1098/rsbl.2010.0338
24. Hortal, J., Borges, P.A.V., Jiménez-Valverde, A., Azevedo, E.B.d., & Silva, L. (2010) Assessing the areas under risk of invasion within islands through potential distribution modelling: the case of *Pittosporum undulatum* in São Miguel, Azores. *Journal for Nature Conservation*, 18, 247-257. doi:10.1016/j.jnc.2009.11.002
25. Maes, D., Titeux, N., Hortal, J., Anselin, A., Declerck, K., De Knijf, G., Fichet, V., & Luoto, M. (2010) Predicted insect diversity declines under climate change in an already impoverished region. *Journal of Insect Conservation*, 14, 485–498. doi:10.1007/s10841-010-9277-3
26. Triantis, K.A., Borges, P.A.V., Ladle, R.J., Hortal, J., Gaspar, C., Dinis, F., Mendonça, E., Silveira, L.M.A., Gabriel, R., Cardoso, P., Melo, C., Santos, A.M.C., Amorim, I.R., Ribeiro, S.P.,

- Serrano, A.R.M., Quartau, J.A., & Whittaker, R.J. (2010) Extinction debt on oceanic islands. *Ecography*, 33, 285-294. doi:10.1111/j.1600-0587.2010.06203.x
27. Santos, A.M.C., Whittaker, R.J., Triantis, K.A., Borges, P.A.V., Jones, O.R., Quicke, D.L.J., & **Hortal, J.** (2010) Are species–area relationships from entire archipelagos congruent with those of their constituent islands? *Global Ecology and Biogeography*, 19, 527-540. doi: 10.1111/j.1466-8238.2010.00536.x
28. Santos, A.M.C., Jones, O.R., Quicke, D.L.J., & **Hortal, J.** (2010) Assessing the reliability of biodiversity databases: identifying evenly inventoried island parasitoid faunas (Hymenoptera: Ichneumonoidea) worldwide. *Insect Conservation and Diversity*, 3, 72-82. doi:10.1111/j.1752-4598.2010.00079.x
29. Lobo, J.M., Jiménez-Valverde, A., & **Hortal, J.** (2010) The uncertain nature of absences and their importance in species distribution modelling. *Ecography*, 33, 103-114. doi:10.1111/j.1600-0587.2009.06039.x
30. **Hortal, J.**, Roura-Pascual, N., Sanders, N.J., & Rahbek, C. (2010) Understanding (insect) species distributions across spatial scales. *Ecography*, 33, 51-53. doi:10.1111/j.1600-0587.2009.06428.x
31. Baselga, A., Lobo, J.M., **Hortal, J.**, Jiménez-Valverde, A., & Gómez, J.F. (2010) Assessing alpha and beta taxonomy in Eupelmid wasps: Determinants of the probability of describing good species and synonyms. *Journal of Zoological Systematics and Evolutionary Research*, 48, 40-49. doi:10.1111/j.1439-0469.2009.00523.x
32. Jiménez-Valverde, A., Lobo, J.M., & **Hortal, J.** (2009) The effect of prevalence and its interaction with sample size on the reliability of species distribution models. *Community Ecology*, 10, 196-205. doi:10.1556/ComEc.10.2009.2.9
33. Diniz-Filho, J.A.F., Rodríguez, M.Á., Bini, L.M., Olalla-Tárraga, M.Á., Cardillo, M., Nabout, J.C., **Hortal, J.**, & Hawkins, B.A. (2009) Climate history, human impacts and global body size of Carnivora (Mammalia: Eutheria) at multiple evolutionary scales. *Journal of Biogeography*, 36, 2222-2236. doi:10.1111/j.1365-2699.2009.02163.x
34. Bini, L.M., Diniz-Filho, J.A.F., Rangel, T.F.L.V.B., Akre, T.S.B., Albaladejo, R.G., Albuquerque, F.S., Aparicio, A., Araújo, M.B., Baselga, A., Beck, J., Bellocq, M.I., Böhning-Gaese, K., Borges, P.A.V., Castro-Parga, I., Chey, V.K., Chown, S.L., de Marco Jr., P., Dobkin, D.S., Ferrer-Castán, D., Field, R., Filloy, J., Fleishman, E., Gómez, J.F., **Hortal, J.**, Iverson, J.B., Kerr, J.T., Kissling, W.D., Kitching, I.J., León-Cortés, J.L., Lobo, J.M., Montoya, D., Morales-Castilla, I., Moreno, J.C., Oberdorff, T., Olalla-Tárraga, M.Á., Pausas, J.G., Qian, H., Rahbek, C., Rodríguez, M.Á., Rueda, M., Ruggiero, A., Sackmann, P., Sanders, N.J., Terribile, L.C., Vetaas, O.R., & Hawkins, B.A. (2009) Coefficient shifts in geographical ecology: an empirical evaluation of spatial and non-spatial regression. *Ecography*, 32, 193-204. doi:10.1111/j.1600-0587.2009.05717.x
35. **Hortal, J.**, Triantis, K.A., Meiri, S., Thébault, E., & Sfenthourakis, S. (2009) Island species richness increases with habitat diversity. *American Naturalist*, 173, E205-E217. doi:10.1086/645085
36. Guil, N., **Hortal, J.**, Sánchez-Moreno, S., & Machordom, A. (2009) Effects of macro and micro-environmental factors on the species richness of terrestrial tardigrade assemblages in an Iberian mountain environment. *Landscape Ecology*, 24, 375-390. doi:10.1007/s10980-008-9312-x
37. Borges, P.A.V.\* , **Hortal, J.\***, Gabriel, R., & Homem, N. (2009) Would species richness estimators change the observed species area relationship? *Acta Oecologica*, 35, 149-156. doi:10.1016/j.actao.2008.09.003 [\* shared 1<sup>st</sup> authorship]
38. Borges, P.A.V.\* & **Hortal, J.\*** (2009) Time, area and isolation: Factors driving arthropod speciation at the Azorean Archipelago. *Journal of Biogeography*, 36, 178-191. doi:10.1111/j.1365-2699.2008.01980.x [\* shared 1<sup>st</sup> authorship]



39. Hortal, J., Araújo, M.B., & Lobo, J.M. (2009) Testing the effectiveness of discrete and continuous environmental diversity as a surrogate for species diversity. *Ecological Indicators*, 9, 138-149. doi:10.1016/j.ecolind.2008.02.005
40. Jiménez-Valverde, A., Lobo, J.M. & Hortal, J. (2008) Not as good as they seem: the importance of concepts in species distribution modelling. *Diversity and Distributions*, 14, 885-890. doi:10.1111/j.1472-4642.2008.00496.x
41. Triantis, K.A., Nogués-Bravo, D., Hortal, J., Borges, P.A.V., Adersen, H., Fernández-Palacios, J.M., Araújo, M.B. & Whittaker, R.J. (2008) Measurements of area and the (island) species–area relationship: new directions for an old pattern. *Oikos*, 117, 1555-1559. doi:10.1111/j.0030-1299.2008.16808.x
42. Hortal, J. (2008) Uncertainty and the measurement of terrestrial biodiversity gradients. *Journal of Biogeography*, 35, 1355-1356. doi:10.1111/j.1365-2699.2008.01955.x
43. Hortal, J., Jiménez-Valverde, A., Gómez, J.F., Lobo, J.M., & Baselga, A. (2008) Historical bias in biodiversity inventories affects the observed realized niche of the species. *Oikos*, 117, 847-858. doi:10.1111/j.0030-1299.2008.16434.x
44. Jiménez-Valverde, A., Gómez, J.F., Lobo, J.M., Baselga, A. & Hortal, J. (2008). Challenging species distribution models: the case of *Maculinea nausithous* in the Iberian Peninsula. *Annales Zoologici Fennici*, 45, 200-210.
45. Hortal, J., Rodríguez, J., Nieto-Díaz, M. & Lobo, J.M. (2008). Regional and environmental effects on the species richness of mammal assemblages. *Journal of Biogeography*, 35, 1202-1214. doi:10.1111/j.1365-2699.2007.01850.x
46. Nogués-Bravo, D., Rodríguez, J., Hortal, J., Batra, P. & Araújo, M.B. (2008) Climate change, humans and the extinction of the woolly mammoth. *PLoS Biology*, 6, e79. doi:10.1371/journal.pbio.0060079
47. Lobo, J.M., Baselga, A., Hortal, J., Jimenez-Valverde, A. & Gómez, J.F. (2007) How does the knowledge about the spatial distribution of Iberian dung beetle species accumulate over time? *Diversity and Distributions*, 13, 772-780. doi:10.1111/j.1472-4642.2007.00383.x
48. Acevedo, P., Cassinello, J., Hortal, J. & Gortázar, C. (2007) Invasive exotic aoudad (*Ammotragus lervia*) as a major threat to native Iberian ibex (*Capra pyrenaica*): a habitat suitability model approach. *Diversity and Distributions*, 13, 587-597. doi:10.1111/j.1472-4642.2007.00374.x
49. Hawkins, B.A., Diniz-Filho, J.A.F., Bini, L.M., Araújo, M.B., Field, R., Hortal, J., Kerr, J.T., Rahbek, C., Rodríguez, M.Á. & Sanders, N.J. (2007) Metabolic theory and diversity gradients: Where do we go from here? *Ecology*, 88, 1898–1902. doi:10.1890/06-2141.1
50. Hawkins, B. A., Albuquerque, F. S., Araújo, M. B., Beck, J., Bini, L. M., Cabrero-Sañudo, F. J., Castro Parga, I., Diniz-Filho, J. A. F., Ferrer-Castán, D., Field, R., Gómez, J. F., Hortal, J., Kerr, J. T., Kitching, I. J., León-Cortés, J. L., Lobo, J. M., Montoya, D., Moreno, J. C., Olalla-Tárraga, M. Á., Pausas, J. G., Qian, H., Rahbek, C., Rodríguez, M. Á., Sanders, N. J. & Williams, P. (2007) A global evaluation of metabolic theory as an explanation for terrestrial species richness gradients. *Ecology*, 88, 1877-1888. doi:10.1890/06-1444.1
51. Hortal, J., Lobo, J. M. & Jiménez-Valverde, A. (2007) Limitations of biodiversity databases: case study on seed-plant diversity in Tenerife (Canary Islands). *Conservation Biology*, 21, 853-863. doi:10.1111/j.1523-1739.2007.00686.x
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## 6b. Book chapters [12]

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2. Hortal, J. (2011). Geographical variation in the diversity of microbial communities: research directions and prospects for experimental biogeography. In *Biogeography of micro-organisms. Is everything small everywhere?* (ed. by D. Fontaneto), pp. 335–356. Cambridge University Press.
3. Borges, P.A.V., Vieira, V., Mahnert, V., Cardoso, P., Pinto, H., Amaral, J., Wunderlich, J., Taiti, S., Enghoff, H., da Gama, M., Sousa, J.P., Mendes, L.F., Bivar de Sousa, A., Borges, A., Ferreira, M.T., Guerreiro, O., Myles, T., Scheffrahn, R.H., Baz, A., Palma, R., Quartau, J.A., Ribes, J., Franquinho Aguiar, A.M., Pita, M.T., Ilharco, F.A., zur Strassen, R., Ventura, M.d.A.M., Oromí, P., Serrano, A.R.M., Assing, V., Cerny, M., Michelsen, V., Ebejer, M.J., Raposeiro, P., Narchuk, E.P., Bächli, G., Zatwarnicki, T., Pont, A.C., van Zuijlen, J.W., García, C., Pape, T., Smit, J.T., Roháček, J., Menzel, F., Heller, K., Krzeminska, E., Kameneva, E.P., Diaz, S., Báez, M., Karsholt, O., van Achterberg, K., Askew, R.R., Zwakhals, K., Santos, A.M.C., Palma, R., Kameneva, E.P., Amorim, I.R., Bikudo, N., Caldara, R., Fritzén, N., Gaspar, C., Heleno, R., Hortal, J., Lissner, J., Logunov, D., Machado, A., Marcelino, J., Platia, G., Meijer, S.S., Melo, C., Mendonça, E.P., Moniz, J., Pereira, F., Rucker, W., & Soares, A.O. (2010). List of the arthropods (Arthropoda). In *A list of the terrestrial fauna and flora from the Azores* (ed by

