

# CURRICULUM VITAE

Paulo A. V. Borges



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## **Paulo Alexandre Vieira Borges**

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### **Summary**

Paulo A. V. Borges has a Ph.D. diploma in Insect Ecology from the Imperial College of Science, Technology and Medicine – University of London (1997). Since 1988, he has been involved in biodiversity research, using arthropods as model organisms and the Macaronesian islands, particularly the Azores, as model systems. His current research is driven by three overarching objectives: i) collect long-term ecological data to investigate the processes affecting patterns of species diversity, abundance and distribution at different spatial scales; ii) use Macaronesia as a model system to investigate ecological and evolutionary mechanisms responsible for shaping island biotas; iii) identify pathways that impact oceanic indigenous assemblages under global change for conservation purposes.

He has been an Assistant Professor since 28/01/1998, for a period of five years. He passed to Assistant Professor on 28/01/2003. Made the Aggregation on 15/02/2008. Associate Professor with Aggregation since 1.08.2020

**Main domain of research:** Macroecology; Community Ecology; Conservation; Bioespeleology, Termite Control.

**Leadership:** He is currently leading the Azorean Biodiversity Group (cE3c) within the University of the Azores (<http://gba.uac.pt/>).

**Publications:** Paulo A.V. Borges has published extensively using Azorean Islands as a model for understanding arthropod community structure in island ecosystems, with 231 published or accepted papers in ISI recognized journals (**SCOPUS h-Index 39**). From those,

50% are from the First Quartile in the areas of Ecology, Entomology and Multidisciplinary Sciences. He has also published 21 books as author or editor (including the complete lists of the terrestrial biodiversity of Azores and Madeira archipelagos), 66 Book Chapters and about 60 published or accepted papers in Refereed Journals without Impact Factor.



**Proportion of ISI articles in the several thematic fields (Source: Web of Science; January 2022)**

**Scientific projects:** Over the last eight years he coordinated/participated in 40 projects, funded by different agencies (12 international; 12 national (FCT) and 16 regional). For example, in the last years he coordinated five FCT projects obtaining about 900 000 Euros in funding and from 2012 to 2015, he was the Azorean coordinator of the EUROPE NETBIOME – ISLANDBIODIV Project (Understanding biodiversity dynamics in tropical and subtropical islands as an aid to science based conservation action (Azores, Canary Islands, Reunion). In Azores he led 12 out of the 16 projects many of them related with termite ecology, monitoring and eradication.

**Outreach projects:** He is the leader of the Azorean Biodiversity Portal (<http://azoresbioportal.uac.pt/pt/>) a key E- Infrastructure (associated with LIFE-Watch) for promoting Azores Biodiversity to scientists, students, teachers, general public and also tourists. Over the years, many outreach activities and projects have been promoted by Paulo A. V. Borges, including three urban interventions such as “Azoreans for millions of years”, three RAVE – Rapid Assessment Visual Expedition (e.g. <http://raveterceira.wixsite.com/rave2014>), one Facebook contest (Pick a name!; <https://pt-pt.facebook.com/Chama.lhe.Nomes>) and the

development of sites like ISLANDLAB (<http://islandlab.uac.pt/>) and SOSTERMITAS DOS AÇORES (<http://sostermitas.angra.uac.pt/>).

**Collaborations:** He has long lasting collaborations with 12 Associate Research Fellows from seven countries (Ana Santos, Artur Serrano, Brent Emerson, François Rigal, Kostas Triantis, Luis Borda-deÁgua, Margarita Florencio, Pedro Cardoso, Pedro Oromí, Robert Whittaker, Simone Fattorini, Thomas Matthews). He is editor of the following Journals: Community Ecology; Biodiversity Data Journal; Frontiers in Ecology and Evolution, Insects; Arquipelago -Life and Marine Sciences, Açoreana, Vieraeta.

**Supervisions:** Overall, he has supervised 24 Post-Doc projects, 14 Ph.D. students and 32 MSc Students, and is currently supervising four Post-Docs and seven Ph.D. Students.

#### **Personal Webpages:**

Azorean Biodiversity Group: <http://gba.uac.pt/member/paulo-a-v-borges>

Center of Ecology Evolution and Environmental Changes (cE3c –IBBC):

<http://ce3c.ciencias.ulisboa.pt/member/paulo-a-v-borges>

Research ID: <http://www.researcherid.com/rid/B-2780-2008>

SCOPUS AUTHOR: <http://www.scopus.com/authid/detail.url?authorId=7003533390>

ORCID AUTHOR: <http://orcid.org/0000-0002-8448-7623>

GOOGLE SCHOLAR:

<https://scholar.google.pt/citations?user=zq3MIR4AAAAJ&hl=en&citsig=AMstHGRjJKs886YeOpUYUUaGltPtXX1wEw>

CV De Gois: <http://www.degois.pt/visualizador/curriculum.jsp?key=0559412372771531>

Cienciavita: <https://www.cienciavita.pt/en/FA1A-C9CB-9C29>

Research Gate: <https://www.researchgate.net/profile/Paulo-Borges-19>

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#### **Websites Coordinator:**

*Azorean Biodiversity Group Page* <http://gba.uac.pt/>

*Azorean Biodiversity Portal* (<http://www.azoresbioportal.angra.uac.pt/>) and <http://azoresbioportal.uac.pt/pt/>

Base de dados da Biodiversidade dos Açores

(<http://www.atlantis.angra.uac.pt/atlantis/common/index.jsf>)

*Island Lab* (<http://islandlab.uac.pt/>)

*Azorean Spiders*: (<http://www.jorgenlissner.dk/azoreanspiders.aspx>)

Térmites from the Azores (<http://sostermitas.angra.uac.pt>)

IBIG - <http://www.ibigbiology.com/>

IUCN SSC Mid-Atlantic Islands Invertebrate Specialist Group- <http://www.maiisg.com/>

**REVIEWER FOR 101 Journals as follows:**

**Macroecological /Biogeographical Journals (J=7/ Rev.= 75):** Diversity and Distributions (4), Ecography (14), Frontiers in Biogeography (2), Global Ecology and Biogeography (17), Journal of Biogeography (32), Global Change Biology (6), Methods in Ecology and Evolution (2).

**Ecological Journals (J=21/ Rev. = 82):** Acta Oecologica-International Journal of Ecology (4), Basic and Applied Ecology (2), Community Ecology (16), Ecologia Austral (1), Ecological Indicators (4), Ecological Informatics (2), Ecological Modelling (1), Ecosystem Health and Sustainability (1), Forests (1); Forest Ecology and Management (2), ISRN Ecology (9), Journal of Animal Ecology (1), Journal of Applied Ecology (3), Journal of Arid Land (2), Oikos (1), Land -MDPI (2), Urban Forestry & Urban Greening (1), Web Ecology (4); Diversity (8); Frontiers in Ecology and Evolution (16), Microbial Ecology (1), Ethology Ecology & Evolution (1).

**Conservation Journals (J =10/ Rev. = 48):** Biodiversity and Conservation (6), Biological Conservation (3), Biological Invasions (3), Conservation Biology (7), Environmental Conservation (3), Insect Conservation and Diversity (17), Journal of Environmental Management (4), Journal of Insect Conservation (1), Land Degradation & Development (3), Science of the Total Environment (2).

**Entomological/Taxonomical Journals (J = 26/ Rev. = 51):** Agriculture and Natural Resources (1), Biodiversity Data Journal (5), Biological Control (1), BioControl (1), Boletín de la Asociación española de Entomología (2), Boletín de la Real Sociedad Española de Historia Natural (1), Crop Protection (1), Entomologica Fennica (1), Entomological News (1), Environmental Entomology (1), International Journal of Entomology and Nematology (1), International Journal of Tropical Insect Science (2), Insects (12), Journal of the Entomological Research Society (2), Journal of Insect Science (2); Journal of Arachnology (1), Journal of Economic Entomology (1), Miscellanea Zoológica (1), Phytoparasitica (2), Species Diversity (1), Systematics and Biodiversity (2), Systematic Biology (2), Zootaxa (3), Zoological Studies (1), International Journal of Zoology (2), SHILAP Revista de Lepidopterología (1).

**Multidisciplinary Journals (J = 17/ Rev. = 37):** Animal Biodiversity and Conservation (1), Anthropocene Coasts (1), Biological Journal of the Linnean Society (1), Global and Planetary Change (1), International Journal of Tropical Biology (1), Journal of Natural History (4), Nature Communications (1), Nature Plants (1); PeerJ (3), PlosOne (10), PNAS- Proceedings of the National Academy of Sciences (1), Proceedings of the Royal Society B – Biological Sciences (5), Royal Society Open Science (1), Scientific Reports (2), Subterranean Biology (1), Science Progress (1), The Scientific World Journal (1), Regional Sustainability (1).

**Others (J = 20; Rev. = 36):** Açoreana (7), Acquisition Review Journal (1), Arquipélago (6), Baltic Forestry (1), BMC Evolutionary Biology (1), Boletim do Museu Municipal do Funchal (1), Comptes rendus Biologies (1), Earth Surface Processes and Landforms (1), ISPRS International Journal of Geo-Information (2); Environmental Monitoring and Assessment (1); Journal of Research in Science and Toxicology (1), Landscape and Urban Planning (1), Miscellània Zoológica (1), Molecular Ecology (2), National Geographic (Edição Portuguesa) (1), Plant Biology (2), Plant Biosystems (1), Portugaliae Zoologica (2), Scientia Insularum - Islands Science (1), Urban Science (1).

#### TEN MOST RELEVANT PUBLICATIONS ARE SO FAR:

1) Hortal, J., **Borges, P.A.V.** & Gaspar, C. (2006). Evaluating the performance of species richness estimators: Sensitivity to sample grain size. *Journal of Animal Ecology*, 75: 274-287. DOI:10.1111/j.1365-2656.2006.01048.x (IF2006: 3.390; Q1 Ecology) (Selected for the first number of *Methods in Ecology and Evolution* 1 (IF2013: 5.322; Q1 Ecology) (2009) <http://www.methodsinecologyandevolution.org/view/0/virtualIssues.html>) (Number Citations before 2016: 220)

2) Cardoso, P., Erwin, T.L., **Borges, P.A.V.** & New, T.R. (2011). The seven impediments in invertebrate conservation and how to overcome them. *Biological Conservation*, 144: 2647-2655. DOI:10.1016/j.biocon.2011.07.024. (IF2011: 4.115; Q1 Biodiversity Conservation) (Number Citations before 2016: 126)

3) **Borges, P.A.V.** & Brown, V.K (1999). Effect of island geological age on the arthropod species richness of Azorean pastures. *Biological Journal of the Linnean Society*, 66: 373-410. DOI:10.1111/j.1095-8312.1999.tb01897.x (IF1999: 1.684; Q3 Evolutionary Biology) (Number Citations before 2016: 62)

4) **Borges, P.A.V.**, Costa, A., Cunha, R., Gabriel, R., Gonçalves, V., Martins, A.F., Melo, I., Parente, M., Raposeiro, P., Rodrigues, P., Santos, R.S., Silva, L., Vieira, P. & Vieira, V. (Eds.) (2010). *A list of the terrestrial and marine biota from the Azores*. Príncipe, Cascais, 432 pp. ISBN: 978-989-8131-75-1. (Number Citations before 2016: 85 in Google Scholar)

5) **Borges, P.A.V.**, Aguiar, C., Amaral, J., Amorim, I.R., André, G., Arraiol, A., Baz A., Dinis, F., Enghoff, H., Gaspar, C., Ilharco, F., Mahnert, V., Melo, C., Pereira, F., Quartau, J.A., Ribeiro, S., Ribes, J., Serrano, A.R.M., Sousa, A.B., Strassen, R.Z., Vieira, L., Vieira, V., Vitorino, A. & Wunderlich, J. (2005). Ranking protected areas in the Azores using standardized sampling of

soil epigeal arthropods. *Biodiversity and Conservation*, 14: 2029-2060. DOI:10.1007/s10531-004-4283-y (IF2005: 1.401; Q2 Biodiversity Conservation) (Number Citations before 2016: 39)

6) **Borges, P.A.V.**, Lobo, J.M., Azevedo, E.B., Gaspar, C., Melo, C. & Nunes, L.V. (2006). Invasibility and species richness of island endemic arthropods: a general model of endemic vs. exotic species. *Journal of Biogeography*, 33: 169-187. DOI:10.1111/j.1365-2699.2005.01324.x (IF2006: 2.878; Q1 Ecology) (Number Citations before 2016: 57)

7) **Borges, P.A.V.** & Hortal, J. (2009). Time, area and isolation: Factors driving the diversification of Azorean arthropods. *Journal of Biogeography* 36: 178-191. Doi:10.1111/j.1365-2699.2008.01980.x (IF2009: 4.087; Q1 Ecology) (J. Biogeography Editors Choice in January 2009) (Number Citations before 2016: 52)

8) Triantis, K.A., **Borges, P.A.V.**, Ladle, R.J., Hortal, J., Cardoso, P., Gaspar, C., Dinis, F., Mendonça, E., Silveira, L.M.A., Gabriel, R., 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. (IF2010: 4.417; Q1 Ecology) (Number Citations before 2016: 60)

9) **Borges, P.A.V.**, Cardoso, P., Kreft, H., Whittaker, R.J., Fattorini, S., Emerson, B.C., Gil, A., Gillespie, R.G., Matthews, T.J., Santos, A.M.C., Steinbauer, M.J., Thébaud, C., Ah-Peng, C., Amorim, I.R., Aranda, S.C., Arroz, A.M., Azevedo, J.M., Boieiro, M., Borda-De-Água, L., Carvalho, J.C., Elias, R.B., Fernández-Palacios, J.M., Florencio, M., González-Mancebo, J.M., Heaney, L.R., Hortal, J., Kueffer, C., Lequette, B., Martín-Esquivel, J.L., López, H., Lamelas-López, L., Marcelino, J., Nunes, R., Oromí, P., Patiño, J., Pérez, A.J., Rego, C., Ribeiro, S.P., Rigal, F., Rodrigues, P., Rominger, A.J., Santos-Reis, M., Schaefer, H., Sérgio, C., Serrano, A.R.M., Sim-Sim, M., Stephenson, P.J., Soares, A.O., Strasberg, D., Vanderporten, A., Vieira, V. & Gabriel, R. (2018). A Global Island Monitoring Scheme (GIMS) for the long-term coordinated survey and monitoring of forest biota across islands. *Biodiversity and Conservation*, **27**: 2567–2586. DOI:10.1007/s10531-018-1553-7

10) Whittaker, R., Rigal, F., **Borges, P.A.V.**, Cardoso, P., Terzopoulou, S., Casanoves, F., Pla, L., Guilhaumon, F., Ladle, R. & Triantis, K.A. (2014). Functional biogeography of oceanic islands and the scaling of functional diversity in the Azores. *PNAS - Proceedings of the National Academy of Sciences*, 111: 13709–13714. DOI:10.1073/pnas.1218036111 (IF2014: 9.674; Q1

## Education & Career

### EDUCATION

- 2008, Aggregation by the University of Azores in Biodiversity.
- 1993-97, PhD Insect Ecology, Imperial College, University London, London.
- 1989-91, MSc Biogeography, University of Azores, Portugal.
- 1984-88, BSc, Biology, University of Lisbon, Faculty of Sciences, Lisbon.

### CAREER

#### Current position

*-Associated Professor with Aggregation at University of Azores (Faculty of Agriculture and Environment; Dep. of Environmental Sciences and Engineer).*

### PUBLICATIONS

#### CODE FOR PUBLICATIONS BASED ON MAIN SCIENTIFIC SHORTFALLS FOR WHICH THEY RESPOND

**LINNEAN SHORTFALL** - The Linnean shortfall is named after Linnaeus, and refers to the discrepancy between formally described species and the number of species that actually exist.

**DARWINIAN SHORTFALL** - The Darwinian shortfall is named after Charles Darwin and refers to lack of knowledge about the tree of life and evolution of lineages, species, and traits.

**WALLACEAN SHORTFALL** - The Wallacean shortfall is named after Alfred Russel Wallace, and refers to lack of knowledge about the geographical distribution of species.

**PRESTONIAN SHORTFALL** - The Prestonian shortfall can be defined as lack of knowledge about the abundance of species and their population dynamics in space and time.

**HUTCHINSON SHORTFALL** - The Hutchinsonian shortfall is described as the lack of knowledge about the tolerance of species to abiotic conditions—their Grinnellian niche.