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  5. Jiménez-Valverde, A., **Hortal, J.**, Lobo, J. M., Borges, P. A. V., Abreu, C., Franquinho Aguiar, A., Azevedo, E. B., Boieiro, M., Fontinha, S., Roberto, J., Oliveira, P., Sérgio, C., Serrano, A. R. M., Sim-Sim, M. & Nunes, D. (2008) Using predictive models of species distribution to validate biodiversity data in Madeira island - Validação da distribuição de espécies através de modelos preditivos na ilha da Madeira. In: *A list of the terrestrial fungi, flora and fauna of Madeira and Selvagens archipelagos - Listagem dos fungos, flora e fauna terrestres dos arquipélagos da Madeira e Selvagens* (ed. by P. A. V. Borges, C. Abreu, A. M. Franquinho Aguiar, P. Carvalho, R. Jardim, I. Melo, P. Oliveira, C. Sérgio, A. R. M. Serrano & P. Vieira), pp. 27–56. Secretaria Regional do Ambiente e dos Recursos Naturais, Governo Regional da Madeira, Funchal, Madeira, Portugal.
  6. **Hortal, J.**, Nieto, M., Rodríguez, J., & Lobo, J.M. (2005). Evaluating the roles of connectivity and environment on faunal turnover: patterns in recent and fossil Iberian mammals. In *Migration in Organisms. Climate, Geography, Ecology* (ed by A.M.T. Elewa), pp. 301–327. Springer, Berlin.
  7. Nieto, M., **Hortal, J.**, Martínez-Maza, C., Morales, J., Ortiz-Jaureguizar, E., Pelaez-Campomanes, P., Pickford, M., Prado, J.L., Rodríguez, J., Senut, B., Soria, D., & Varela, S. (2005). Historical determinants of mammal diversity in Africa: Evolution of mammalian body weight distribution in Africa and South America during Neogene and Quaternary times. In *African Biodiversity: Molecules, Organisms, Ecosystems* (ed by B.A. Huber, B.J. Sinclair and K.-H. Lampe), pp. 287–296. Springer, New York.
  8. **Hortal, J.**, Borges, P.A.V., Dinis, F., Jiménez-Valverde, A., Chefaoui, R.M., Lobo, J.M., Jarroca, S., Azevedo, E.B., Rodrigues, C., Madrugá, J., Pinheiro, J., Gabriel, R., Cota Rodrigues, F., & Pereira, A.R. (2005). Using ATLANTIS - Tierra 2.0 and GIS environmental information to predict the spatial distribution and habitat suitability of endemic species. In *A list of the terrestrial fauna (Mollusca and Arthropoda) and flora (Bryophyta, Pteridophyta and Spermatophyta) from the Azores* (ed by P.A.V. Borges, R. Cunha, R. Gabriel, A.F. Martins, L. Silva and V. Vieira), pp. 69–113. Direcção Regional do Ambiente and Universidade dos Açores, Horta, Angra do Heroísmo and Ponta Delgada.
  9. Santos, A.M.C., Borges, P.A.V., **Hortal, J.**, Rodrigues, A.C., Medeiros, C., Azevedo, E.B., Melo, C., & Lopes, D.J.H. (2005). Diversidade da fauna de insectos fitófagos e de inimigos naturais em culturas frutícolas da ilha Terceira, Açores: a importância do manejo e da heterogeneidade ambiental. In *A Fruticultura na Macaronésia - O Contributo do projecto INTERFRUTA para o seu desenvolvimento* (ed by D.J.H. Lopes, A. Pereira, A. Mexia, J. Mumford and R. Cabrera), pp. 115–134. Universidade dos Açores, Angra do Heroísmo.
  10. Santos, A.M.C., Borges, P.A.V., **Hortal, J.**, & Lopes, D.J.H. (2005). Riqueza de espécies e diversidade ecológica de himenópteros parasitóides (Hymenoptera, Parasitica) em culturas frutícolas da ilha Terceira (Açores). In *A Fruticultura na Macaronésia - O Contributo do projecto INTERFRUTA para o seu desenvolvimento* (ed by D.J.H. Lopes, A. Pereira, A. Mexia, J. Mumford and R. Cabrera), pp. 137–151. Universidade dos Açores, Angra do Heroísmo.
  11. Nieto, M., Bastir, M., Cabrero-Sañudo, F.J., **Hortal, J.**, Martínez-Maza, C., & Rodríguez, J. (2004). Does evolution evolve? In *Homenaje a Emiliiano Aguirre, volumen de Paleoantropología* (ed by E. Baquedano and S. Rubio Jara), pp. 232–252. Museo Arqueológico Regional de Madrid, Alcalá de Henares, Madrid.
  12. **Hortal, J.** & Lobo, J.M. (2001). A preliminary methodological approach to model the spatial distribution of biodiversity attributes. In *Spatio-temporal modelling of environmental processes*.

Proceedings of the 1st Spanish workshop on spatio-temporal modelling of environmental processes (ed by J. Mateu and F. Montes), pp. 211–229. Publicacions de la Universitat Jaume I, Castelló de la Plana.

### 6c. Papers in peer-reviewed journals not listed in the SCI [16]

1. Ladle, R.J. & Hortal, J. (2013) Mapping species distributions: living with uncertainty. *Frontiers of Biogeography*, 5, 8-9.
2. Kamino, L.H.Y., De Marco Jr, P., Rangel, T.F., Amaral, S., de Siqueira, M.F., De Giovanni, R., Stehmann, J.R. & Hortal, J. (2012) The application of species distribution models in the megadiverse Neotropics poses a renewed set of research questions. *Frontiers of Biogeography*, 4, 7–10.
3. Dawson, M.N. & Hortal, J. (2012) A cure for seeing double? Convergence and unification in biogeography and ecology. *Frontiers of Biogeography*, 4, 3–6.
4. Hortal, J. (2012) Escaping the trap of low sample size in island biogeography. *Frontiers of Biogeography*, 3, 127–129.
5. Hortal, J. (2011) A modelling framework to open the gates of assemblage structure. *Frontiers of Biogeography*, 3, 43.
6. Borges, P.A.V., Cardoso, P., Cunha, R., Gabriel, R., Gonçalves, V., Hortal, J., Martins, A.F., Melo, I., Rodrigues, P., Santos, A.M.C., Silva, L., Triantis, K.A., Vieira, P. & Vieira, V. (2011) Macroecological patterns of species distribution, composition and richness of the Azorean terrestrial biota. *Ecologi@*, 1, 22–35.
7. Fontaneto, D. & Hortal, J. (2008) Do microorganisms have biogeography? *IBS Newsletter*, 6.2, 3-8.
8. Hortal, J. & Lobo, J.M. (2006) Towards a synecological framework for systematic conservation planning. *Biodiversity Informatics*, 3, 16–45.
9. Hortal, J., Lobo, J.M., & del Rey, L. (2006) Distribución y patrones de diversidad de los afódidos en la Comunidad de Madrid (Coleoptera, Scarabaeoidea, Aphodiidae: Aphodiinae y Psammodiinae). *Graellsia*, 62, 441–462.
10. Lobo, J.M. & Hortal, J. (2006) Los Escarabeidos y Geotrupidos de la Comunidad de Madrid: lista de especies, distribución geográfica y patrones de diversidad (Coleoptera, Scarabaeoidea: Scarabaeidae y Geotrupidae). *Graellsia*, 62, 421–440.
11. Nieto, M., Hortal, J., Martínez-Maza, C., Morales, J., & Rodríguez, J. (2003) Variaciones en la riqueza de macromamíferos de España durante el neógeno. *Graellsia*, 59, 299–317.
12. Hortal, J., Lobo, J.M., & Martín-Piera, F. (2003) Una estrategia para obtener regionalizaciones bióticas fiables a partir de datos incompletos: el caso de los Escarabeidos (Coleoptera) Ibérico-Baleares. *Graellsia*, 59, 331–344.
13. Jiménez-Valverde, A. & Hortal, J. (2003) Las curvas de acumulación de especies y la necesidad de evaluar la calidad de los inventarios biológicos. *Revista Ibérica de Aracnología*, 8, 151–161.
14. Lobo, J.M. & Hortal, J. (2003) Modelos predictivos: Un atajo para describir la distribución de la diversidad biológica. *Ecosistemas*, 2003/1.
15. Hortal, J., Cabrero-Sañudo, F.J., & de la Rosa, J.J. (2002) Discusión sobre las especies de *Liothorax* (Coleoptera, Aphodiinae) en la Península Ibérica. Nueva cita para Ciudad Real de *Liothorax cylindricus* (Reiche & Saulcy, 1856). *Boletín de la Sociedad Entomológica Aragonesa*, 31, 111–112.
16. Hortal, J. & Lobo, J.M. (2002) Una metodología para predecir la distribución espacial de la diversidad biológica. *Ecología (n.s.)*, 16, 151–178 + 14 figures.

#### **6d. Other non peer-reviewed articles and papers [8]**

1. Field, R., **Hortal, J.** & Dawson, M.N. (2012) Research letters at the frontiers of biogeography. *Frontiers of Biogeography*, 4, 89–90.
2. **Hortal, J.**, Dawson, M.N. & Field, R. (2012) Making the most of the news and update section: share your views on the most recent research in biogeography. *Frontiers of Biogeography*, 4, 49–50.
3. Dawson, M.N., Field, R. & **Hortal, J.** (2012) Advancing *Frontiers*, with a prospective. *Frontiers of Biogeography*, 4, 1–2.
4. Dawson, M.N., Field, R. & **Hortal, J.** (2011) Advancing *Frontiers*, with a retrospective. *Frontiers of Biogeography*, 3, 1–2.
5. **Hortal, J.** & Dawson, M.N. (2010) *Frontiers of Biogeography*, a rapid forum for biogeographical advances and debate. *Frontiers of Biogeography*, 2, 1–2.
6. **Hortal, J.** & Dawson, M.N. (2009) *Frontiers of Biogeography*, a new frontier for the IBS. *Frontiers of Biogeography*, 1, 1–2.
7. Cassinello, J., Acevedo, P., **Hortal, J.** & Gortázar, C. (2008) Lo que la ciencia nos dice. ¿Podría ser el arruí una amenaza para la cabra montés? *Trofeo*, 455, 38–39.
8. **Hortal, J.** (2002) ¿Quién dirige la política medioambiental española? Sobre la conservación del lince y otras especies algo "cortas". *Boletín de la Sociedad Entomológica Aragonesa*, 31, 277–278.

#### **6e. Books and other publications (Author) [3]**

1. Borges, P.A.V., Rodrigues, A.C., Pereira, F., Santos, A.M.C., & **Hortal, J.** (2006) Biodiversidade de Artrópodes - Ilha Graciosa. ARENA, Ponta Delgada, Azores, Portugal, 16 pp. [Brochure]
2. Borges, P.A.V., **Hortal, J.**, & Gabriel, R. (2005) ATLÂNTICO. Base de dados de biodiversidade dos Açores. Secretaria Regional do Ambiente e do Mar, Angra do Heroísmo, Azores, Portugal, 20 pp. [Brochure]
3. Abad Peiró, S., **Hortal Muñoz, J.**, de Miguel Campanero, O., & Blanco Kroeger, M. (1999) Guía de especies vegetales y avifauna de Tres Cantos. Asociación de Vecinos de Tres Cantos, Tres Cantos, Madrid, Spain.

#### **6e. Books and other publications (Editor) [1]**

1. **Hortal, J.**, Faller, K., Feeley, K., Field, R., Graham, C., Guilhaumon, F. & Gavin, D., eds. (2012) Conference program and abstracts. International Biogeography Society 6th Biennial Meeting – 9-13 January 2013, Miami, Florida, USA. *frontiers of biogeography* Vol. 4, suppl. 1. International Biogeography Society, 230 pp.

#### **6e. Theses [2]**

1. **Hortal, J.** 2004. Selección y Diseño de Áreas Prioritarias de Conservación de la Biodiversidad mediante Sinecología. Inventario y modelización predictiva de la distribución de los escarabeidos coprófagos (Coleoptera, scarabaeoidea) de Madrid. PhD Thesis - Universidad Autónoma de Madrid, Departamento de Biología, Facultad de Ciencias, 333 pages.
2. **Hortal, J.** 2002. Distribución Geográfica de la Riqueza de Especies de Mariposas en Portugal Continental (Lepid. Rhopalocera). Exploración y Comparación de Patrones con Escarabeidos (Col. Scarabaeinae) y Plantas Vasculares a Partir de Modelos Predictivos de Biodiversidad. MSc Thesis - Universidad Autónoma de Madrid, Departamento de Biología, Facultad de Ciencias, 35 pages.

## 7. Communications and seminars

### 7a. Talks by invitation [16]

Authors: Hortal, J.

Title: Advancing maps of ignorance on the distribution of biodiversity

Congress/Workshop: Visualising the future of our planet – Can we do better than heat maps?

Place: Microsoft Research Ltd., Cambridge, UK

Date: 16th April 2012

Authors: Hortal, J.

Title: Podemos usar modelos de distribuição de espécies para objetivos aplicados? Problemas de qualidade de dados, limitações técnicas e conceitos teóricos [Can we use species distribution models for applied purposes? Issues on data quality, technical limitations and theoretical concepts]

Congress/Workshop: Modelos preditivos de distribuição de espécies: Aplicações, desafios e perspectivas [Species distribution models: Applications, challenges and perspectives]

Place: Universidade Federal de Minas Gerais, Belo Horizonte, Brazil

Date: 29th August 2011

Authors: Hortal, J.

Title: Large-scale effects of current and historical climate in the diversity and structure of European assemblages

Congress/Workshop: International Symposium in Modelling of Terrestrial Systems and Evolution – Building interdisciplinary networks

Place: Universidade Federal de Ouro Preto, Minas Gerais, Brazil

Date: 9th May 2011

Authors: Hortal, J., Blanchard, J., Carbone, C., Fontaine, C., Petchey, O.L., Rodríguez, J., Thébault, E. & Van Veen, F.J.F.

Title: Putative networks: Linking community ecology and biogeography

Congress/Workshop: BES Annual Meeting – Thematic Topic: On the synthesis of size- and species-based approaches in community and ecosystem ecology

Place: Leeds University, UK

Date: 8th September 2010

Authors: Hortal, J.

Title: Como são de locais as comunidades locais? A importância do pool de espécies na diversidade e ecologia das assembléias locais [How local are local communities? The importance of the species pool in the diversity and ecology of local assemblages]

Congress/Workshop: Ciclo de Palestras Conhecer e proteger a natureza: 2010 Ano Internacional da Biodiversidade

Place: Universidade dos Açores, Angra do Heroísmo, Terceira, Azores, Portugal

Date: 7th May 2010

Authors: Hortal, J.

Title: Maps of ignorance: uncertainty in the data on species distributions

Congress/Workshop: Measuring changes in species' distributions

Place: CEH Wallingford, UK

Date: 3rd February 2010

## Joaquín Hortal, PhD – Personal *Curriculum Vitae* - 01/10/2013

Authors: **Hortal, J.**

Title: Patterns on the spatial structure of the diversity of microscopic organisms: consequences for species concepts and conservation, and prospects for ecosystem functioning and experimental biogeography  
Congress/Workshop: The importance of being small: does size matter in biogeography? Symposium at the 7th Systematics Association Biennial Conference  
Place: Leiden, The Netherlands  
Date: August 2009

Authors: **Hortal, J.**

Title: Non-stationarity in the relationship with climatic stability reveals strong ice age legacy on European dung beetle diversity gradients  
Congress/Workshop: 1<sup>st</sup> British Dung Beetle Ecology Workshop  
Place: Lancaster, UK  
Date: May 2009

Authors: **Hortal, J.**

Title: On the practical importance of theoretical concepts. Can we map habitat suitability or species presence from occupancy data?  
Congress/Workshop: Spatial modelling and analysis in ecology, evolution and conservation  
Place: Silwood Park, Ascot, UK  
Date: April 2009

Authors: Lobo, J.M., Jiménez-Valverde, A., **Hortal, J.**

Title: Facing the problems of predicting insect distributions  
Congress/Workshop: XXIII International Congress for Entomology  
Place: Durban, South Africa  
Date: July 2008

Authors: **Hortal, J.**

Title: The effect of climate stability in European Scarabidae dung beetles  
Congress/Workshop: Current and past determinants of Western Palearctic biodiversity  
Place: Silwood Park, Ascot, UK  
Date: March 2008

Authors: **Hortal, J.**

Title: Some ideas to study the relationship between community stability, functional structure and the assembly from the regional pool  
Congress/Workshop: A New Research Agenda for Palaeoecology and Macroecology  
Place: Noudar, Portugal  
Date: March 2007

Authors: **Hortal, J.**, Araújo, M. B.

Title: The lack of biodiversity data and the value of surrogates  
Congress/Workshop: Biodiversity Conservation - From Genes to Habitats  
Place: Davos, Switzerland  
Date: November 2006

Authors: **Hortal, J.**

Title: Utilización de información sin ecológica para la selección de Áreas Protegidas  
Congress/Workshop: Métodos de Selecção de Áreas Protegidas: sua Gestão e Conservação da Natureza  
Place: Angra do Heroísmo (Açores), Portugal  
Date: July 2004

## Joaquín Hortal, PhD – Personal *Curriculum Vitae* - 01/10/2013

Authors: Pando, F., **Hortal, J. (speaker)**, Lobo, J. M.

Title: Bases de datos y conservación de la naturaleza. Aplicaciones de la red global de información sobre biodiversidad (GBIF)

Congress/Workshop: Métodos de Seleccção de Áreas Protegidas: sua Gestão e Conservação da Natureza

Place: Angra do Heroísmo (Açores), Portugal

Date: July 2004

Authors: **Hortal, J.**

Title: La importancia de las Vías Pecuarias y Sotos de Ribera para la conservación en la Comunidad de Madrid.

Congress/Workshop: I Jornadas Medioambientales de Tres Cantos

Place: Tres Cantos (Madrid), Spain

Date: November 2000

### **7b. Other talks and oral communications [17]**

Authors: Medina, N.G.; **Hortal, J.**; Lara, F.; Ruíz, A.; Sérgio, C. & Mazimpaka, V.

Title: Environmental correlates and knowledge gaps in the distribution of four epiphytic bryophytes of the Iberian Peninsula

Congress: Congress of the International Association of Bryologists

Place: London, UK

Date: 16-20 July 2013

Authors: **Hortal, J.**; Cianciaruso, M.V.; Barbosa, A.M.; Bini, L.M.; Loyola, R.D.; Rangel, T.F.; Santos, A.M.C. & Diniz-Filho, J.A.F.

Title: Effects of glaciations on the species, phylogenetic and functional diversity of European mammals

Congress: 12th European Ecological Federation (EEF) Congress

Place: Ávila, Spain

Date: 25-29th September 2011

Authors: Chefaoui, R.M.; Lobo, J.M. & **Hortal, J.**

Title: Species distribution models of threatened Iberian invertebrates

Congress: International Biogeography Society Early Career Conference – “Advances in Biogeography”

Place: Oxford, UK

Date: 23-25th September 2011

Authors: Medina, N.G.; Lara, F.; Mazimpaka, V. & **Hortal, J.**

Title: Environment and geographic distance as surrogates of diversity in sampling design: A protocol applied to bryophytes

Congress: XVIII Simposio de Botánica Criptogámica [18th Symposium on Cryptogamic Botany]

Place: Barcelona, Spain

Date: 13-16th July 2011

Authors: Aranda, S.; Gabriel, R.; Borges, P.A.V.; Santos, A.M.C.; **Hortal, J.** & Lobo, J.M.

Title: Bryophyte species richness patterns in macaronesia: Disentangling the role of geographical variables, geological age and climate

Congress: 5th International Biogeography Society Meeting

Place: Iraklion, Crete, Greece

Date: 7-11th January 2011

Authors: **Hortal, J.**

Title: Maps of ignorance: uncertainty in the data on species distributions

Congress: EDIT Young Taxonomist Symposium

Place: Carvoeiro, Lagoa, Portugal

Date: 15th December 2009



## Joaquín Hortal, PhD – Personal *Curriculum Vitae* - 01/10/2013

Authors: Domingo-Quero, T.; **Hortal, J.**; García Becerra, R.; Alonso-Zarazaga, M. A.  
Title: ¿Cuántas especies de coleópteros hay en el Parque Nacional de la Caldera de Taburiente?  
Congress: XII Congreso Ibérico de Entomología.  
Place: Alicante, Spain  
Date: September 2006

Authors: Borges, P. A. V.; **Hortal, J.**  
Title: O papel da diversidade de habitats, dos factores históricos, e geográficos na taxa de especiação dos artrópodes dos Açores.  
Congress: II Congresso Ibérico de Ecologia. Crise da biodiversidade: conhecimento e acção.  
Place: Lisboa, Portugal  
Date: July 2006

Authors: Domingo Quero, T.; **Hortal, J.**; Alonso Zarazaga, M. A.  
Title: Las comunidades de Coleoptera del Parque Nacional de la Caldera de Taburiente: caracterización a nivel de familia  
Congress: XI Congreso Ibérico de Entomología  
Place: Funchal (Madeira), Portugal  
Date: September 2004

Authors: **Hortal, J.**; Lobo, J.M.  
Title: Obtención de estimas de la distribución espacial de la biodiversidad mediante kriging  
Congress: Taller de Sistemas de Información Geográfica y Teledetección en Ecología  
Place: Universidad de Alcalá de Henares, Spain Date: November 2002

Authors: Chefaoui, R. M.; **Hortal, J.**; Lobo, J.M.  
Title: Obtención de mapas de distribución potencial. Análisis factorial de nicho y Biomapper  
Congress: Taller de Sistemas de Información Geográfica y Teledetección en Ecología  
Place: Universidad de Alcalá de Henares, Spain  
Date: November 2002

Authors: **Hortal, J.**; Lobo, J.M.  
Title: Obtención de estimas de la distribución especial de la biodiversidad  
Congress: X Congreso Ibérico de Entomología  
Place: Zamora, Spain Date: September 2002

Authors: **Hortal, J.**; Garcia Pereira, P.; Lobo, J.M.; García Barros, E.  
Title: Comparación de los patrones de diversidad geográfica en Scarabaeinae y Rhopalocera en Portugal a partir de modelos predictivos  
Congress: X Congreso Ibérico de Entomología  
Place: Zamora, Spain Date: September 2002

Authors: **Hortal, J.**; Martín Piera, F; Lobo, J.M. & Cabrero, F.J.  
Title: Propuesta metodológica para la planificación de muestreos sobre zonas pobremente conocidas: el caso de los coleópteros coprófagos (Coleoptera, Scarabaeoidea) en la Comunidad de Madrid  
Congress: IX Congreso Ibérico de Entomología  
Place: Zaragoza , Spain Date: July 2000

Authors: Cabrero, F.J.; Martín Piera, F; Lobo, J.M. & **Hortal, J.**  
Title: Resultados preliminares en la inferencia filogenética de las especies ibéricas de la subfamilia Aphodiinae (Coleoptera, Scarabaeoidea, Aphodiidae) a partir de caracteres morfológicos  
Congress: IX Congreso Ibérico de Entomología  
Place: Zaragoza , Spain Date: July 2000

## Joaquín Hortal, PhD – Personal *Curriculum Vitae* - 01/10/2013

Authors: **Hortal, J.**, Martín-Piera, F. & Lobo, J.M.

Title: Variación geográfica de la diversidad de escarabeidos coprófagos (Col., Scarabaeoidea): Análisis de un gradiente geográfico S-N en Portugal

Congress: VIII Congreso Ibérico de Entomología.

Place: Évora, Portugal Date: September 1998

Authors: **Hortal, J.**, Lobo, J.M. & Martín-Piera, F.

Title: ¿Es posible predecir la distribución geográfica de una especie mediante la utilización de variables ambientales actuales? El caso de *Onthophagus stylocerus* Graëlls, 1851

Congress: VIII Congreso Ibérico de Entomología.

Place: Évora, Portugal Date: September 1998

### 7c. Poster communications [29]

Authors: **Hortal, J.**, Santos, A.M.C., Bini, L.M., Barbosa, A.M., Faleiro, F., Gouveia, S. Loyola, R.D., Rangel, T.F., Diniz-Filho, J.A.F. & Cianciaruso, M.V.

Title: Effects of historical climate and human impacts on the species, phylogenetic and trait diversity of European mammals

Congress: INTECOL 2013

Place: London, UK

Date: 18-23 August 2013

Authors: Calatayud, J., **Hortal, J.**, Turin, H., Penev, L.D., Casale, A., Ortuño, V. & Rodríguez, M.A.

Title: Mecanismos ecológicos e históricos subyacentes a patrones de diversidad de escarabajos del género *Carabus*

Congress: XI Congreso Nacional de la Asociación Española de Ecología Terrestre, Avances recientes en Macroecología session

Place: Pamplona/Iruña, Spain

Date: 6-10 May 2013

Authors: **Hortal, J.**, Rangel, T.F., Lobo, J.M., Santos, A.M.C. & Diniz-Filho, J.A.F.

Title: Deconstructing biodiversity gradients into species- and assemblage-level processes: Climate and body size species sorting plus macroecological effects on the species richness of European scarab dung beetles

Congress: 6th International Biogeography Society Meeting

Place: Miami, Florida, USA

Date: 8-13th January 2013

Authors: Borges, P.A.V., Rigal, F., Rego, C., Crespo, L., Cardoso, P., Gaspar, C., Mendonça, E., Terzopoulou, S., Amorim, I., **Hortal, J.**, Pereira, F., Santos, A.M.C., Serrano, A.R.M., Parmakelis, A., Whittaker, R.J. & Triantis, K.A.

Title: Temporal change in arthropod forest assemblages in the Azores: contrasting response in predators and herbivores

Congress: 6th International Biogeography Society Meeting

Place: Miami, Florida, USA

Date: 8-13th January 2013

Authors: Chozas, S.; **Hortal, J.** & Correia, O.

Title: A multilevel approach for assessing plant taxa as indicators of biodiversity and habitat quality in Mediterranean psammophilous vegetation

Congress: 12th European Ecological Federation (EEF) Congress

Place: Ávila, Spain

Date: 25-29th September 2011

## Joaquín Hortal, PhD – Personal *Curriculum Vitae* - 01/10/2013

Authors: Tessarolo, G.; **Hortal, J.** & Rangel, T.F.

Title: Avaliando a incerteza associada ao tipo de amostragem nos modelos de distribuição de espécies [Assessing the uncertainty on species distribution models associated to survey design]

Congress/Workshop: Modelos preditivos de distribuição de espécies: Aplicações, desafios e perspectivas [Species distribution models: Applications, challenges and perspectives]

Place: Universidade Federal de Minas Gerais, Belo Horizonte, Brazil

Date: 29-30th August 2011

Authors: **Hortal, J.**, Bini, L.M., Rangel, T.F., Araújo, M.B., Bernard, R., Grenyer, R., Hawkins, B.A., Lobo, J.M., Meiri, S., Nogués-Bravo, D., Normand, S., Rahbek, C., Olalla-Tárraga, M.Á., Rodríguez, M.Á., Svenning, J.-C., Whittaker, R.J. & Diniz-Filho, J.A.F.

Title: Current climate, climate change since Last Glacial Maximum and diversity gradients throughout Europe

Congress: 5th International Biogeography Society Meeting

Place: Iraklion, Crete, Greece

Date: 7-11th January 2011

Authors: Medina, N.G., Albertos, B., Lara, F., Mazimpaka, V., Garilleti, R., Draper, D. & **Hortal, J.**

Title: Climate shapes epiphytic bryophyte diversity in the edge of the Mediterranean

Congress: 5th International Biogeography Society Meeting

Place: Iraklion, Crete, Greece

Date: 7-11th January 2011

Authors: Olalla-Tárraga, M.A., McInnes, L., Bini, L.M., Diniz-Filho, J.A.F., Fritz, S.A., Hawkins, B.A., **Hortal, J.**, Orme C.D.L., Rahbek, C., Rodríguez M.A. & Purvis, A.

Title: Climatic niche conservatism and the macroevolutionary dynamics in species' range boundaries: Congruence across mammals and amphibians globally

Congress: 5th International Biogeography Society Meeting

Place: Iraklion, Crete, Greece

Date: 7-11th January 2011

Authors: Santos, A.M.C., Quicke, D.L.J., Borges, P.A.V., Besnard, G., Fontaine, C. & **Hortal, J.**

Title: Using molecular techniques in ecology and island biogeography: Comparing island and mainland parasitoid communities of Macaronesia

Congress: 5th International Biogeography Society Meeting

Place: Iraklion, Crete, Greece

Date: 7-11th January 2011

Authors: Serrano, A.R.M., Boieiro, M., Aguiar, C.A.S., Borges, P.A.V., Cardoso, Pedro, Franquinho Aguiar, A.F., Gaspar, C., **Hortal, J.**, Jiménez-Valverde, A., Martins da Silva, P., Menezes, D., Pereira, F., Rego, C., Santos, A.M.C. & Sousa, J.P.

Title: Conflict between human activities and the conservation of island endemics in a global biodiversity hotspot

Congress: 5th International Biogeography Society Meeting

Place: Iraklion, Crete, Greece

Date: 7-11th January 2011

Authors: Varela, S., Lobo, J.M. & **Hortal, J.**

Title: Can we use species distribution modelling to study the past distributions of species?

Congress: 5th International Biogeography Society Meeting

Place: Iraklion, Crete, Greece

Date: 7-11th January 2011

## Joaquín Hortal, PhD – Personal *Curriculum Vitae* - 01/10/2013

Authors: Barbosa A.M., Sillero, N. & **Hortal, J.**

Title: Concordância entre atlas e áreas de distribuição a diferentes escalas: o caso da herpetofauna ibérica

Congress: XI Congreso Luso-Español / XV Congreso Español de Herpetología

Place: Seville, Spain

Date: 6-9th October 2010

Authors: **Hortal, J.**, Triantis, K. A., Meiri, S., Thébault, E., Sfenthourakis, S.

Title: Species richness increases with habitat diversity

Congress: Evolutionary islands 150 years after Darwin

Place: Leiden, The Netherlands

Date: February 11-13 2009

Authors: Santos, A. M. C., Triantis, K. A., Borges, P. A. V., Jones, O. R., Quicke, D. L. J., Whittaker, R. J., **Hortal, J.**

Title: Are species-area relationships from entire archipelagos congruent with those of their constituent islands?

Congress: Evolutionary islands 150 years after Darwin

Place: Leiden, The Netherlands

Date: February 11-13 2009

Authors: **Hortal, J.**, Diniz-Filho, J. A. F., Bini, L. M., Rodríguez, M. Á., Baselga, A., Nogués-Bravo, D., Hawkins, B. A., Lobo, J. M.