**RAUNKIÆRAN SHORTFALL** - The Raunkiæran shortfall can be described as the lack of knowledge about species traits and their functions.

**ELTONIAN SHORTFALL** - This shortfall refers to lack of knowledge about interactions among species or among groups of species.

#### **INTERNATIONAL PEER REVIEWED PAPERS (IN JOURNALS WITH IMPACT FACTOR)**

- 1) Rodríguez, M.A., **Borges, P.A.V.** & Gomez-Sal, A. (1997). Species and life-forms composition of Mediterranean mountain pastures in two years of contrasting precipitation. *Flora*, **192**: 231-240. DOI: 10.1016/S0367-2530(17)30789-2 (**IF1997: 0.693; Q3 Plant Sciences**) (<http://hdl.handle.net/10400.3/1412>) **HUTCHINSON SHORTFALL**
- 2) **Borges, P.A.V.** & Brown, V.K (1999). Effect of island geological age on the arthropod species richness of Azorean pastures. *Biological Journal of the Linnean Society*, **66**: 373-410. DOI:10.1111/j.1095-8312.1999.tb01897.x (**IF1999: 1.684; Q3 Evolutionary Biology**) (<http://hdl.handle.net/10400.3/1411>) **WALLACEAN SHORTFALL**
- 3) **Borges, P.A.V.**, Serrano, A.R.M. & Quartau, J.A. (2000). Ranking the Azorean Natural Forest Reserves for conservation using their endemic arthropods. *Journal of Insect Conservation*, **4**: 129-147. DOI:10.1023/A:1009629012205 (**IF2007: 0.690; Q3 Entomology**) (<http://hdl.handle.net/10400.3/1410>)
- 4) **Borges, P.A.V.** & Brown, V.K. (2001). Phytophagous insects and web-building spiders in relation to pasture vegetation complexity. *Ecography*, **24**: 68-82. DOI:10.1034/j.1600-0587.2001.240109.x (**IF2001: 2.078; Q2 Ecology**) (<http://hdl.handle.net/10400.3/1409>)
- 5) Barreto, S., **Borges, P.A.V.** & Guo, Q. (2003). A Typing error in the Tokeshi's test of bimodality. *Global Ecology and Biogeography*, **12**: 173-174. DOI:10.1046/j.1466-822X.2003.00018.x (**IF2003: 2.054; Q2 Ecology**) (<http://hdl.handle.net/10400.3/1408>)
- 6) **Borges, P.A.V.**, Serrano, A.R.M. & Amorim, I.R. (2004). New species of cave-dwelling beetles (Coleoptera: Carabidae: Trechinae) from the Azores. *Journal of Natural History*, **38**: 1303-1313. DOI:10.1080/0022293031000155214 (**IF2004: 0.514; Q3**)

**Biodiversity Conservation) (<http://hdl.handle.net/10400.3/1404>) LINNEAN SHORTFALL**

- 7) **Borges, P.A.V. & Brown, V.K. (2004).** Arthropod community structure in pastures of an island archipelago (Azores): looking for local-regional species richness patterns at small-scales. *Bulletin of Entomological Research*, **94**: 111-121. DOI:10.1079/BER2004289 (IF2004: 1.298; Q1 Entomology) (<http://hdl.handle.net/10400.3/1397>) **WALLACEAN SHORTFALL**
- 8) **Ribeiro, S.P., Borges, P.A.V., Gaspar, C., Melo, C., Serrano, A.R.M., Amaral, J., Aguiar, C., André, G. & Quartau, J.A. (2005).** Canopy insect herbivores in the Azorean Laurisilva forests: key host plant species in a highly generalist insect community. *Ecography*, **28**: 315-330. DOI:10.1111/j.0906-7590.2005.04104.x (IF2005: 2.703; Q1 Ecology) (<http://hdl.handle.net/10400.3/1403>) **RAUNKIÆRAN SHORTFALL**
- 9) **Borges, P.A.V., Aguiar, C., Amaral, J., Amorim, I.R., André, G., Arraiol, A., Baz A., Dinis, F., Enghoff, H., Gaspar, C., Ilharco, F., Mahnert, V., Melo, C., Pereira, F., Quartau, J.A., Ribeiro, S., Ribes, J., Serrano, A.R.M., Sousa, A.B., Strassen, R.Z., Vieira, L., Vieira, V., Vitorino, A. & Wunderlich, J. (2005).** Ranking protected areas in the Azores using standardized sampling of soil epigeal arthropods. *Biodiversity and Conservation*, **14**: 2029-2060. DOI:10.1007/s10531-004-4283-y (IF2005: 1.401; Q2 Biodiversity Conservation) (<http://hdl.handle.net/10400.3/1413>) **WALLACEAN SHORTFALL; PRESTONIAN SHORTFALL**
- 10) **Borges, P.A.V., Lobo, J.M., Azevedo, E.B., Gaspar, C., Melo, C. & Nunes, L.V. (2006).** Invasibility and species richness of island endemic arthropods: a general model of endemic vs. exotic species. *Journal of Biogeography*, **33**: 169-187. DOI:10.1111/j.1365-2699.2005.01324.x (IF2006: 2.878; Q1 Ecology) (<http://hdl.handle.net/10400.3/1402>) **HUTCHINSON SHORTFALL**
- 11) **Hortal, J., Borges, P.A.V. & Gaspar, C. (2006).** Evaluating the performance of species richness estimators: Sensitivity to sample grain size. *Journal of Animal Ecology*, **75**: 274-287. DOI:10.1111/j.1365-2656.2006.01048.x (IF2006: 3.390; Q1 Ecology) (**Selected for the first number of *Methods in Ecology and Evolution* 1 (IF2013: 5.322; Q1 Ecology) (2009) (<http://hdl.handle.net/10400.3/1401>)**
- 12) **Gaston, K.J., Borges, P.A.V., He, F. & Gaspar, C. (2006).** Abundance, spatial variance and occupancy: arthropod species distribution in the Azores. *Journal of Animal*

- Ecology*, **75**: 646-656. DOI: 10.1111/j.1365-2656.2006.01085.x (IF2006: 3.390; Q1 Ecology) (<http://hdl.handle.net/10400.3/1400>) WALLACEAN SHORTFALL; PRESTONIAN SHORTFALL
- 13) Borges, P.A.V., Oromí, P., Serrano, A.R.M., Amorim, I.R. & Pereira, F. (2007). Biodiversity patterns of cavernicolous ground-beetles and their conservation status in the Azores, with the description of a new species: *Trechus isabelae* n. sp. (Coleoptera, Carabidae, Trechinae). *Zootaxa*, **1478**: 21-31 DOI: 10.11646/zootaxa.1478.1.2. (IF2007: 0.691; Q3 Zoology) (<http://hdl.handle.net/10400.3/1398>) LINNEAN SHORTFALL
- 14) Cardoso, P., Borges, P.A.V. & Gaspar, C. (2007). Biotic integrity of the arthropod communities in the natural forests of Azores. *Biodiversity and Conservation* **16**: 2883-2901. DOI:10.1007/s10531-006-9078-x (IF2007: 1.421; Q2 Ecology) (<http://hdl.handle.net/10400.3/1399>) WALLACEAN SHORTFALL; PRESTONIAN SHORTFALL
- 15) Soares, A.O., Borges, I., Borges, P.A.V., Labrie, G. & Lucas, E. (2008). *Harmonia axyridis*: What will stop the invader? *BioControl*, **53**: 127-145. DOI:10.1007/s10526-007-9141-x (IF2008: 1.957; Q1 Entomology) (<http://hdl.handle.net/10400.3/1414>)
- 16) Borges, P.A.V. & Wunderlich, J. (2008). Spider biodiversity patterns and their conservation in the Azorean archipelago, with description of new taxa. *Systematics and Biodiversity*, **6**: 249-282. DOI:10.1017/S1477200008002648. (IF2008: 1.727; Q2 Biodiversity Conservation) (<http://hdl.handle.net/10400.3/1415>) LINNEAN SHORTFALL
- 17) Triantis, K.A., Nogués-Bravo, D., Hortal, J., Borges, P.A.V., Adsersen, 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.2008.0030-1299.16808.x (IF2008: 2.970, Q2 Ecology) (<http://hdl.handle.net/10400.3/1416>)
- 18) Borges, P.A.V. & Hortal, J. (2009). Time, area and isolation: Factors driving the diversification of Azorean arthropods. *Journal of Biogeography* **36**: 178-191. DOI:10.1111/j.1365-2699.2008.01980.x (IF2009: 4.087; Q1 Ecology) (J. Biogeography Editors Choice in January 2009) (<http://hdl.handle.net/10400.3/1417>) DARWINIAN SHORTFALL

- 19) **Borges, P.A.V.**, Hortal, J., Gabriel, R. & Homem, N. (2009). Would species richness estimators change the observed species area relationship? *Acta Oecologica-International Journal of Ecology*, **35**: 149-156. Doi:10.1016/j.actao.2008.09.003 (IF2009: 1.609; Q3 Ecology) (<http://hdl.handle.net/10400.3/1631>)
- 20) Serrano, AR.M., Aguiar, C.A.S., Boieiro, M., **Borges, P.A.V.**, Rego, C., Amorim, I.R., Ribeiro, S.P. & Pereira, F. (2009). A new species of *Orthomus* Chaudoir, 1838 (Coleoptera Carabidae) from Madeira Island (Macaronesia) and notes on related species. *Zootaxa*, **1972**: 20–34. (IF2009: 0.891; Q3 Zoology) (<http://hdl.handle.net/10400.3/1637>) **LINNEAN SHORTFALL**
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*Zootaxa*, **4369**: 144-150. DOI:10.11646/zootaxa.4369.1.9 (IF2018: 0.990; Q3 Zoology) (<http://hdl.handle.net/10400.3/5747>) LINNEAN SHORTFALL; WALLACEAN SHORTFALL.

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**WALLACEAN SHORTFALL; PRESTONIAN SHORTFALL**

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**WALLACEAN SHORTFALL; PRESTONIAN SHORTFALL**

DRYAD DOI

Data package title: Data from: Differential temporal beta-diversity patterns of native and non-native arthropod species in a fragmented native forest landscape

Journal: *Ecography*

Provisional DOI: doi:10.5061/dryad.8rg375s

Data files: nativeSp\_plotData

ExoticSp\_plotData

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- 338)** Amorim, I.R., Pereira, F. & **Borges, P.A.V.** (2022). "Fichas dos habitantes dos ecossistemas subterrâneos dos Açores" – a pulga-do-mar cavernícola da Gruta das Agulhas *Macarorchestia martini*. *Pingo de Lava*, **43**: 92-93.

## **SUPERVISION**

### **POST-DOCS**

#### **Current Post-Docs (4)**

**Guilherme Oyazrabal da Silva (2022-2024)**, with the project “Trait-based prediction of extinction risk and invasiveness for Northern Macaronesian arthropods” (MACRISK), Ref<sup>a</sup> FCT - PTDC/BIA-CBI/0625/2021”.

**Lucas Lamelas-Lopez (2022-2023)**, with the project “FCT - Ref<sup>a</sup> UIDP/00329/2020” Developing integrative biodiversity assessments to monitor global change impacts on biodiversity.

**Noelline Tsafack (2021-2024)**, with the project “LIFE BEETLES (LIFE18 NAT/PT/000864)”.

**Gabor Pozsgai (2021-2024)**, with the project “FCT - Ref<sup>a</sup> UIDP/00329/2020” Developing integrative biodiversity assessments to monitor global change impacts on biodiversity.

#### **Past Post-Docs Researcher and their Projects (24)**

- 1) Joaquin Munoz Hortal (2005-2007); FCT – BPD/20809/2004)** with the project "Assessing the potential of environmental- and assemblage-based approaches to

- conservation biogeography" under co-supervision with Prof Miguel Araújo (Museo Nacional de Ciencias Naturales, Madrid).
- 2) **Pedro Cardoso (2007); FCT –SFRH/BPD/17351/2004** with the project “Towards a conservation oriented biodiversity rapid assessment protocol for mediterranean spiders”
  - 3) **Pedro Cardoso (2007-2008); DRCT – Medida 1.1.2/FRCT** – with the project: “Agriculture, habitat fragmentation, indicator species and conservation of endemic fauna and flora in the Azores – the 2010 Target”, under co-supervision with Prof. Jorge Lobo (Museo Nacional de Ciencias Naturales, Madrid)
  - 4) **Isabel Amorim do Rosário (2007-2010) FCT – SFRH/BPD/29578/2006** with the project: “Dispersal and speciation in the archipelagoes of Macaronesia: a multi-gene analysis of Tarphius beetles and Hipparchia butterflies” under co-supervision with Prof. Brent Emerson (School of Biological Sciences, University of East Anglia).
  - 5) **Clara Gaspar (2009-2011); DRCT – Medida 1.1.2/FRCT** – with the project: “Agriculture, habitat fragmentation, indicator species and conservation of endemic fauna and flora in the Azores – the 2010 Target”, under co-supervision with Prof. Jorge Lobo (Museo Nacional de Ciencias Naturales, Madrid).
  - 6) **Carla Rego (2010-2012); FCT - SFRH/BPD/66934/2009**, with the project: “Predicting extinction risk in island endemics: integrating ecology and conservation genetics in a multi-scale approach” under co-supervision with Aris Parmakelis (Department of Ecology and Taxonomy, Faculty of Biology, National & Kapdistrian University of Athens).
  - 7) **Konstantinos Triantis (2008-2012) FCT – SFRH/BPD/44306/2008** with the project: “Native and invasive species on islands: the functionality perspective” under co-supervision with Prof. Robert Whittaker (University of Oxford, U.K.).
  - 8) **Pedro Cardoso (2009-2012); FCT- SFRH/BPD/40688/2007**, with the project: “Adapting IUCN conservation categories to Invertebrates” under co-supervision with Jonathan Coddington (Smithsonian National Museum of Natural History, USA).
  - 9) **Isabel Amorim do Rosário (2010-2012) FCT - PTDC/BIA-BEC/104571/2008**, with the project “What can the Macaronesian islands teach us about speciation? A case

- study of *Tarphius* beetles and *Hipparchia* butterflies” under co-supervision with Prof. Brent Emerson (School of Biological Sciences, University of East Anglia).
- 10) **François Rigal (2010-2013); FCT - PTDC/BIA-BEC/100182/2008** – with the project: “Predicting extinctions on islands: a multi-scale assessment” under co-supervision with Aris Parmakelis (Department of Ecology and Taxonomy, Faculty of Biology, National & Kapdistrian University of Athens) and Robert Whittaker (University of Oxford, U.K.).
  - 11) **Margarita Florencio (2012-2015); DRCT – Medida 1.1.2/FRCT** – with the project: “Agriculture, habitat fragmentation, indicator species and conservation of endemic fauna and flora in the Azores – the 2010 Target”, under co-supervision with Prof. Jorge Lobo (Museo Nacional de Ciencias Naturales, Madrid).
  - 12) **François Rigal (2012-2015); FCT - PTDC/BIA-BIC/119255/2010**– with the project: “Biodiversity on oceanic islands: towards a unified theory” under co-supervision with Aris Parmakelis (Department of Ecology and Taxonomy, Faculty of Biology, National & Kapdistrian University of Athens) and Robert Whittaker (University of Oxford, U.K.).
  - 13) **Isabel Amorim do Rosário (2012-2015) DRCT/2012**, with the project "Exploring cave microbial biodiversity in the Azores: a metagenomic and metabolomic approach to natural product discovery".
  - 14) **Catarina Alexandra Drumonde Melo (2015) FCT - SFRH/BPD/78059/2011**, with the project: “Solving the Linnean Shortfall in Azorean arbuscular mycorrhizal fungi: the description of new species in the ecosystem of the endangered endemic woody plants *Picconia azorica* and *Juniperus brevifolia*”, under co-supervision with Helena Calado (CEF, Coimbra)
  - 15) **Marco Girardello (2017-2018); FCT-PTDC/BIABIC/0054/2014**, with the project "MACDIV “Macaronesian Islands as a testing ground to assess biodiversity drivers at multiple scales” under co-supervision with François Rigal (University of Pau, France) and Pedro Cardoso (Natural History Museum of Helsinki, Finland).
  - 16) **Carla Rego (2013-2018); FCT - SFRH/BPD/91357/2012**, with the project: “Radiation of phytophagous insects on oceanic islands: analysis of host associated genetic divergence in a speciose group of endemic bugs”.