Title: Non-stationarity of climatic stability reveals strong ice age legacy on dung beetle diversity gradients

Congress: Fourth Biennial Meeting of The International Biogeography Society

Place: Mérida, México

Date: January 8-12 2009

Authors: Santos, A. M. C., **Hortal, J.**, Triantis, K. A., Jones, O. R., Borges, P. A. V., Quicke, D. L. J.

Title: Global patterns in the niche width of island parasitic wasps

Congress: Fourth Biennial Meeting of The International Biogeography Society

Place: Mérida, México

Date: January 8-12 2009

Authors: Santos, A. M. C., **Hortal, J.**, Triantis, K. A., Jones, O. R., Borges, P. A. V., Quicke, D. L. J.

Title: Species area curves from entire archipelagos are congruent with those of their constituent islands

Congress: British Ecological Society 2008 Annual Meeting

Place: London, UK

Date: September 3-5 2008

Authors: Santos, A. M. C., **Hortal, J.**, Triantis, K. A., Jones, O. R., Borges, P. A. V., Quicke, D. L. J.

Title: Which island parasitoid faunas are evenly sampled? A case study using the Taxapad database on Ichneumonoidea (Hymenoptera)

Congress: XXIII International Congress for Entomology

Place: Durban, South Africa

Date: July 6-12 2008

Authors: **Hortal, J.**, Rodríguez, J., Nieto-Díaz, M., Lobo, J. M.

Title: Regional and climatic effects on mammal local species richness at global extent

Congress: Third International Biogeography Society Conference

Place: Tenerife, Canary Islands, Spain

Date: January 9-13 2007

## Joaquín Hortal, PhD – Personal *Curriculum Vitae* - 01/10/2013

Authors: **Hortal, J.**, Rodríguez, J., Nogués-Bravo, D., Araújo, M. B. Rahbek, C.  
Title: Species pool effects on the functional structure of African mammal assemblages  
Congress: Third International Biogeography Society Conference  
Place: Tenerife, Canary Islands, Spain  
Date: January 9-13 2007

Authors: Borges, P. A. V. **Hortal, J.**  
Title: Factors driving arthropod speciation at the Azorean Archipelago  
Congress: Third International Biogeography Society Conference  
Place: Tenerife, Canary Islands, Spain  
Date: January 9-13 2007

Authors: **Hortal, J.**, Rodríguez, J., Nieto-Díaz, M., Lobo, J. M.  
Title: Broad-Extent Regional and Contemporary Effects on Mammal Communities  
Congress: Macroecological Tools for Global Change Research  
Place: Postdam, Germany  
Date: August 2006

Authors: **Hortal, J.**, Lobo, J.M.  
Title: Simple things work better. Could assemblage descriptors be a good conservation surrogate?  
Congress: DanBIF Conference on Biodiversity at the Ecosystem Level  
Place: Aarhus, Denmark  
Date: April 2006

Authors: Acevedo, P., **Hortal, J.**, Cassinello, J.  
Title: Using ecological niche factor analysis modelling to study the realized niche and the spatial relationships between potentially competitive ungulate species  
Congress: Predictive modelling of Species distributions. New Tools for the XXI Century  
Place: Baeza (Jaén), Spain  
Date: November 2005

Authors: Jiménez-valverde, A., Lobo, J.M., **Hortal, J.**  
Title: Effects of threshold criteria, prevalence, sample size and false absences on the reliability of distributional predictive models  
Congress: Predictive modelling of Species distributions. New Tools for the XXI Century  
Place: Baeza (Jaén), Spain  
Date: November 2005

Authors: Santos, A.M.C., Borges, P.A.V., **Hortal, J.**, Medeiros, C., Azevedo, E.B., Lopes, D.J.H.  
Title: Factores ecológicos e de manejo associados à abundância e riqueza de artrópodes nas culturas frutícolas da ilha Terceira (Açores)  
Congress: IV Congresso Nacional de Entomologia Aplicada  
Place: Bragança, Portugal  
Date: October 2005

Authors: Nieto, M.; **Hortal, J.**; Martínez-Maza, C., Morales, J., Ortiz-Jaureguizar, E., Peláez-Campomanes, P., Pickford, M., Prado, J. L., Rodríguez, J., Senut, B., Soria, D. y Varela, S.  
Title: Historical determinants of mammal diversity in Africa: evolution of mammalian body weight distribution in Africa and South America during Neogene and Quaternary times  
Congress: 5th International Symposium on Tropical Biology. African Biodiversity - Molecules, Organisms, Ecosystems  
Place: Bonn, Germany  
Date: May 2004

Authors: **Hortal, J.**; Lobo, J.M.

Title: A preliminary methodological approach to model the spatial distribution of biodiversity attributes

Congress: I Spanish Workshop on Spatio-temporal Modelling of Environmental processes

Place: Alicante, Spain

Date: October 2001

#### **7d. Seminars and talks in academic institutions [17]**

Authors: **Hortal, J.**

Title: Large-scale effects of current and historical climate in the diversity and structure of European assemblages

Program: Seminarios conjuntos Investigación en Ecología y Evolución UB e IBE (CSIC-UPF)

Place: Museo de Ciéncias Naturals, Barcelona, Spain

Date: 5th February 2013

Authors: **Hortal, J.**

Title: Efeitos a grande escala do clima histórico e atual na diversidade e estrutura das assembleias Europeias [Large-scale effects of current and historical climate in the diversity and structure of European assemblages]

Program: Mestrado em Biodiversidade neotropical e Biogeografia

Place: Universidade Federal de Alagoas, Maceió, Brazil

Date: 16th March 2012

Authors: **Hortal, J.**

Title: Large-scale effects of current and historical climate in the diversity and structure of European assemblages

Program: Seminarios Investigación MNCN

Place: Museo Nacional de Ciencias Naturales (CSIC), Madrid, Spain

Date: 17th February 2012

Authors: **Hortal, J.**

Title: Efeitos a grande escala do clima histórico e atual na diversidade e estrutura das assembleias Europeias [Large-scale effects of current and historical climate in the diversity and structure of European assemblages]

Program: Conferências CBA

Place: Centro de Biologia Ambiental, Faculdade de Ciências da Universidade de Lisboa, Portugal

Date: 9th January 2012

Authors: **Hortal, J.**

Title: Combinando biogeografia e ecologia de comunidades [Combining biogeography and community ecology]

Program: Programa de Pós-Graduação em Ecologia e Evolução

Place: Universidade Federal de Goiás, Goiania, Brazil

Date: November 2011

Authors: **Hortal, J.**

Title: Efeitos a grande escala do clima histórico e atual na diversidade e estrutura das assembleias Europeias [Large-scale effects of current and historical climate in the diversity and structure of European assemblages]

Program: Pós-Graduação em Ecologia Aplicada

Place: Departamento de Biologia, Universidade Federal de Lavras, Minas Gerais, Brazil

Date: 23rd August 2011

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Authors: **Hortal, J.**

Title: Efeitos a grande escala do clima histórico e atual na diversidade e estrutura das assembleias Europeias [Large-scale effects of current and historical climate in the diversity and structure of European assemblages]

Place: DEBIO – Instituto de Ciências Exatas e Biológicas, Universidade Federal de Ouro Preto, Minas Gerais, Brazil

Date: 17th May 2011

Authors: **Hortal, J.**

Title: Latitudinal gradients in Northern continents: a tale of water and energy, or climate stability and postglacial dispersal? The case of European Scarabaeidae dung beetles

Place: DST-NRF Centre of Excellence for Invasion Biology, Stellenbosch University, South Africa

Date: July 2008

Authors: **Hortal, J.**

Title: Can we measure functional diversity/structure from a macroecological perspective? (and its effect on ecosystem function?)

Program: CPB Lunchtime Seminar Series

Place: NERC Centre for Population Biology, Imperial College London, Silwood Park, Ascot, UK

Date: January 2008

Authors: **Hortal, J.**

Title: Efeitos do conjunto regional de espécies sobre a estrutura funcional de assembleias de mamíferos africanos [Species Pool Effects on the Functional Structure of African Mammal Assemblages]

Program: Programa de Pós-Graduação em Ecologia e Evolução

Place: Universidade Federal de Goiás, Goiania, Brazil

Date: November 2007

Authors: **Hortal, J.**

Title: Species Pool Effects on the Functional Structure of African Mammal Assemblages

Program: Natural History Museum Scientific Seminars

Place: Museo Nacional de Ciencias Naturales (CSIC), Madrid, Spain

Date: October 2007

Authors: **Hortal, J.**

Title: Species Pool Effects on the Functional Structure of African Mammal Assemblages

Program: OUCE Biodiversity Research Seminar Series

Place: Oxford University Centre for the Environment, Oxford, UK

Date: May 2007

Authors: **Hortal, J.**

Title: Broad-extent determinants of richness and structure of mammal assemblages

Program: CPB Lunchtime Seminar Series

Place: NERC Centre for Population Biology, Imperial College London, Silwood Park, Ascot, UK

Date: February 2007

Authors: **Hortal, J.**

Title: Broad-extent determinants of richness and structure of mammal assemblages

Place: Center for Macroecology, University of Copenhagen, Denmark

Date: June 2006

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Authors: **Hortal, J.**

Title: Large-scale determinants of mammal community distributions – The role of history

Program: OUCE Biodiversity Research Seminar Series

Place: Oxford University Centre for the Environment, Oxford, UK

Date: september 2004

Authors: **Hortal, J.**

Title: Obtención de estimas de la distribución espacial de la biodiversidad [Estimating the spatial distribution of biodiversity]

Place: Museo Nacional de Ciencias Naturales (CSIC), Madrid, Spain

Date: May 2002

Authors: **Hortal, J.**, Lobo, J. M.

Title: Biogeografía y Conservación. Aplicaciones teóricas a problemas prácticos [Biogeography and Conservation. Theoretical applications to practical problems]

Place: Centro de Investigaciones Ambientales de la Comunidad de Madrid Fernando González Bernáldez, Soto del Real, Spain

Date: July 2001



## 8. Academic experience

### 8a. Participation in academic committees

Since June 2012 – Member of the Academic Commission of the Official Program of "Doctorado en Ecología. Conservación y Restauración de Ecosistemas" [Phd in Ecology, Conservation and Ecosystem Restoration], distinguished with Mention of Excellence by the Spanish Ministry of Education (Ref. MEE2011-0442), jointly offered by Universidad de Alcalá de Henares (coordinator), Universidad Complutense de Madrid, Universidad Politécnica de Madrid, and Universidad Rey Juan Carlos.

### 8b. Supervisor

#### 8b.1. PhD Supervisor [2 finished, 7 ongoing]

Indradatta de Castro-Arazola, PhD at the Museo Nacional de Ciencias Naturales (CSIC) (Madrid, Spain). Thesis provisory title: "Diversidad y estructura de las comunidades de escarabeidos coprófagos (Coleoptera, Scarabaeoidea) del Paleártico Occidental" [Diversity and structure of the Western Palearctic scarab dung beetle (Coleoptera, Scarabaeoidea) communities]. Co-supervisor: Dr. Francisco Sánchez-Piñero, Dpto. Zoología, Universidad de Granada, Spain; expected dates 2013-2016.

Joaquín M. Calatayud Ortega, PhD at the Departamento de Ecología, Universidad de Alcalá (Spain). Project: "Gradientes espaciales e impactos del cambio global sobre el tamaño corporal de insectos" [Spatial gradients and global change impacts on insect body size]. Co-supervisor: Miguel Ángel Rodríguez, Dpto. Ecología, Universidad de Alcalá; expected dates 2013-2017.

Verónica Rocío Espinoza Zaruma, PhD at the Museo Nacional de Ciencias Naturales (CSIC) (Madrid, Spain). Thesis provisory title: "Efectos del Cambio Climático sobre las comunidades de escarabeidos coprófagos (Coleoptera, Scarabaeoidea) a lo largo de gradientes de altitud" [Climate change effects on scarab dung beetle (Coleoptera, Scarabaeoidea) communities along altitudinal gradients]. Co-supervisor: Dr. Francisco J. Cabrero-Sañudo, Dpto. Zoología y Antropología Física, Universidad Complutense de Madrid, Spain; expected dates 2011-2015.

Cristina de Oliveira Araújo, PhD at the Postgraduate Program "Ecologia" [Ecology], Universidade Federal do Rio de Janeiro (Brazil). PhD Thesis provisory title: "Predição dos efeitos das mudanças climáticas na estrutura altitudinal das comunidades de escaravelhos coprófagos do Parque Nacional de Itatiaia (Rio de Janeiro, Brasil)" [Predicting climate change effects on the altitudinal structure of dung beetle communities at Itatiaia National Park (Rio de Janeiro, Brazil)]. Co-supervisors: Dr. Ricardo Monteiro, Dpto. Ecologia, Universidade Federal do Rio de Janeiro, Brazil (main) and Júlio Louzada, Universidade Federal de Lavras, Brazil; expected dates 2011-2014.

Geiziane Tessarolo, PhD at the Postgraduate Program "Ecologia e Evolução" [Ecology and Evolution], Universidade Federal de Goiás (Brazil). PhD Thesis provisory title: "Quantificando a incerteza de diferentes fontes em modelagem de distribuição" [Quantifying different sources of uncertainty in species distribution modelling]. Co-supervisor: Dr. Thiago F. Rangel, Dpto. Ecologia, ICB, Universidade Federal de Goiás, Brazil; expected dates 2011-2014.

Sergio Chozas Vinuesa, PhD at the CBA -- Centro de Biologia Ambiental (Centre for Environmental Biology), Faculdade de Ciências da Universidade de Lisboa (Portugal). PhD Thesis provisory title: "Assessing the utility of several plant taxa as indicators of biodiversity and habitat quality for

conservation purposes in sand dune habitats". Co-supervisor: Dr. Otília S. Correia, CBA, FCUL, Portugal; expected dates 2010-2014.

Nagore García Medina, PhD at the Departamento de Biología (Sección Botánica), Universidad Autónoma de Madrid (UAM, Spain). PhD Thesis provisory title: "Diversidad, biogeografía y estado de conservación de los briófitos epifitos de los bosques mediterráneos de la península Ibérica" [Diversity, biogeography and conservation status of the epiphytic bryophytes from the Mediterranean forests of the Iberian Peninsula]. Co-supervisors: Dr. Francisco Lara García (main) and Dr. Vicente Mazimpaka Nibarere, UAM, Spain; expected dates 2009-2012.

Suraya Merí Vargas Rodríguez, PhD at the Departamento de Ciencias Ambientales, Facultad de Ciencias del Medio Ambiente, Universidad de Castilla-La Mancha (UCLM, Spain). Thesis provisory title: "Biogeografía y conservación de Noctuidos ibéricos (Lepidoptera, Noctuidae)" [Biogeography and conservation of Iberian Noctuids (Lepidoptera, Noctuidae)]. Co-supervisor: Dr. José Luis Yela (main), UCLM, Spain; expected dates 2007-2012.

Sidney Feitosa Gouveia, PhD at the Postgraduate Program "Ecologia e Evolução" [Ecology and Evolution], Universidade Federal de Goiás (Goiânia, Brazil). Thesis title: "Origem e natureza de padrões macroecológicos em anfíbios: antigas questões, novas abordagens" [Origin and nature of macroecological patterns in amphibians: old questions, new approaches]. Co-supervisor: Dr. José Alexandre F. Diniz-Filho (main), Dpto. Ecologia, ICB, Universidade Federal de Goiás, Brazil. 2010-2014; Thesis defended 7<sup>th</sup> February 2013 [No corrections, maximum qualification].

Rosa María Chefaoui, PhD at the Museo Nacional de Ciencias Naturales (CSIC) (Madrid, Spain). Thesis title: "Modelos predictivos aplicados a la conservación de invertebrados protegidos Ibero-baleares" [Predictive models applied to the conservation of Ibero-Balearic protected invertebrates]. Co-supervisor: Dr. Jorge M. Lobo (main), MNCN, CSIC, Spain. 2005-2010; Thesis defended 5<sup>th</sup> May 2010, Universidad Autónoma de Madrid; Qualification: Sobresaliente *cum laude* [Pass with merit, maximum qualification].

### **8b.2. MSc/MRes Supervisor [2 finished]**

Alice Francener Nogueira Gonzaga, Mestrado em Ecologia e Evolução [MSc in Ecology and Evolution], Universidade Federal de Goiás (Brasil). Tentative Thesis title: "Padrões globais de descrição de espécies e revisão taxonômica de morcegos (Mammalia, Chiroptera)" [Global patterns in the description of species and taxonomic revisions of bats (Mammalia, Chiroptera)]. Co-supervisor: Daniel Brito, Universidade Federal de Goiás (Brasil). May 2011–March 2013; defended 22 March 2013 [No corrections, maximum qualification].

Carolina Ureta Sánchez, MSc in Environmental Technology, Imperial College London, Faculty of Natural Sciences, Centre for Environmental Policy. MSc Thesis title: "Developing Conservation Strategies for two endangered Mexican cacti under Climate Change". Co-supervisors: Jon Knight, Imperial College London (UK); Carlos Martorell Delgado, UNAM (Mexico). March-June 2007; defended September 2007 [No corrections, maximum qualification].

### **8b.3. Supervisor for short academic stays**

Jairo Patiño, Institute of Botany, University of Liège, Liège, Belgium. Host for a 3-week academic stay at the Museo Nacional de Ciencias Naturales and Real Jardín Botánico (CSIC) (June 2013). Short stay funded by the SYNTHESYS program to work on the island biogeography of bryophytes.

Miguel Ángel Olalla-Tárraga, Departamento de Ecología, Universidad de Alcalá de Henares, Spain. Host for a 16-week academic stay at the NERC Centre for Population Biology, Silwood Park Campus, Imperial College London (May-September 2008). Short stay within his PhD, to work on the effects

of phylogenetic niche conservatism on amphibian responses to climate. PhD carried out at the above institution, under the supervision of Miguel Ángel Rodríguez.

## 8c. Referee

### 8c.1. PhD dissertations [13]

- September 2013 – Jury member, PhD Thesis. Paula Arribas Blázquez, Title: “Evolutionary ecology, biogeography and conservation of water Beetles in Mediterranean saline ecosystems”. Departamento de Ecología e Hidrología, Universidad de Murcia, Spain.
- March 2012 – Jury member, PhD Thesis. Fernanda Melo Carneiro, Title: “Determinantes da estrutura de comunidades no fitoplâncton em diferentes escalas espaciais” [Determinants of fitoplankton community structure at different spatial scales]. Post-Graduate Program “Ecologia e Evolução” [Ecology and Evolution], Universidade Federal de Goiás, Brazil.
- December 2011 – Jury member, PhD Thesis. Ignacio Morales Castilla, Title: “Niche conservatism and evolutionary determinants of terrestrial vertebrate diversity patterns”. Departamento de Ecología, Universidad de Alcalá de Henares, Spain.
- April 2011 – Jury member, PhD Thesis. Leandro Juen, Title: “Bionomia de Odonata: Implicações Ecológicas na distribuição de riqueza, na diversidade beta e no uso como indicadores ambientais” [Bionomy of Odonata: Ecological implications in the distribution of richness, beta diversity and use as environmental indicators]. Post-Graduate Program “Ecologia e Evolução” [Ecology and Evolution], Universidade Federal de Goiás, Brazil.
- February 2011 – Jury member, PhD Thesis. Leandro Juen, Title: “Grandes rios e a distribuição de Odonata na Amazônia: Similaridade de composição, limitação à dispersão e endemismo” [Large Rivers and Odonata distribution at Amazonia: Compositional similarity, dispersal limitation and endemism]. Post-Graduate Program “Ecologia e Evolução” [Ecology and Evolution], Universidade Federal de Goiás, Brazil.
- November 2010 – Jury member, PhD Thesis. Natália Mundim Tôrres, Title: “Avaliação de modelos de distribuição de espécies e sua aplicação na conservação da onça-pintada (*Panthera onça*)” [Evaluation of species distribution models and their application to the conservation of the jaguar (*Panthera onça*)]. Post-Graduate Program “Ecologia e Evolução” [Ecology and Evolution], Universidade Federal de Goiás, Brazil.
- September 2010 – Jury member, PhD Thesis. Guilherme de Oliveira, Title: “Macroecologia, biogeografia da conservação e mudanças climáticas do semi-árido brasileiro (bioma Caatinga)” [Macroecology, conservation biogeography and climate change at the Brazilian Semi-Arid (Caatinga biome)]. Post-Graduate Program “Ecologia e Evolução” [Ecology and Evolution], Universidade Federal de Goiás, Brazil.
- November 2009 – External referee, pre-acceptance, PhD Thesis *Doctor Europeus*. Javier Gutiérrez Illán, Title: “Efectos del cambio global sobre las poblaciones de lepidópteros de la Sierra de Guadarrama: elaboración de modelos predictivos” [Global change effects on lepidopteran populations at the Sierra de Guadarrama mountain range: development of predictive models]. Escuela superior de Ciencias Experimentales y Tecnología (ESCET), Universidad Rey Juan Carlos, Móstoles, Spain.
- October 2009 – Jury member, PhD Thesis. Fabio Suzart de Albuquerque, Title: “Patrones biogeográficos de la distribución de plantas vasculares en Gran Bretaña” [Biogeographical patterns in the distribution of vascular plants in Great Britain]. Departamento de Ecología, Universidad de Alcalá de Henares, Spain.
- December 2008 – External referee, pre-acceptance, PhD Thesis *Doctor Europeus*. Miguel Ángel Olalla-Tárraga, Title: “On the biogeography of vertebrate body size: ecological and evolutionary insights from assemblage-level patterns” Departamento de Ecología, Universidad de Alcalá de Henares, Spain.

- September 2008 – External referee, jury member, PhD Thesis. Jesús Romero Samper, Title: “Las comunidades de coleópteros escarabeidos coprófagos (Coleoptera, Scarabaeoidea) del Medio Atlas (Marruecos): Influencia del tipo de hábitat, altitud y estacionalidad. Análisis comparado de su estructura” [Scarab dung beetle communities (Coleoptera Scarabaeoidea) from the Middle Atlas (Morocco): Effects of habitat, altitude and seasonality. Analysis of their structure]. Departamento de Zoología y Antropología Física, Facultad de Ciencias Biológicas, Universidad Complutense de Madrid, Spain.
- July 2008 – Jury member, PhD Thesis. Noelia Zafra Calvo, Title: “Planificación sistemática de la conservación en la isla de Bioko, Guinea Ecuatorial” [Systematic Conservation Planning on Bioko Island, Equatorial Guinea]. Departamento de Ecología, Universidad de Alcalá de Henares, Spain.
- July 2006 – External referee, pre-acceptance, PhD Thesis. Pelayo Acevedo Lavandera, Title: “Ecogeografía de la cabra montés (*Capra pyrenaica*): relación con otros ungulados en simpatria en el centro-sur de la península ibérica” [Ecogeography of the Iberian ibex (*Capra pyrenaica*): relationship with other sympatric ungulates in the centre-south of the Iberian Peninsula] PhD Program “Biología y Teconología de los Recursos Cinegéticos” [Biology and Technology of Game Resources], Universidad de Castilla-La Mancha, Spain.

### **8c.2. MSc dissertations [5]**

- July 2011 – External referee, jury member, MSc Thesis. Daniella Frensel de Moraes Borges, Title: “Padrões de variação na riqueza de espécies ao longo de gradientes altitudinais: uma revisão multi-taxonômica” [Patterns of species richness variation along altitudinal gradients: a multi-taxa review]. Post-Graduate Program “Ecologia” [Ecology], Universidade de Brasília, Brazil.
- June 2011 – External referee, jury member, MSc Thesis. Cristina Costa Telhado Pereira, Title: “Assimetria flutuante, herbivoria e polinização em Melastomataceae” [Fluctuating asymmetry, herbivory and pollination in Melastomataceae]. Post-Graduate Program “Ecologia, Conservação e Manejo da Vida Silvestre” [Ecology, Conservation and Wildlife Management], Universidade Federal de Minas Gerais, Brazil.
- May 2011 – Internal referee, jury member, MSc Thesis. Fernando Landa Sobral, Title: “Regras de assembléia em aves do cerrado: Estrutura funcional em diferentes escalas espaciais” [Assembly rules in Cerrado birds: Functional structure at different spatial scales]. Post-Graduate Program “Ecologia e Evolução” [Ecology and Evolution], Universidade Federal de Goiás, Brazil.
- November 2009 – External referee, pre-acceptance, MSc Thesis. René Wolmarans, Title: “Investigating the influence of data quality on ecological niche models for alien plant invaders”. Faculty of Natural and Agricultural Science, University of Pretoria, South Africa.
- November 2007 – External referee, jury member, MSc Thesis. Marcel Müller Fernandes Pereira da Silva, Title: “Padrões espaciais da riqueza de espécies no cerrado através da seleção de modelos utilizando o critério de Akaike (AIC)” [Spatial species richness patterns at the cerrado region through model selection using the Akaike criterion (AIC)]. Post-Graduate Program “Ecologia e Evolução” [Ecology and Evolution], Universidade Federal de Goiás, Brazil.

### **8c.3. Other MSc-level projects/dissertations [7]**

- March 2012 – Internal referee, jury member, Qualificação para o Doutorado [PhD transfer report]. Sidney Feitosa Gouveia, Title: “Origem e natureza da diversidade global de anfíbios: antigas questões, novas abordagens” [Origin and nature of global amphibian diversity: old questions, new approaches]. Post-Graduate Program “Ecologia e Evolução” [Ecology and Evolution], Universidade Federal de Goiás, Brazil.

- August 2011 – External referee, jury member, Qualificação para o Mestrado [MSc transfer report], MSc Thesis Project. Wallace Beiroz Imbrosio da Silva, Title: “Resposta da diversidade funcional de Scarabaeinae (Coleoptera:Scarabaeidae) às alterações ambientais na floresta amazônica” [Response of Scarabaeinae functional diversity (Coleoptera:Scarabaeidae) to the environmental changes in the Amazonian rainforest]. Post-Graduate Program “Ecologia Aplicada” [Applied Ecology], Universidade Federal de Lavras, Brazil.
- August 2011 – External referee, jury member, Qualificação para o Mestrado [MSc transfer report], MSc Thesis Project. Antônio César Medeiros de Queiroz, Title: “Comunidades de formigas após distúrbios por mineração: Bioindicação de impacto e de recuperação” [Ant communities after mining disturbance: Bioindication of impact and recovery]. Post-Graduate Program “Ecologia Aplicada” [Applied Ecology], Universidade Federal de Lavras, Brazil.
- June 2011 – Internal referee, jury member, Qualificação para o Doutorado [PhD transfer report]. Matheus de Souza Lima-Ribeiro, Title: “Mudanças climáticas, expansão humana e a extinção da megafauna durante o Quaternário Tardio no continente americano” [Climate changes, human expansion and the megafauna extinction during Late Quaternary in the American continent]. Post-Graduate Program “Ecologia e Evolução” [Ecology and Evolution], Universidade Federal de Goiás, Brazil.
- April 2011 – External referee, jury member, Qualificação para o Doutorado [PhD transfer report]. Ricardo Dobrovolski, Title: “O papel da agricultura nas extinções modernas: uma abordagem macroecológica” [The role of agriculture in modern extinctions: a macroecological approach]. Post-Graduate Program “Ecologia e Evolução” [Ecology and Evolution], Universidade Federal de Goiás, Brazil.
- January 2010 – External referee, jury member, Qualificação para o Doutorado [PhD transfer report]. Guilherme de Oliveira, Title: “Macroecologia, biogeografia da conservação, mudanças climáticas, e desenvolvimento humano na região do Semi-Árido Brasileiro (Bioma Caatinga)” [Macroecology, conservation biogeography, climate change, and human development in the Semi-Arid Brazilian region (Caatinga Biome)]. Post-Graduate Program “Ecologia e Evolução” [Ecology and Evolution], Universidade Federal de Goiás, Brazil.
- November 2007 – External referee, 1<sup>st</sup> year PhD Thesis projects (12 projects). Post-Graduate Program “Ecologia e Evolução” [Ecology and Evolution], Universidade Federal de Goiás, Brazil.