- 17) **Mário Boieiro (2013-2019); FCT - SFRH/BPD/86215/2012**, with the project: “Host specialization in insect-plant food webs from a relict forest: assessing the roles of phylogenetic, ecological and functional determinants as drivers of community assembly”.
- 18) **Artur José Freire Gil (2015-2019); FCT - SFRH/BPD/100017/2014**, with the project: “ECOSENSING - Development of remote sensing-based indicators for an innovative and effective ecological monitoring and assessment in European agroecosystems”, under co-supervision with Helena Calado (CIBIO) and Duccio Rocchini (Fondazione Edmund Mach, Research and Innovation Centre, Italy).
- 19) **Isabel Amorim do Rosário (2015-2019); FCT - SFRH/BPD/102804/2014**, with the project “Biodiv-WhoCares? Communicating the value of unique biodiversity: targeting non-traditional audiences in the Azores”.
- 20) **Jagoba Malumbres-Olarte (2018-2019); FCT-PTDC/BIABIC/0054/2014**, with the project “MACDIV “Macaronesian Islands as a testing ground to assess biodiversity drivers at multiple scales” under co-supervision with François Rigal (University of Pau, France) and Pedro Cardoso (Natural History Museum of Helsinki, Finland).
- 21) **Catarina Alexandra Drumonde Melo (2017-2020); DRCT AZORES 2020 (M3.1.a./F/038/2016)**, with the project “Solving the Linnean Shortfall in Azorean arbuscular mycorrhizal fungi: the description of new species in the ecosystem of the endangered endemic woody plants *Picconia azorica* and *Juniperus brevifolia*”, under co-supervision with Helena Calado (CEF, University of Coimbra).
- 22) **Maria Teresa Monteiro da Rocha Bravo Ferreira (2017-2020); DRCT AZORES 2020 (M3.1.a./F/038/2016)**, with the project “In situ effects of climate change (rising temperature, and altered precipitation patterns) across different trophic groups in Azorean orchards”, under co-supervision with Rui B. Elias (Azorean Biodiversity Group, cE3c, Univ of Azores).
- 23) **Adara Pardo Valle (2018-2021); (Ayudas para el fortalecimiento de la I+D+i mediante movilidad de investigadores posdoctorales de la Junta de Extremadura)**, with the project “AGROBEEES: Prácticas agrícolas sostenibles para asegurar los servicios ambientales de la polinización y la eficiencia de los sistemas agrarios”, under co-supervision with Gerardo Morenos (Universidad de Extremadura).



24) **Marco Ferrante (2019-2022)**, with the project “ACORES-01-0145-FEDER-000073, AGRO-ECOSERVICES – Assessing ecosystem services and disservices provided by arthropod species in Azorean agroecosystems”.

## PH.D. STUDENTS

### Current Ph.D Students (7)

- **Rui Carvalho** (2016-2019) Ph.D. in Landscape Interdisciplinary Management by the Univ. of Azores and Univ. Évora, also under supervision of Dr. Artur Gil (Univ of Azores) and Prof. Pedro Cardoso (Univ. of Helsinki), with the project “An integrative approach to evaluate the impact of nature touristic trails on biodiversity” (Grant from Azores 2020 –DRCT- M3.1.a/F/135/2015).
- **Juan Pablo Cancela Vallejo** (2019-2023). Biology PhD programme (University of Azores) also under supervision of Prof. Teresa Dias (Faculty of Sciences; Univ. of Lisbon) e Prof. Luisa Carvalheiro (Universidade Federal de Goiás, Brazil) with the project “Arthropod assemblage response to nitrogen pollution in mediterranean shrublands” with reference FCT-SFRH/BD/145175/2019”
- **Alejandra Ros Prieto** (2021-2025). Ph.D. in Landscape Interdisciplinary Management by the Univ. of Azores and Univ. Évora, also under supervision of Rosalima Maria de Almeida Gabriel and Marco Ferrante with the project “Evaluation of ecosystem services in Azorean agroecosystems with different types of management” (M3.1.a/F/021/2020).
- **Sophie Aurélia Wallon** (2021-2025). Ph.D. in Landscape Interdisciplinary Management by the Univ. of Azores and Univ. Évora, also under supervision of Rui Bento Elias with the project “In-situ assessment of the Impact of climate change on pasture quality and associated arthropod communities in Terceira island” (DRCT - M3.1.a/F/018/2020).
- **Ricardo Pires da Costa** (2021-2025). Biology PhD programme (University of Azores) also under supervision of Prof. Pedro Cardoso (Univ. of Helsinki) and Prof. François

Rigal (University of Pau) with the project "Evaluation of rarity and population trends of endemic Azorean arthropods in the light of their functional traits".

- **Hugo Renato Calado** (2022-2026). Biology PhD programme (University of Azores) also under supervision of Prof. António Onofre Soares (Univ. of Azores) and Prof. Rubem Heleno (University of Coimbra) with the project " **Phenotypic Plasticity of Pest and Biological Control Agents: Contrasting Mainland and Insular Agroecosystems**" (M3.1.a/F/012/2021).
- **Sébastien Georges André Lhoumeau** (2022-2026). Biology PhD programme (University of Azores) also under supervision of Prof. João Pinelo Silva (Air Center - Associação Para O Desenvolvimento do Atlantic International ResearchCentre → Dept.: Earth Observation Laboratory) with the project " **The impact of habitat structure change on arthropod food web complexity in Azorean forests**" (M3.1.a/F/012/2022).

#### **Past Ph.D Students (14+2)**

- 1) **Isabel Amorim** (2005) *Colonization and diversification on oceanic islands: forest Tarphius and cave-dwelling Trechus beetles of the Azores*. Ph.D. dissertation, Department of Ecology and Evolutionary Biology, University of California, Los Angeles, 282 pp.
- 2) **Clara Gaspar** (2007) Ph.D. in Biodiversity by the University of Sheffield, U.K, with co-supervision of Kevin J. Gaston. Thesis: Arthropod diversity and conservation planning in native forests of the Azores archipelago.
- 3) **Ana Margarida Santos** (2009). Ph.D. in Ecology by the Imperial College of London, under supervision of Prof. Donald Quicke and my co-supervision. Project: "Adaptative traits and diversity patterns of parasitic wasps (Hymenoptera, Parasitica) on islands".
- 4) **Catarina Melo** (2011). Ph.D. in Ecology by the Universidade de Coimbra, under supervision of Prof. Helena Freitas and my co-supervision. Thesis: Arbuscular mycorrhizal fungal diversity and composition in pastures of Azores: assessing the impact of management practices.

- 5) **Maria Teresa Monteiro da Rocha Bravo Ferreira** (2011). Ph.D. in Entomology by the University of Florida under supervision of Prof. R. Scheffrahn and my co-supervision. Thesis: The origin and spread of the West Indian Drywood Termite *Cryptotermes brevis* (Walker) in the Azores using Genetic Markers, and testing of Colony foundation preventative measures to control its further spread.
- 6) **Silvia Calvo Aranda** (2014) Ph.D. in Plant Ecology by the Univ. of Alcalá (Spain) also under supervision of Prof. Rosalina Gabriel (Univ. Azores) and Prof. Jorge Lobo (Museu de História Natural de Madrid): “Bryophyte diversity patterns in the Macaronesian region”.
- 7) **Sofia Terzopoulou** (2011-2017) Ph.D. in Ecology by the Univ. of Athens, also under supervision of Prof. Kostas A. Triantis and Prof. Aris Parmakelis (both at Univ. of Athens), with the project “Taxonomic, functional and phylogenetic diversity of the coleoptera of the azores: a holistic approach” (Grant: self-funded).
- 8) **Débora Henriques** (2012-2017) Ph.D. in Landscape Interdisciplinary Management by the Univ. of Azores and Univ. Évora, also under supervision of Prof. Rosalina Gabriel (Univ. of Azores), with the project “Bryophyte diversity across an altitudinal gradient in the Azores: Looking for signs of climate change in the functional hyperspace” (Funded by FRCT (M3.1.2/F/051/2011)).
- 9) **Sónia Maria Pereira Duarte** (2012-2015) Ph.D. in Agrarian Sciences by the Univ. of Azores, also under supervision of Prof. Lina Nunes (LNEC), with the project “Symbiotic flagellate protists as a target for subterranean termites control strategies” (Funded by FCT FRH/BD/84920/2012).
- 10) **Ana Picanço** (2012-2018) Ph.D. in Landscape Interdisciplinary Management by the Univ. of Azores and Univ. Évora, also under supervision of Prof. François Rigal (University of Pau, France), with the project “Biodiversity conservation in islands protected areas: the case of plant-insect pollinating networks” (Funded by Azores FRCT M3.1.2/F/031/2011).
- 11) **Rui Nunes** (2012-2018) Ph.D. in Landscape Interdisciplinary Management by the Univ. of Azores and Univ. Évora, also under supervision of Prof. Pedro Cardoso (Univ. of Helsinki) and Prof. António Onofre Soares (Univ. of Azores) with the project “Whole Azorean Arthropod diversity: understanding the trophic relations and functional diversity at a plot scale” (Funded by FRCT (M3.1.2/F/035/2011))