## **8d. Postgraduate teaching**

### ***8d.1. Teacher/Lecturer at Advanced Postgraduate or MSc courses***

- June 2013 – Course “Measuring Biodiversity: Obtaining data, assessing its quality and generating measures of different aspects of diversity” in the “CBA Advanced Courses 2013” program. 30 hours; held in Lisbon, Portugal; Language: Portuguese/English. Institution: Centro de Biologia Ambiental, Faculdade de Ciências da Universidade de Lisboa, Portugal.
- June 2013 – Lecture on “Metapopulation ecology and theoretical models in island biogeography” within the course “Island Biogeography” of the “CBA Advanced Courses 2013” program. 3 hours; held in Lisbon, Portugal; Language: English. Institution: Centro de Biologia Ambiental, Faculdade de Ciências da Universidade de Lisboa, Portugal.
- January 2012 – Course “Measuring Biodiversity: Obtaining data, assessing its quality and generating measures of different aspects of diversity” in the “CBA Advanced Courses 2012” program. 30 hours; held in Lisbon, Portugal; Language: Portuguese/English. Institution: Centro de Biologia Ambiental, Faculdade de Ciências da Universidade de Lisboa, Portugal.
- January 2012 – Lecture on “Metapopulation ecology and theoretical models in island biogeography” within the course “Island Biogeography” of the “CBA Advanced Courses 2012” program. 3 hours; held in Lisbon, Portugal; Language: English. Institution: Centro de Biologia Ambiental, Faculdade de Ciências da Universidade de Lisboa, Portugal.

- August 2011 – Course "Medição de Biodiversidade: recopilação e qualidade de dados, e geração de variáveis" [Biodiversity Measurement: data compilation and quality, and generation of variables] in the "Programa de Pós-graduação Stricto Sensu em Botânica" [Postgraduate Program in Botany]. 32 hours; held in Rio de Janeiro, Brazil; Language: Portuguese. Institution: Escola Nacional de Botânica Tropical, Instituto de Pesquisas Jardim Botânico do Rio de Janeiro, Brazil.
- March-April 2011 – Course "Medição de Biodiversidade: recopilação e qualidade de dados, e geração de variáveis" [Biodiversity Measurement: data compilation and quality, and generation of variables] in the "Programa de Pós-Graduação em Ecologia e Evolução" [Postgraduate Program in Ecology and Evolution]. 32 hours; held in Goiânia, Brazil; Language: Portuguese. Institution: Departamento de Ecologia, Universidade Federal de Goiás, Brazil.
- March 2011 – Lecture on "Teoria Neutra da Biodiversidade, ecologia de metapopulações e modelos teóricos em biogeografia de ilhas" [The Unified Neutral Theory of Biodiversity, metapopulation ecology and theoretical models in island biogeography] within the course "Biogeografia de Ilhas" [Island Biogeography] of the "Programa de Pós-Graduação em Ecologia e Evolução" [Postgraduate Program in Ecology and Evolution]. 3 hours of lecturing, 1 hour of discussion; held in Goiânia, Brazil; Language: Portuguese. Institution: Departamento de Ecologia, Universidade Federal de Goiás, Brazil.
- April-May 2010 – Seminar "Medidas y estimas de biodiversidad. Composición, diversidad funcional y su efecto sobre el funcionamiento de los ecosistemas" [Biodiversity measurement and estimation. Composition, functional diversity and its effect on ecosystem functioning] in the "Programa de Doctorado Cambio Global y Desarrollo Sostenible (Mención de Calidad MEC: MCD2010)" [MSc in Global Change and Sustainable Development]. 20 hours; Held in Alcalá de Henares, Madrid; Language: Spanish. Institution: Departamento de Ecología, Universidad de Alcalá de Henares.
- October 2009 – Lecture on "Species distribution modelling" and discussion sessions on "Use of species distribution models as tools for conservation" in the "MSc in Conservation Science". 1 hour of lecturing, 2 hours of discussion; Held in Silwood Park, Ascot, U.K.; Language: English. Institution: Division of Biology, Imperial College London.
- March 2009 – Lectures "Latitudinal clines of biodiversity" and "Measuring global biodiversity" and 3 practical sessions on "biodiversity fieldwork and analyses" (including field, lab and computer practicals), and test question and evaluation in the "MSc in Ecology, Evolution and Conservation". 2 hours of lecturing, 12 hours of practicals, and 15 hours for evaluations; Held in Silwood Park, Ascot, U.K.; Language: English. Institution: Division of Biology, Imperial College London.
- March 2009 – Lectures on "Quality and bias on biodiversity data" and "Indices of diversity and richness estimators", a Tutorial session. 5 hours of lecturing; Held in The Natural History Museum, London, U.K.; Language: English. Institution: The Natural History Museum and Division of Biology, Imperial College London.
- April 2008 – Seminar "Medidas y estimas de biodiversidad. Composición, diversidad funcional y su efecto sobre el funcionamiento de los ecosistemas" [Biodiversity measurement and estimation. Composition, functional diversity and its effect on ecosystem functioning] in the "Programa de Doctorado Cambio Global y Desarrollo Sostenible (Mención de Calidad MEC: MCD2007-00043)" [MSc in Global Change and Sustainable Development]. 20 hours; Held in Alcalá de Henares, Madrid; Language: Spanish. Institution: Departamento de Ecología, Universidad de Alcalá de Henares.
- March 2008 – Lectures "Latitudinal clines of biodiversity" and "Measuring global biodiversity" and 3 practical sessions on "biodiversity fieldwork and analyses" (including field, lab and computer practicals) in the "MSc in Ecology, Evolution and Conservation". 2 hours of lecturing, 12 hours of practicals; Held in Silwood Park, Ascot, U.K.; Language: English. Institution: Division of Biology, Imperial College London.
- October 2006 – Modules "Data stratification" and "Predictive modelling" in the Postgraduate/MSc course "Numerical Ecology and Community Analysis". 5 hours per module; Held in Copenhagen, Denmark; Language: English. Institution: Institute of Biology, University of Copenhagen.

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- May 2006 – Module "Complementarity and Area Selection" in the Postgraduate/MSc course "Macroecology". 5 hours; Held in Copenhagen, Denmark; Language: English. Institution: Institute of Biology, University of Copenhagen.
- February 2006 – Applied Workshop "Herramientas para el análisis de la biodiversidad" [Tools for Biodiversity Analysis]. 40 hours; Held in Villa de Leyva, Colombia; Language: Spanish. Institution: Instituto Alexander Von Humboldt.
- July 2005 – Modules "Regional Conservation Assessment", "Biodiversity Data", "Species Richness Estimators", "Community Composition Variation", "Area Selection" and "Conservation Trade-Offs and Decision-Making" in the Postgraduate/MSc course "Biodiversity Estimators and Criteria for the Selection of Conservation Areas". 3 to 5 hours per module; Held in Coimbra, Portugal; Language: English. Institution: Department of Zoology, University of Coimbra.
- February 2004 – Modules "Modelos Predictivos de Distribución", "Geoestadística" and "Toma de Decisiones" [Predictive modelling of species distributions, Geostatistics and Decision Making Processes] in the course "Curso Avanzado de SIG en Ecología, Conservación de la Biodiversidad y del paisaje" [Advanced course of GIS in Ecology and Biodiversity and Landscape Conservation]. 5 hours per module; Held in Madrid, Spain; Language: Spanish. Institution: Sociedad de Amigos del Museo Nacional de Ciencias Naturales.

### ***8d.2. Teacher at postgraduate courses on Geographic Information Systems***

- January 2005 – Course "Introdução as técnicas e aplicações dos Sistemas de Informação Geográfica (SIG) em Ecologia" [Introduction to technique and application of Geographic Information Systems in Ecology]. 50 hours. Held in Angra do Heroísmo, Terceira, Azores, Portugal; Language: Portuguese. Institution: Departamento de Ciências Agrárias - CITA A, Universidade dos Açores.
- February 2004 – Modules "Análisis y Búsqueda Temática" and "Interpolación Espacial" [Analysis and Thematic Query and Spatial Interpolation] in the course "Introducción a las técnicas y aplicaciones de los Sistemas de Información Geográfica aplicados a Biología Ambiental" [Introduction to technique and application of Geographic Information Systems in Environmental Biology]. 5 hours per module. Held in Madrid, Spain; Language: Spanish. Institution: Sociedad de Amigos del Museo Nacional de Ciencias Naturales.
- January 2003 – Modules "Georreferenciación" "Interpolación Espacial" and "toma de Decisiones" [Georeferencing, Spatial Interpolation and Decision Making Processes] in the course "Sistemas de Información Geográfica aplicados a Biología Ambiental" [Geographic Information Systems applied to Environmental Biology]. 5 hours per module. Held in Madrid, Spain; Language: Spanish. Institution: Universidad Autónoma de Madrid.
- December 2001 – Modules "Georreferenciación" and "Interpolación Espacial" [Georeferencing and Spatial Interpolation] in the course "Sistemas de Información Geográfica aplicados al Medio Ambiente" [Geographic Information Systems applied to Environmental Sciences]. 5 hours per module. Held in Madrid, Spain; Language: Spanish. Institution: Sociedad de Amigos del Museo Nacional de Ciencias Naturales.
- March 2001 – Contents coordinator and teacher in the module "Análisis SIG" [GIS Analyses] in the course "Especialista en Sistemas de Información Geográfica" [Specialist in Geographic Information Systems]. 80 hours (50 teaching and 30 devoted to contents supervising). Held in San Sebastián de los Reyes (Madrid), Spain; Language: Spanish. Institution: IMAF/European Social Fund/FOREMA.
- February 2000 – Module "Sistemas de Información Geográfica y Teledetección" [Geographic Information Systems and Remote Sensing] in the course "Técnico en Paisajismo" [Technician in Landscape Engineering]. 20 hours per course/2 courses. Held in Madrid, Spain; Language: Spanish. Institution: IMAF/European Social Fund/FOREMA.

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July–September 1999 – Module "Sistemas de Información Geográfica y Teledetección" [Geographic Information Systems and Remote Sensing] in the course "Informática aplicada al Medio Ambiente" [Informatics applied to Environmental Sciences]. 50 hours per course/2 courses. Held in Madrid and Coslada (Madrid), Spain; Language: Spanish. Institution: IMAF/European Social Fund/FOREMA.



## 9. Research projects and R+D management

### 9a. Participation in research projects [23] [PI = 5]

1. Project title: Developing tools to unify range dynamics and community-level processes into a single analytical framework [CSIC P2011BR0071]

Center of application: Museo Nacional de Ciencias Naturales (CSIC) From: 2013 to: 2014

Position: Principal Investigator

Funded by: CSIC, CNPq (Brasil)

Funding: 45.000 € (21.020 €)

Participating institutions: Museo Nacional de Ciencias Naturales (CSIC), Universidade Federal de Goiás

Head researcher: Dr. Joaquín Hortal

Number of researchers: 7

2. Project title: Biodiversidade em ilhas oceânicas: um modelo unificado [Biodiversity on oceanic islands: a unified model] [PTDC/BIA-BIC/119255/2010]

Center of application: Azorean Biodiversity Group (UA)

From: 2012 to: 2015

Position: Collaborator

Funded by: Fundação para a Ciência e a Tecnologia (Portugal)

Funding: c. 190.000 €

Participating institutions: Azorean Biodiversity Group - Universidade dos Açores, Biodiversity Research Group - Oxford University Centre for the Environment, Faculty of Biology - National & Kapdistrian University of Athens

Head researcher: Dr. Paulo A. V. Borges & Kostas A. Triantis

Number of researchers: 17

3. Project title: SCARPO - Desentrañando los determinantes geograficos y evolutivos de la la diversidad de coleopteros coprofitos del Paleártico Occidental [Disentangling the geographic and evolutionary determinants of the diversity of Western Palaearctic dung beetles] [CGL2011-29317/BOS]

Center of application: Museo Nacional de Ciencias Naturales (CSIC) From: 2012 to: 2014

Position: Principal Investigator

Funded by: DGIGPNI+D+i, Ministerio de Ciencia e Innovación (Spain)

Funding: 192.390€

Participating institutions: Museo Nacional de Ciencias Naturales (CSIC), Universidad de Granada

Head researcher: Dr. Joaquín Hortal

Number of researchers: 4

4. Project title: BANDENCO – Banco de datos entomológico castellano-manchego: recopilación, análisis de la calidad de los datos y disposición para su uso en conservación [Castilla-La Mancha entomological database: compilation and analysis of data quality and availability for the use in conservation planning] [CLM-POI11-0277-5747]

Center of application: Facultad de Ciencias del Medio Ambiente, Universidad de Castilla-La Mancha  
From: 2011 to: 2014

Position: Researcher

Funded by: Junta de Comunidades de Castilla-La Mancha/FEDER (Spain) Funding: 180.000€

Participating institutions: Universidad de Castilla-La Mancha, Museo Nacional de Ciencias Naturales (CSIC), Universidad Autónoma de Madrid, Universidad de Murcia

Head researcher: Dr. Jose Luis Yela García

Number of researchers: 13

5. Project title: HarmBio – Harmonizing Global Biodiversity Modelling

Center of application: Museo Nacional de Ciencias Naturales (CSIC)

From: 2011 to: 2014

Position: Participant

Funded by: EC COST (European Cooperation in the field of Scientific and Technical Research)

Funding: 500.000€

Participating institutions: 12 institutions from 11 European countries, Australia, Canada and USA

Head researcher: Dr. Miguel B. Araújo

Number of researchers: 50+

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6. Project title: GENPAC – Genética geográfica e planejamento regional para conservação de recursos naturais no Cerrado [Geographic genetics and regional planning for the conservation of the Cerrado natural resources] [MCT/CNPq/FNDCT/FAPs/MEC/CAPES/PRO-CENTRO-OESTE 564717/2010-0]

Center of application: Universidade Federal de Goiás

From: 2011 to: 2014

Position: Researcher

Funded by: CNPq - Conselho Nacional de Desenvolvimento Científico e Tecnológico (Brazil)

Funding: 4.994.123,94 R\$

Participating institutions: Universidade Federal de Goiás, Universidade Nacional de Brasília, Universidade Estadual de Goiás, Universidade Federal de Mato Grosso do Sul, Instituto Federal de Mato Grosso do Sul, Universidade do Estado de Mato Grosso, Embrapa Cenargen, Universidade Federal de Mato Grosso, Pontifícia Universidade Católica de Goiás, Embrapa Gado de Corte, Museo Nacional de Ciencias Naturales (CSIC), Instituto de Ciencias del Mar (CSIC), Universidad de Alcalá, Universidade de Evora Portugal, Center for Macroecology, Evolution and Climate – University of Copenhagen, University of Texas, Brigham Young University, Flinders University, University of Connecticut, Cape Research Centre (South Africa), Conservation International

Head researcher: Dr. Jose Alexandre F. Diniz-Filho

Number of researchers: 80+

7. Project title: LTER Montado – Investigação socio-ecológica de longo prazo numa paisagem cultural Mediterrânica [Long-term socio-ecological research and monitoring in a Mediterranean cultural landscape] [LTER/BIA-BEC/0048/2009]

Center of application: Centro de Biologia Ambiental (CBA/FC/UL)

From: 2011 to: 2014

Position: Researcher

Funded by: Fundação para a Ciência e a Tecnologia (Portugal)

Funding: 190,000 €

Participating institutions: Centro de Biologia Ambiental - Universidade de Lisboa

Head researcher: Dr. Margarida Santos Reis

Number of researchers: 20+

8. Project title: Predicting extinctions on islands: a multi-scale assessment [PTDC/BIA-BEC/100182/2008]

Center of application: Azorean Biodiversity Group (UA)

From: 2010 to: 2013

Position: Collaborator

Funded by: Fundação para a Ciência e a Tecnologia (Portugal)

Funding: 194.907 €

Participating institutions: Azorean Biodiversity Group - Universidade dos Açores, Biodiversity Research Group - Oxford University Centre for the Environment, Faculty of Biology - National & Kapdistrían University of Athens

Head researcher: Dr. Paulo A. V. Borges

Number of researchers: 8

9. Project title: Conflito entre actividades humanas e a conservação de endemismos insulares numa área de elevada biodiversidade à escala Mundial [Conflict between human activities and the conservation of island endemics in a Global Biodiversity Hotspot] [PTDC/BIA-BEC/099138/2008]

Center of application: Centro de Biologia Ambiental (CBA/FC/UL)

From: 2010 to: 2013

Position: Researcher

Funded by: Fundação para a Ciência e a Tecnologia (Portugal)

Funding: 198,309 €

Participating institutions: Centro de Biologia Ambiental - Universidade de Lisboa, Instituto do Mar - Universidade de Coimbra, Parque Natural da Madeira, Universidade dos Açores

Head researcher: Dr. Artur R. M. Serrano

Number of researchers: 16

10. Project title: Developing Putative Networks [PS024\_2010\_WSPB]

Center of application: NERC Centre for Population Biology (2010)

From: 2010 to: 2010

Position: Principal Investigator and Organizer

Funded by: UK NERC

Funding: 8,500 £

Participating institutions: NERC Centre for Population Biology – Imperial College London, Muséum national d'histoire naturelle, University of Exeter, Biometris – Wageningen University, Zoological Society of London, University of Sheffield, CENIEH - Centro Nacional de Investigaciones en Evolución Humana

Head researcher: Dr. Joaquín Hortal

Number of researchers: 8

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11. Project title: Macroecology – Changes in Community Structure and Diversity [PS0594\_LBPB]  
Center of application: NERC Centre for Population Biology From: 2007 to: 2010  
Position: Head/postdoctoral research associate  
Funded by: UK NERC Funding: 18,000 £  
Participating institutions: NERC Centre for Population Biology, Imperial College London.  
Head researcher: Dr. Joaquín Hortal Number of researchers: 1
12. Project title: Current and past determinants of Western Palearctic biodiversity [PS012\_2008\_WSPB]  
Center of application: NERC Centre for Population Biology From: 2007 to: 2010  
Position: Principal Investigator and Organizer  
Funded by: UK NERC Funding: 15,000 £  
Participating institutions: NERC Centre for Population Biology – Imperial College London, Museo Nacional de Ciencias Naturales (CSIC), Universidade Federal de Goiás, CEH Monks Wood, Staffordshire University, University of California – Irvine, Uppsala University, Center for Macroecology, Evolution and Climate – University of Copenhagen, Università degli Studi del Molise, Universidad de Alcalá de Henares, Universität Trier, University of Aarhus, School of Geography OUCE –University of Oxford, CENIEH - Centro Nacional de Investigaciones en Evolución Humana  
Head researcher: Dr. Joaquín Hortal Number of researchers: 20
13. Project title: IBERIA GAP - Evaluación de las deficiencias de las Áreas Protegidas y de las necesidades para la Conservación de la Biodiversidad en la Península Ibérica [Evaluating gaps in protected areas and needs for biodiversity conservation in the Iberian Peninsula] [CGL2006-10196/BOS]  
Center of application: Museo Nacional de Ciencias Naturales (CSIC) From: 2007 to: 2010  
Position: Coordinator/postdoctoral researcher  
Funded by: DGICYT, Ministerio de Educación y Ciencia (Spain)  
Participating institutions: Museo Nacional de Ciencias Naturales (CSIC), Universidad Autónoma de Madrid, Universidad Complutense de Madrid, Universidad de Alicante, Universidad de Castilla-La Mancha.  
Head researcher: Dr. Miguel B. Araújo Number of researchers: 8
14. Project title: Elaboración de modelos predictivos de distribución con los datos biológicos almacenados en el Banco de Biodiversidad de Canarias y evaluación de la capacidad de los espacios naturales protegidos de la isla de Tenerife a la hora de representar la diversidad biológica [Predictive modelling of the biological data stored in the Canarian Biodiversity Database, and evaluation of the effectiveness of the protected area network of Tenerife island to represent its biological diversity] [CGL2004-04309]  
Position: Postdoctoral researcher  
Center of application: Museo Nacional de Ciencias Naturales From: 2005 to: 2007  
Funded by: Ministerio de Educación y Ciencia (Spain)  
Participating institutions: Museo Nacional de Ciencias Naturales (CSIC), Gestión Planeamiento Territorial y Medioambiental S.A.  
Head researcher: Dr. Jorge M. Lobo Number of researchers: 4
15. Project title: Yámana - Diseño de una red de reservas para la protección de la biodiversidad en América del Sur Austral utilizando modelos predictivos de distribución con taxones hiperdiversos [Design of a reserve network for biodiversity protection at Austral South America using distribution predictive models with hyperdiverse taxa]  
Position: Postdoctoral researcher  
Center of application: Museo Nacional de Ciencias Naturales From: 2004 to: 2007  
Funded by: Fundación BBVA Funding: 190,000 €  
Participating institutions: Museo Nacional de Ciencias Naturales (CSIC), Instituto Argentino de Investigaciones de las Zonas Áridas (CONICET), University of Nebraska State Museum.  
Head researcher: Dr. Jorge M. Lobo Number of researchers: 12

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16. Project title: ATLÁNTICO - Desarrollo de un Banco de Datos de Biodiversidad Macaronésico [ATLANTICO – Development of a Database for Macaronesian Biodiversity]

Position: Invited postdoctoral researcher

Center of application: Universidade dos Açores

From: 2004 to: 2006

Funded by: European Union – Programa Interreg III

Participating institutions: Univ dos Açores, Direcção Regional do Ambiente dos Açores, Dirección General de Medio Ambiente de Canarias.

Head researcher: Dr. Paulo A. V. Borges

Number of researchers: 5

17. Project title: BALA - Biodiversidade dos Artrópodes da Laurisilva dos Açores [BALA – Arthropod Biodiversity of the Azorean Laurisilva Forests]

Position: Invited postdoctoral researcher

Center of application: Universidade dos Açores (2004)

From: 2002 to: 2004

Funded by: CITA-UA

Participating institutions: Univ. dos Açores, Faculdade de Ciências da Universidade de Lisboa, Direcção Regional do Ambiente dos Açores

Head researcher: Dr. Paulo A. V. Borges

Number of researchers: 24

18. Project title: European Network for Biodiversity Information

Position: ENBI-Forums Project Manager

Center of application: GBIF-España (Real Jardín Botánico) (2003-2004)

From: 2003 to: 2005

Funded by: European Union

Participating institutions: 66 entities from 24 countries, including GBIF España (Museo Nacional de Ciencias Naturales – Real Jardín Botánico)

Head researcher: Wouter Los (Amsterdam University)

19. Project title: Factores determinantes de la biodiversidad en la Comunidad de Madrid y predicción de su variación geográfica [Determinants of Biodiversity in the Comunidad de Madrid, and Prediction of their Geographic Variation]

Position: Predoctoral researcher

Center of application: Museo Nacional de Ciencias Naturales

From: 2003 to: 2004

Funded by: Consejería Educación. Comunidad de Madrid

Participating institutions: Museo Nacional de Ciencias Naturales

Head researcher: Dr. Jorge Miguel Lobo

Number of researchers: 3

20. Project title: Faunística Predictiva: Análisis comparado de la efectividad de distintas metodologías y su aplicación para la selección de reservas naturales [Predictive Faunistics: Comparative Analysis of the Effectiveness of Different Methodologies, and their Application for the Selection of Natural Reserves]

Position: Predoctoral researcher

Center of application: Museo Nacional de Ciencias Naturales

From: 2002 to: 2005

Funded by: DGICYT

Participating institutions: Museo Nacional de Ciencias Naturales, centre National de la Recherche scientifique, Universidad de Alicante

Head researcher: Jorge M. Lobo

Number of researchers: 3

21. Project title: Distribución de la Diversidad Filogenética en un Grupo de insectos en la España Central [Phylogenetic Diversity Distribution in an Insect Group at Central Spain]

Position: Predoctoral collaborator

Center of application: Museo Nacional de Ciencias Naturales

From: 2002 to: 2003

Funded by: Comunidad Autónoma de Madrid

Participating institutions: Museo Nacional de Ciencias Naturales

Head researcher: Dr. Rafael Zardoya

Number of researchers: 3

22. Project title: Caracterización genética y delimitación espacial de la diversidad en insectos de la Comunidad de Madrid [Genetic Characterization and Spatial Delimitation of Insect Diversity at Comunidad de Madrid]

Position: Predoctoral collaborator

Center of application: Museo Nacional de Ciencias Naturales From: 2000 to: 2001

Funded by: Comunidad Autónoma de Madrid

Participating institutions: Museo Nacional de Ciencias Naturales

Head researcher: Dr. Rafael Zardoya Number of researchers: 3

23. Project title: Patrones de Diversidad Geográfica en Insectos [Patterns of Geographic Diversity in Insects]

Position: Predoctoral researcher

Center of application: Museo Nacional de Ciencias Naturales From: 1998 to: 2001

Funded by: Spanish DGICYT (Project PB97-1149)

Participating institutions: Museo Nacional de Ciencias Naturales, Universidad Autónoma de Madrid

Head researcher: Fermín Martín-Piera Number of researchers: 5

### **9b. Participation in other I+D contracts with companies or governmental agencies**

Project title: Estudio de Impacto Ambiental del desdoblamiento de la carretera M-501 [Environmental Impact Assessment of and additional lane for M-501 road]

Position: Field collaborator

Center of application: Museo Nacional de Ciencias Naturales From: 2000 to: 2000

Funded by: Comunidad Autónoma de Madrid

Participating institutions: Museo Nacional de Ciencias Naturales

Head researcher: Dr. Ignacio de la Riva Number of researchers: 20+

### **9c. Institutional positions**

Post: Secretary

Committee/organism: Claustro Científico [Faculty assembly]

Centre/Institution: Museo Nacional de Ciencias Naturales (CSIC)

Period: May 2012–Present

Post: Member

Committee/organism: Advertising and Outreach

Centre/Institution: International Biogeography Society

Period: January 2009–Present

### **9d. Project management**

Task: ENBI Forums Project Manager

Project: European Network for Biodiversity Information

Place/Employer: Real Jardín Botánico (CSIC)

Period: October 2003–February 2004

Task: Supervisor EPO [External Partner Supervisor], representative of ENEA Social, S.L..L.

Project: Gestión de colecciones de Historia Natural [Natural History Collections Management]

Place/Employer: Museo Nacional de Ciencias Naturales (CSIC)

Period: 2002-2004

## **9e. Organization of scientific meetings/working groups**

Title: Developing Putative Networks

Role: Organizer and coordinator

Number of participants: 9

Type of meeting: Workshop

Framework: NERC Centre for Population Biology Workshop Series

Place: Silwood Park, Ascot, UK

Date(s): April 2010

Title: Current and past determinants of Western Palearctic biodiversity

Role: Organizer and coordinator

Number of participants: 25

Type of meeting: Working group/Series of workshops

Framework: NERC Centre for Population Biology Workshop Series

Place: Silwood Park, Ascot, UK

Date(s): 2007-2010; 1<sup>st</sup> Workshop March 2008; 2<sup>nd</sup> Workshop June-July 2009

Title: Sampling and modelling the spatial responses of insects across spatial scales

Role: Co-organizer and Moderator

Number of participants: 11

Type of meeting: Symposium

Framework: XXIII International Congress for Entomology. Session 6 - Ecology

Place: Durban, South Africa

Date(s): July 2008

## **9f. Participation in workshops/working groups**

Title: HarmBio COST Action Working Group 1

Role: Participant

Number of participants: 15

Type of meeting: Working group

Framework: Identifying the best indicators for monitoring biodiversity changes at continental scales

Places: Several meetings at Rome, Dublin and other European cities

Date(s): November 2012-December 2015

Title: Continuation of Brazil-European Union Dialogue on Payment for Ecosystem Services

Role: Expert (specialist in PES funding related to biodiversity and conservation)

Number of participants: 4 experts, Brazilian Ministry of the Environment, EU DG Environment

Type of meeting: Working group with specialized workshops and online conferences

Framework: Dialogues between Brazil and the EU to support the implementation of payment and valorization of environmental services in Brazil

Place: Several meetings, Brasilia, Brazil

Date(s): October 2012-March 2013

Title: Visualising the future of our planet – Can we do better than heat maps?

Role: Participant, invited speaker

Number of participants: 26

Type of meeting: Workshop

Framework: Designing and implementing visualizations to communicate global change impacts and the uncertainty associated to our current estimates.