- 12) Rui Jorge Cegonho Raimundo** (2016-2020). Biology PhD programme (Univ. of Évora) also under supervision of Prof. Diogo Francisco Caeiro Figueiredo (Univ. of Évora) with the project “Dinâmica das comunidades de grupos seleccionados de artrópodes terrestres nas áreas emergentes da Barragem de Alqueva (Alentejo: Portugal)”.
- 13) Sietze J. Norder** (2016-2020). BIODIV PhD programme (Faculty of Sciences; Univ. of Lisbon) also under supervision of Prof. Margarida Matos (Univ of Lisbon) and Prof. Kenneth Rijdsdijk (University of Amsterdam) with the project “Island Biogeography in the Anthropocene and Quaternary”.
- 14) Lucas Lamelas López** (2017-2021). Ph.D. in Landscape Interdisciplinary Management by the Univ. of Azores and Univ. Évora, also under supervision of Dr<sup>a</sup> Isabel Amorim (Univ of Azores) and Maria João Ferreira dos Santos (Universidade de Utrecht), with the project “Mammal introductions on oceanic islands across a human disturbance gradient: conservation implications for the Azores islands” (Funded by FCT - SFRH/BD/115022/2016).

***Collaborator in the following Ph.D. thesis***

- 1) Thomas James Matthews** (2011-2015). Ph.D. in Biogeography and Macroecology by the University of Oxford (U.K.). Supervision of Prof. Robert Whittaker (University of Oxford, U.K.). “Analysing and modelling the impact of habitat fragmentation on species diversity: a macroecological perspective”
- 2) Christiana Mara de Assis Faria** (2011-2015). Ph.D. in Evolutionary Biology by the University of East Anglia (U.K.). Supervision of Prof. Brent Emerson (Univ of East Anglia, U.K.). “Colonisation and diversification invertebrates: looking within species on islands to connect pattern and process”.

**MSC STUDENTS (32)**

- 1) **(2000-2001)** Supervised the thesis in Island Ecology and Evolution (Dep. Biology, U.A.) from the student Catarina Alexandra Drumonde Melo, with the thesis: "PADRÕES DE RIQUEZA E DIVERSIDADE DE ESPÉCIES DE ARTRÓPODES EM GRADIENTES ALTITUDINAIS NAS ILHAS TERCEIRA E PICO".
- 2) **(2001-2002)** Supervised the thesis in Nature Management and Conservation (Dep. Agriculture, U.A.) from the student Francisco Osvaldo Dinis, with the thesis: "AVALIAÇÃO DA BIODIVERSIDADE DE ARTRÓPODES DE SÍTIOS DE IMPORTÂNCIA COMUNITÁRIA DOS AÇORES: INFLUÊNCIA DE ACTIVIDADES ECONÓMICAS".
- 3) **(2001-2002)** Supervised the thesis in Nature Management and Conservation (Dep. Agriculture, U.A.) from the student João Amaral, with the thesis: "BIODIVERSIDADE DOS ARTRÓPODOS DO EXTRACTO ARBÓREO-ARBUSTIVO DAS RESERVAS FLORESTAIS NATURAIS DAS FLORES: CONTRIBUTO PARA UM PLANO DE GESTÃO".
- 4) **(2001-2002)** Supervised the thesis in Nature Management and Conservation (Dep. Agriculture, U.A.) from the student Anabela Arraiol, with the thesis: "DEFINIÇÃO DE ÁREAS PRIORITÁRIAS PARA A CONSERVAÇÃO NOS AÇORES ATRAVÉS DA AVALIAÇÃO DA BIODIVERSIDADE DE ARTRÓPODES ENDÉMICOS EPÍGEOS DO SOLO: PADRÕES DE RARIDADE".
- 5) **(2003-2005)** Supervised the thesis in Nature Management and Conservation (Dep. Agriculture, U.A.) from the student Herberto Alves, with the thesis: "USO DE INDICADORES PARA ESTIMAR A BIODIVERSIDADE DE ARTRÓPODES".
- 6) **(2003-2005)** Supervised with Rosalina Gabriel (Dep. Agriculture, U.A.) the thesis in Nature Management and Conservation (Dep. Agriculture, U.A.) from the student Nídia Homem, with the theme: "BIODIVERSIDADE, CONSERVAÇÃO E GESTÃO DE BRIÓFITOS EM DIFERENTES ESCALAS ESPACIAIS NAS FLORESTAS NATURAIS DOS AÇORES (ILHAS TERCEIRA E PICO)".
- 7) **(2006-2007)** Supervised with Francisco Gonzalez (Dep. of Education, UA) the thesis in Environmental Education (Dep. Agriculture, U.A.) from the student Carina Raquel Macedo Rocha Terroso, with the thesis: "A INTERVENÇÃO EM EDUCAÇÃO AMBIENTAL DOS EDUCADORES DE INFÂNCIA DO ARQUIPELAGO DOS AÇORES: INOVAÇÃO OU INDIFERENÇA".

- 8) (2006-2007)** Supervised with Ana Arroz (Dep. of Education, UA) the thesis in Environmental Education (Dep. Agriculture, U.A.) from the student Elsa Maria Costa Silva Carvalho Costa, with the thesis: "PERCEPÇÕES DE RISCO DOS CIDADÃOS SOBRE O IMPACTO DAS PRAGAS NA ILHA TERCEIRA".
- 9) (2006-2007)** Supervised with Cristina Palos (Dep. of Education, UA) the thesis in Environmental Education (Dep. Agriculture, U.A.) from the student Fátima Lina Pamplona Silva, with the thesis: " CONCEITO DE PARTICIPAÇÃO SOCIAL E PRÁTICAS AMBIENTAIS".
- 10) (2007-2008)** Supervised with Luís Silva (Dep. of Biology, UA) the thesis in Human Ecology (Univ. Évora) from the student Mónica Martins, with the thesis: "REVISÃO DO ESTATUTO DE CONSERVAÇÃO (IUCN) DA FLORA VASCULAR ENDÉMICA DOS AÇORES".
- 11) (2007-2009)** Supervised with Miguel Tavarela (Dep. Agriculture, U.A.) the thesis in Nature Management and Conservation (Dep. Agriculture, U.A.) from the student Orlando Guerreiro, with the thesis: "CONTRIBUTION TO THE MANAGEMENT OF THE DRYWOOD TERMITE *CRYPTOTERMES BREVIS* IN THE AZOREAN ARCHIPELAGO".
- 12) (2009)** Supervised with Rosalina Gabriel (Dep. Agriculture, U.A.) and Prof. Robert Whittaker (Oxford University Centre for the Environment) the thesis in Biodiversity, Conservation and Management (Oxford University Centre for the Environment) from the student Laura Jennings (Candidate number: 293306), with the thesis: "AZOREAN CAVE BRYOPHYTES: THE CONSERVATION OF AN UNDERSTUDIED GROUP IN AN UNDER-PROTECTED HABITAT".
- 13) (2009)** Supervised with Prof. Robert Whittaker (Oxford University Centre for the Environment) the thesis in Biodiversity, Conservation and Management (Oxford University Centre for the Environment) from the student Seline Meijer, with the thesis: " THE EFFECTS OF LAND-USE CHANGE ON ARTHROPOD RICHNESS AND ABUNDANCE ON SANTA MARIA ISLAND, THE AZORES".
- 14) (2009)** Supervised with François Guilhaumon (CIBIO-Évora) and Rosalina Gabriel (Dep. Agriculture, U.A.) the thesis in Biodiversity, Conservation and Management (Oxford University Centre for the Environment) from the student Vasiliki Orfanou,

- with the thesis: " PROTECTED AREAS IN THE AZORES: EVALUATING THE IUCN PA NETWORK OF TERCEIRA FOR PROTECTING ENDEMIC SPECIES".
- 15) (2009-2010)** Supervised with Rosalina Gabriel (Dep. Agriculture, U.A.) the thesis in Nature Management and Conservation (Dep. Agriculture, U.A.) from the student Adalberto Borges Couto, with the thesis: "BRIÓFITOS: CONTRIBUTO PARA O CONHECIMENTO DA ECOLOGIA DAS ESPÉCIES RARAS DOS AÇORES.
- 16) (2008-2009)** Supervised with Cristina Palos (Dep. of Education, UA) the thesis in Environmental Education (Dep. Agriculture, U.A.) from the student Teófilo Braga, with the thesis: "ASSOCIATIVISMO, PARTICIPAÇÃO E CONSCIÊNCIA AMBIENTAL".
- 17) (2011-2012)** Supervised with Pedro Cardoso (Dep. Agriculture, U.A.) the thesis in Nature Management and Conservation (Dep. Agriculture, U.A.) from the student Luis Crespo, with the thesis: "Faunística e Conservação das Aranhas (ordem Araneae) nas Ilhas Desertas (Madeira)".
- 18) (2011-2012)** Supervised with Rosalina Gabriel and Rui Elias (Dep. Agriculture, U.A.) the thesis in Environmental Engineer (Dep. Agriculture, U.A.) from the student Enésima Mendonça, with the thesis: " OS SERVIÇOS DOS ECOSISTEMAS: SEQUESTRO DE CARBONO NA RESERVA NATURAL DA ILHA TERCEIRA E A SUA RELAÇÃO COM A BIODIVERSIDADE".
- 19) (2011-2012)** Supervised with David Horta Lopes (Dep. Agriculture, U.A.) the thesis in Environmental Engineer (Dep. Agriculture, U.A.) from the student Liliana Sofia Soares Marques, with the thesis: "A INFLUÊNCIA DA PAISAGEM, DOS FACTORES AMBIENTAIS E DO ESPAÇO NA DENSIDADE DA MOSCA-DO-MEDITERRÂNEO (*CERATITIS CAPITATA* WIEDEMANN) (*DIPTERA: TEPHRITIDAE*) NA ILHA DE SÃO JORGE – AÇORES".
- 20) (2011-2012)** Supervised with Luís Manuel Quintais Cancela da Fonseca (Univ. do Algarve) the thesis in Nature Management and Conservation (Dep. Agriculture, U.A.) from the student Carla Alexandra Mirra Fernandes, with the thesis: "ESTRUTURA DAS COMUNIDADES DE MACROINVERTEBRADOS DE RIBEIRAS PERMANENTES E TEMPORÁRIAS DO SUL DE PORTUGAL E UTILIZAÇÃO DE ÍNDICES DE QUALIDADE ECOLÓGICA NESSES TIPOS DE SISTEMAS"*(Environmental Conditions that constrain Invertebrate Communities and the Performance of Benthic Indices to assess Ecological Status in Mediterranean Streams)*.

- 21) (2011-2012)** Supervised with David Horta Lopes (Dep. Agriculture, U.A.) the thesis in Agronomy (Dep. Agriculture, U.A.) from the student Cristina Moules, with the thesis: " MODELO ESPACIAL DE DISTRIBUIÇÃO DA *MYTHIMNA UNIPUNCTA* (HAWORTH) (LEPIDOPTERA: NOCTUIDAE) (LAGARTA-DA-PASTAGEM) NA ILHA TERCEIRA".
- 22) (2011-2013)** Supervised with Pedro Rodrigues (Universidade dos Açores) the thesis in Nature Management and Conservation (Dep. Agriculture, U.A.) from the student Nelson Braga Moura. with the thesis: "CARACTERIZAÇÃO DOS HABITATS PROPÍCIOS À CONSERVAÇÃO DA ESTRELINHA DE SANTA MARIA (*REGULUS REGULUS SANCTAEMARIAE*)".
- 23) (2014).** Supervised with Prof. Robert Whittaker (Oxford University Centre for the Environment) the thesis in Biodiversity, Conservation and Management (Oxford University Centre for the Environment) of the student George Inglis, with the title: " TREES AS ISLANDS: THE SOUTHWOOD HYPOTHESIS REVISITED IN AZOREAN ARTHROPOD COMMUNITIES"
- 24) (2016).** Supervised with Margarita Florencio (Universidade dos Açores) the thesis in Nature Management and Conservation (Dep. Agriculture, U.A.) from the student Lucas Lamelas with the thesis: "CAMBIOS ANTRÓPICOS Y VARIACIÓN ESPACIO-TEMPORAL EN COMUNIDADES DE MACROINVERTEBRADOS ACUÁTICOS DE LAGUNAS OCEÁNICAS: EL CASO DEL ARCHIPIÉLAGO DE LAS AZORES".
- 25) (2017).** Supervised with Prof. Robert Whittaker (Oxford University Centre for the Environment) the thesis in Biodiversity, Conservation and Management (Oxford University Centre for the Environment) of the student Shan Wong, with the title: "PATTERNS OF SPECIES RICHNESS, ABUNDANCE, AND DISTRIBUTION OF ARBOREAL AND GROUND SPIDER COMMUNITIES IN PRISTINE LAURISILVA FOREST VS. DISTURBED DRY LOWLAND HABITAT ON MADEIRA ISLAND".
- 26) (2020).** Supervised with Jagoba Malumbres-Olarte and Artur Gil ((Univ of Azores) the thesis in Nature Management and Conservation (Dep. Agriculture, U.A.) from the student Alejandra Ros-Prieto with the thesis: "DIVERSIDAD Y CONSERVACIÓN DE ARAÑAS EN HÁBITATS SECOS DE LA MACARONESIA".
- 27) (2020).** Supervised with Prof. Rosalina Maria de Almeida Gabriel (Unicersidade dos Açores) and William José Agudelo Henríquez (Universidad Nacional de Colombia)



the thesis in Nature Management and Conservation (Dep. Agriculture, U.A.) from the student Luisa Fernanda Castellanos Mora with the thesis: " ESCENARIOS DE CAMBIO DE COBERTURA Y USO DE LA TIERRA EN LOS BOSQUES ANDINOS Y PÁRAMOS DEL DEPARTAMENTO DE BOYACÁ COLOMBIA".

**28) (2021)** Supervised with Prof. Olivier Flores (University of La Reunion, France) the thesis in Biology from the student Sébastien Lhoumeau with the thesis: " IMPACT OF SEASONAL TEMPERATURE VARIATIONS ON THE STRUCTURE AND COMPOSITION OF ARTHROPOD COMMUNITIES IN THE HUMID NATIVE FORESTS OF TERCEIRA ISLAND (AZORES)".

**29) (2021)** Supervised with Prof. Maria de Lurdes Nunes Enes Dapkevicius (Universidade dos Açores) the thesis in Nature Management and Conservation (Dep. Agriculture, U.A.) from the student Bruna Sgardioli with the thesis: "EVALUATION OF ENTEROCOCCUS AS AN ENVIRONMENTAL RESERVOIR OF ANTIBIOTIC RESISTANCE ON TERCEIRA ISLAND".

**30) (2021).** Supervised with Prof. Jeroen Scheper (University of Wageningen) the thesis in Biology (University of Wageningen) from the student Timea Kocsis with the thesis: "TEMPORAL CHANGES OF CANOPY ARTHROPODS IN AZOREAN NATIVE FOREST FRAGMENTS".

**31) (2022).** Supervised with Prof. Rui Bento Elias (Universidade dos Açores) the thesis in Nature Management and Conservation (Dep. Agriculture, U.A.) from the student Mauro Matos with the thesis: "POSSÍVEIS IMPACTOS DAS ALTERAÇÕES CLIMÁTICAS NAS POPULAÇÕES DE ARTRÓPODES EM PASTAGENS DA ILHA TERCEIRA".

**32) (2022).** Supervised with Prof. Paulo Monjardino (Universidade dos Açores) the thesis in Nature Management and Conservation (Dep. Agriculture, U.A.) from the student Vera Baier with the thesis: "CHARACTERISTICS AND POTENTIAL OF COFFEE (*C. ARABICA*) AGROFORESTRY RESEARCH AND PRACTICE – A REVIEW".