Place: Microsoft Research Ltd., Cambridge, UK

Date(s): 16-17 April 2012

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Title: Modelos preditivos de distribuição de espécies: Aplicações, desafios e perspectivas [Predictive species distribution models: Applications, challenges and perspectives]

Role: Invited advisor

Number of participants: 6 advisors and 40+ attendees

Type of meeting: Workshop

Framework: Present the main problems and requirements for the use of species distribution models, including evaluation and discussion of related research projects

Place: Instituto de Ciências Biológicas, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil

Date(s): 29-30 August 2011

Title: Measuring changes in species' distributions

Role: Participant, invited speaker

Number of participants: 20

Type of meeting: Workshop

Framework: Use of Biological Records Centre (UK) databases to determine global change effects over Great Britain's biodiversity

Place: CEH Wallingford, Reino Unido

Date(s): 3rd February 2010

Title: Species vulnerability traits

Role: Participant, invited expert

Number of participants: 31

Type of meeting: Workshop

Framework: Update of criteria for IUCN Red List of Threatened Species

Place: Silwood Park, Ascot, UK

Date(s): October 2007

Title: Complementando el Banco de Biodiversidad de Canarias con modelos predictivos de distribución de la biodiversidad [Complementing the Canarian Biodiversity Database with predictive models on biodiversity distribution]

Role: Participant, invited expert

Number of participants: 8

Type of meeting: Workshop

Framework: Using assemblage descriptors and models on the geographic distribution of species and biodiversity to improve conservation strategies in the Canary Islands based on the ATLANTIS database (Project ATLANTIS-Canarias, INTERREG IIIB)

Place: GESPLAN, Centro de Planificación Ambiental, La Laguna, Tenerife, Canary Islands, Spain

Date(s): September 2003

### **9g. Referee for research project grants [37]**

Institution: Ministerio de Agricultura, Alimentación y Medio Ambiente, Spain

Call: MAAMA Ayudas a la Investigación relacionadas con la Red de Parques Nacionales [Grants for Research on the National Parks Network]

Year: 2013

Number of projects evaluated: 2

Institution: Deutsche Forschungsgemeinschaft (German Research Foundation), Germany

Call: DFG Research Grants Programme

Year: 2013

Number of projects evaluated: 1

Institution: Natural Environment Research Council (NERC), UK

Call: BESS Research Grants

Year: 2013

Number of projects evaluated: 1

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Institution: Fondo para la Investigación Científica y Tecnológica (FONCyT), Agencia Nacional de Promoción Científica y Técnica, Argentina

Call: Proyectos de Investigación Científica y Tecnológica 2012 [Scientific and Technological Research Projects 2012]

Year: 2013 Number of projects evaluated: 1

Institution: Agencia Andaluza del Conocimiento, Junta de Andalucía, Spain

Call: Proyectos de Excelencia 2012 [Excellence Projects 2012]

Year: 2013 Number of projects evaluated: 1

Institution: Fundação para a Ciência e a Tecnologia (FCT), Portugal

Call: SR&TD Projects

Year: 2012 Number of projects evaluated: 2

Institution: Ministerio de Medio Ambiente, Rural y Marino, Spain

Call: MMARM Ayudas a la Investigación relacionadas con la Red de Parques Nacionales [Grants for Research on the National Parks Network]

Year: 2012 Number of projects evaluated: 1

Institution: Ministerio de Economía y Competitividad, Spain

Call: Programa Nacional de Proyectos de Investigación Fundamental (Plan Nnal. I+D B 2012) [National Program for Basic Research Projects 2012]

Year: 2012 Number of projects evaluated: 5

Institution: Rufford Foundation, UK

Call: Rufford Small Grants for Nature Conservation

Year: 2011 Number of projects evaluated: 1

Institution: NWO – Netherlands Organisation for Scientific Research, The Netherlands

Call: Earth and Life Sciences Open Programme 2011 ALW

Year: 2011 Number of projects evaluated: 1

Institution: CONICYT – Comisión Nacional de Investigación Científica Y Tecnológica, Chile

Call: Concurso FONDECYT Regular 2012 (Fondo Nacional de Desarrollo Científico y Tecnológico)

Year: 2011 Number of projects evaluated: 1

Institution: CONABIO – Comisión Nacional para el Conocimiento y Uso de la Biodiversidad, Mexico

Call: Proyectos para modelar la distribución geográfica de especies presentes en México [Grants for modelling the geographic distribution of species occurring in Mexico]

Year: 2011 Number of projects evaluated: 1

Institution: Ministerio de Medio Ambiente, Rural y Marino, España

Call: MMARM Ayudas a la Investigación relacionadas con la Red de Parques Nacionales [Grants for Research on the National Parks Network]

Year: 2011 Number of projects evaluated: 2

Institution: Natural Environment Research Council (NERC), UK

Call: Standard Grants

Year: 2011 Number of projects evaluated: 1

Institution: Ministerio de Ciencia e Innovación, Spain

Call: Programa Nacional de Proyectos de Investigación Fundamental (Plan Nnal. I+D B 2011) [National Program for Basic Research Projects 2011]

Year: 2011 Number of projects evaluated: 2

Institution: Fondation pour la Recherche sur la Biodiversité, Francia

Call: FRB Flagship Programme "Modeling and Scenarios of Biodiversity"

Year: 2010 Number of projects evaluated: 1



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Institution: BBSRC – Biotechnology and Biological Sciences Research Council, UK  
Call: Standard – New Investigator, Committee B: Plants, Microbes, Food and Sustainability  
Year: 2010 Number of projects evaluated: 1

Institution: National Science Foundation, USA  
Call: NSF call for research proposals PD 09-1127, DEB - EVOLUTIONARY PROCESSES CLUSTER  
Year: 2010 Number of projects evaluated: 1

Institution: NWO – Netherlands Organisation for Scientific Research, The Netherlands  
Call: Earth and Life Sciences Open Programme 2010 ALW  
Year: 2010 Number of projects evaluated: 1

Institution: Ministerio de Ciencia e Innovación, Spain  
Call: Programa Nacional de Proyectos de Investigación Fundamental (Plan Nnal. I+D B 2010) [National Program for Basic Research Projects 2010]  
Year: 2010 Number of projects evaluated: 2

Institution: Consejería de Educación y Ciencia de Castilla-La Mancha, Spain  
Call: Proyectos de Investigación Científica 2010 (POII10) [Scientific Research Projects 2010]  
Year: 2010 Number of projects evaluated: 1

Institution: National Science Foundation, USA  
Call: NSF call for research proposals PD 09-1127, DEB - EVOLUTIONARY ECOLOGY  
Year: 2009 Number of projects evaluated: 1

Institution: Ministerio de Medio Ambiente y Medio Rural y Marino, Parques Nacionales, España  
Call: Ayudas a la investigación en materias relacionadas con la Red de Parques Nacionales 2009 (MMA PN 09)  
Year: 2009 Number of projects evaluated: 1

Institution: Ministerio de Ciencia e Innovación, España  
Call: Programa Nacional de Proyectos de Investigación Fundamental (Plan Nnal. I+D B 09)  
Year: 2009 Number of projects evaluated: 2

Institution: Comisión Sectorial de Investigación Científica, Universidad de la República, Uruguay  
Call: Solicitud de Fondos para Financiamiento, Proyectos de I+D 2008  
Year: 2008 Number of projects evaluated: 1

Institution: Fondo para la Investigación Científica y Tecnológica, Ministerio de Educación, Ciencia y Tecnología, Argentina  
Call: Proyectos de Investigación Científica y Tecnológica 2007  
Year: 2008 Number of projects evaluated: 1

Institution: Fundación BBVA, España  
Call: IV convocatoria pública de Ayudas a la Investigación en Ecología y Biología de la Conservación  
Year: 2007 Number of projects evaluated: 1

### **9h. Referee for positions/promotions/ [7]**

Institution: Fundação para a Ciência e a Tecnologia (FCT), Portugal  
Call: Investigador FCT 2013 [FCT Researcher 2013; 5-yr Research Fellow contracts]  
Year: 2013 Number of proposals evaluated: 6

Institution: University of Pretoria, Faculty of Natural and Agricultural Sciences, South Africa  
Call/Evaluation: Internal Promotion to Associate Professor  
Year: 2011 Number of candidates/calls evaluated: 1

**9i. Referee for personal grant proposals/applications [11]**

Institution: Consejería de Educación y Ciencia del Principado de Asturias – ANEP, Spain  
Call: Programa “Clarín” de ayudas postdoctorales del Principado de Asturias 2011-2012, modalidad B (reincorporación de investigadores postdoctorales experimentados) [Principado de Asturias “Clarín” program for postdoctoral grants 2011-2012, type B (return of experienced postdoctoral researchers)]  
Year: 2010  
Number of proposals evaluated: 1

Institution: International Biogeography Society  
Call: Ayudas de viaje para el 2009 IBS Meeting [Travel Awards to attend the 2009 IBS Meeting]  
Year: 2008  
Number of proposals evaluated: 10

## 10. Editorial work

### 10a. Editorial board

– *Frontiers of Biogeography*, the scientific journal of the International Biogeography Society (former *IBS Newsletter*) (<http://www.biogeography.org/html/fb.html>)

Role: January 2009 – Present. Editor-in-Chief

Edited papers: 31 (2009 [7], 2010 [11], 2011 [12], 2012 [1])

– *Ecography* (<http://www.wiley.com/bw/journal.asp?ref=0906-7590>)

Roles: December 2008 – October 2009. Co-editor of the special issue "Sampling and modelling arthropod distributions across spatial scales"

April 2009 – Present. Subject editor.

Edited papers: 67 (2009 [10], 2010 [12], 2011 [13], 2012 [25], 2013 [7])

– *International Biogeography Society Newsletter* (currently *Frontiers of Biogeography*, see above) (<http://www.biogeography.org/html/newsletter.html>)

Role: March 2007 – January 2009. Editor and managing editor

### 10b. Referee for SCI Indexed Journals [166]

2013 [11] – *Basic and Applied Ecology*, *Ecological Applications*, *Global Ecology and Biogeography*, *Hydrobiologia*, *Journal of Biogeography* (4), *Journal of Vegetation Science*, *Natureza & Conservação – Brazilian Journal of Nature Conservation*, *PLoS ONE*

2012 [18] – *Acta Oecologica*, *American Naturalist*, *Biological Conservation*, *Diversity and Distributions*, *Ecological Modelling*, *Ecology*, *Global Ecology and Biogeography* (2), *Insect Conservation and Diversity*, *Journal of Biogeography* (3), *Journal of Vegetation Science*, *Methods in Ecology and Evolution*, *PLoS ONE* (2), *Proceedings of the Royal Society of London B*, *Science*

2011 [24] – *Acta Theriologica*, *American Naturalist*, *Basic and Applied Ecology*, *Biodiversity and Conservation*, *Diversity and Distributions* (2), *Ecography*, *Ecological Research*, *Ecology Letters*, *Écoscience*, *Global Ecology and Biogeography*, *Hydrobiologia*, *Insect Conservation and Diversity* (2), *Journal of Animal Ecology*, *Journal of Applied Ecology*, *Journal of Biogeography* (3), *Journal of Vegetation Science*, *Landscape Ecology*, *Natureza & Conservação – Brazilian Journal of Nature Conservation*, *PLoS ONE*, *Proceedings of the Royal Society of London B*

2010 [24] – *Acta Oecologica*, *American Naturalist*, *Austral Ecology*, *Basic and Applied Ecology*, *Biological Conservation*, *Diversity and Distributions*, *Ecography* (2), *Ecological Entomology*, *Ecology Letters*, *Écoscience*, *Global Ecology and Biogeography* (2), *Hydrobiologia*, *Insect Conservation and Diversity* (3), *Journal of Biogeography* (4), *Journal of Insect Conservation*, *Oecologia*, *Philosophical Transactions of the Royal Society B*

2009 [27] – *Acta Oecologica*, *American Naturalist*, *Animal Conservation*, *Basic and Applied Ecology*, *Biodiversity and Conservation*, *Biological Conservation* (2), *Conservation Biology*, *Diversity and Distributions* (2), *Ecography*, *European Journal of Wildlife Research*, *Evolutionary Ecology*, *Global Ecology and Biogeography* (3), *Insect Conservation and Diversity* (2), *Journal of Animal Ecology*, *Journal of Applied Ecology*, *Journal of Arid Environments*, *Journal of Biogeography*, *Journal for Nature Conservation*, *Methods in Ecology and Evolution*, *Oikos*, *Revista Mexicana de Biodiversidad*, *Systematics and Biodiversity*

- 2008 [33] – *Animal Conservation, Annales Zoologici Fennici, Biological Conservation (5), Biology Letters (2), Diversity and Distributions (2), Ecography (3), Ecological Applications, Environmental Entomology, Global Ecology and Biogeography (3), Hydrobiologia, Insect Conservation and Diversity (3), Journal of Animal Ecology (2), Journal of Biogeography (6), Journal of Ecology, Turkish Journal of Zoology*
- 2007 [15] – *Biodiversity and Conservation, Biological Conservation (3), Canadian Journal of Zoology, Diversity and Distributions (3), Ecography, Global Ecology and Biogeography, Journal of Applied Ecology (2), Journal of Ornithology, Zoological Studies (2)*
- 2006 [11] – *Biological Conservation, Canadian Journal of Zoology, Conservation Biology (2), Diversity and Distributions (2), Ecography (2), Entomologica Fennica, Journal of Animal Ecology, Journal of Biogeography*
- 2005 [3] – *Ardeola, Biodiversity and Conservation, Journal of Agricultural, Biological and Environmental Statistics*

#### **10c. Referee for Book chapters/Journals not indexed at the SCI [12]**

- 2012 [2] – *Ecosistemas, Diversity*
- 2010 [1] – *Limnetica*
- 2009 [2] – *Animal Biodiversity and Conservation, Diversity*
- 2008 [1] – *Cat News (IUCN)*
- 2006 [1] – *Animal Biodiversity and Conservation*
- 2005 [2] – *Migration in Organisms-Climate, Geography, Ecology (Ashraf M. T. Elewa, Ed.) (2)*
- 2003 [2] – *Animal Biodiversity and Conservation, Graellsia*
- 2002 [1] – *Proyecto de Red Iberoamericana de Biogeografía y Entomología Sistemática. PRIBES 2002 (Costa, C., Vanin, S. A., Lobo, J. M. and Melic, A., Eds.)*

#### **10d. Referee for Books [1]**

- Borges, P.A.V., Cunha, R., Gabriel, R., Martins, A.F., Silva, L., & Vieira, V. (2005) A list of the terrestrial fauna (Mollusca and Arthropoda) and flora (Bryophyta, Pteridophyta and Spermatophyta) from the Azores Direcção Regional de Ambiente and Universidade dos Açores, Horta, Angra do Heroísmo and Ponta Delgada.