## PROJECTS

### INTERNATIONAL

#### **sINTERVAL: INTERaction Variation along ALTitudinal gradients (2022-2023)**

Coordinator: Tiffany Knight (German Centre for Integrative Biodiversity Research (iDiv)

Members: Paulo Borges, François Rigal, Ana Picanço (Azorean Biodiversity Group – cE3c).

Other participants: see <https://www.idiv.de/en/sinterval.html>.

Funding Institution: German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig.

Budget for the Azorean Biodiversity Group: 9000 Euros

#### **Effects of species pool and community assembly processes on dung beetle diversity and ecosystem functions in a warming world (DUNGPOOL- PID2021-122380NA-I00) (2022-2025)**

Funding Institution: Agencia Estatal de Investigación, Ministerios de Ciencia e Innovación; Spain.

Coordinator: Ana Margarida Coelho dos Santos (Universidade Autónoma de Madrid, Espanha)

Azorean Biodiversity Group Members: François Rigal (University of Pau).

Budget for the ABG: 176.000,00 Euros.

#### **Biodiversity and biogeography of soil protists in continental and oceanic islands (2018-2021)**

Funding Institution: Swiss National Foundation, Switzerland.

Coordinator: Edward Mitchell (Laboratory of Soil Biodiversity, University of Neuchâtel),

Azorean Biodiversity Group Members: Paulo A.V. Borges and Rosalina Gabriel (Universidade dos Açores-GBA – cE3c).

Budget for the ABG: 10.000,00 Euros.

### **FORWARD - TWG 7 Biodiversity conservation and restoration (2020-2022)**

Funding Institution: EU H2020.

Coordinator: Direcção Regional da Ciência e Tecnologia.

Azorean Biodiversity Group Members: Paulo A.V. Borges, Mário Boieiro, Isabel Amorim and João Pedro Barreiros (Universidade dos Açores-GBA – cE3c).

Budget for the ABG: Not funded.

### **IUCN-SSC Mid-Atlantic Island Invertebrates Specialist Group (2015-2024)**

Co-Chairs: Vicky Kindemba, Paulo A. V. Borges

Group members: Carla Rego, Mário Boieiro, Pedro Cardoso, Virgílio Vieira, Isabel Amorim, Rosalina Gabriel, Ana Arroz, Rui Nunes, Lucas Lamelas Lopez.

### **IUCN-SSC- Spider and Scorpion Specialist Group (2014-2024)**

Chair: Pedro Cardoso

Group members: Paulo Borges; Enésima Mendonça

### **IUCN/SSC Species Monitoring Specialist Group (2016-2024)**

Coordinator: Peter J. Stephenson

Group members: Paulo Borges; Pedro Cardoso

### **sEcoEvo - Biodiversity Dynamics – The Nexus Between Space & Time; (2018-2019).**

Finnanced by the German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig;

Coordinator: Rosemary Gillespie (University of California, Berkeley) and Michael Hickerson (City College of New York, USA);

Role: Team member

### **ESMERALDA -Enhancing ecoSystem sERvices mApping for poLicy and Decision mAKing (2016-2019)**

Coordinators: Benjamin Burkhard (Leibniz Universität Hannover), Marion Potschin (Fabis Consulting Ltd., UK), Joachim Maes (European Commission, DG JRC)

Participants: Paulo A. V. Borges, Ana Picanço & Artur Gil.

Funding Institution: European Community (H2020-SC5-2014- CSA).

Budget for the ABG: 3000 Euros to Support participation in Meetings

**CAMBIO- Holocene insular biodiversity changes on the Macaronesian and Balearic Islands (II) (2018-2020)**

Coordinator: Josep Antoni Alcover Tomás (Departament de Biodiversitat i Conservació, Institut Mediterrani d'Estudis Avançats; Mallorca, Balearic Islands (Spain); Members: Paulo Borges Fernando Pereira (Azorean Biodiversity Group – cE3c).

Funding Institution: Ministerio de Economía, Industria & Competitividad; Spain.

Budget for the Azorean Biodiversity Group: -

**DynaCom- Dynamics of oceanic island arthropod communities in space and Time - (2018-2020)**

Coordinator: Brent Emerson (Instituto de Productos Naturales y Agrobiología (IPNA-CSIC), Tenerife, Canary Islands); Members: Paulo Borges (Azorean Biodiversity Group – cE3c).

Funding Institution: Ministerio de Economía, Industria & Competitividad; Spain.

Budget for the Azorean Biodiversity Group: -

**sEcoEvo - Biodiversity Dynamics – The Nexus Between Space & Time (2018-2019)**

Coordinator: Rosemary Gillespie (University of California, Berkeley) and Michael Hickerson (City College of New York, USA)

Members: Paulo Borges, Jairo Patiño (Azorean Biodiversity Group – cE3c).

Other participants: Brent C Emerson; Rampal S. Etienne; Catherine Graham; Joaquin Hortal; Petr Keil; Tiffany Marie Knight; Luke Mahler; Francois Massol; Angela McGaughran; Brian McGill; Isaac Overcast; Christine Parent; Katie Wagner; James Rosindell; Dylan Craven; Harmon, Luke; Andy Rominger; Jonathan Chase.

Funding Institution: German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig.

Budget for the Azorean Biodiversity Group: 3000 Euros

**COST Project CA17122 - INCREASING UNDERSTANDING OF ALIEN SPECIES THROUGH CITIZEN SCIENCE (ALIEN-CSI) (2018-2021)**

Coordinator: Helen Roy (NERC Centre for Ecology & Hydrology (U.K.).

Members Azorean Biodiversity Group: Paulo Borges, António Onofre Soares, Rui B. Elias, Isabel Borges, Artur Gil.

Funding Institution: European Union.

**LIFE- Project (Life12 bio7pt/000110). Restauo Ecológico e Conservação da Infra-Estrutura Verde Húmida Costeira da Praia da Vitória (LIFE-CWR) (2013-2017)**

Coordinators: Paulo Borges, Rosalina Gabriel, João Pedro Barreiros, Rui Elias, José Azevedo (Azorean Biodiversity Group).

Funding Institution: European Union.

Budget for the ABG: 28.000,00€.

**COST Project 2012-1-12550 - European Information System for Alien Species (2013-2016)**

Coordinator: Helen Roy (NERC Centre for Ecology & Hydrology (U.K.).

Members Azorean Biodiversity Group: Paulo Borges, António Onofre Soares, Rui B. Elias, Isabel Borges, Artur Gil.

Funding Institution: European Union.

**NETBIOME/0003/2011 - ISLAND-BIODIV: Understanding biodiversity dynamics in tropical and subtropical islands as an aid to science based conservation action (2012-2015)**

Coordinator: Brent Emerson (Instituto de Productos Naturales y Agrobiología (IPNA-CSIC), Tenerife, Canary Islands); Members: Paulo Borges, Rui B. Elias (CITA-A – Azorean Biodiversity Group); Pedro Oromí, José María Fernández-Palacios (Univ de La Laguna, Canaries, Spain); Dominique Strasberg (Université de La Réunion); Christophe Thébaud (Université Paul Sabatier (Toulouse 3)), Juli Caujapé-Castells (Jardín Botánico Canario “Viera y Clavijo” – Unidad Asociada CSIC)

Coordinator Portugal: Paulo Borges; Members: Rui B. Elias, António Onofre Soares, Pedro Cardoso, Carla Rego, José Marcelino, Isabel Amorim, Fernando Pereira (added recently: Rui Nunes, Maria Teresa Ferreira). Grant Student: Rui Carvalho

Funding Institution: European Union.

Budget for the Azorean Biodiversity Group: 61.044,00€

**EU Eurodyssee Project and EU -ERASMUS Training** “Long Term Ecological Study of the Impacts of Climate Change in the natural forest of Azores” (Year 2012-2017)

Coordinator: Paulo Borges; Members; Rui Nunes; Rui Carvalho

Budget for the Azorean Biodiversity Group: NETBIOME \_ISLANBIODIV; and Student Grants from EU Eurodyssee Project and EU -ERASMUS Training

Partners: Natural Parks of Santa Maria, Terceira, Faial, Pico, Flores, Graciosa, SPEA, the Botanical Garden of Faial and the Furnas Monitoring and Research Centre

#### **BIG – Biodynamical Island Group – (2013-2015)**

This is an International consortium research group implemented to model the General Dynamic Model of Island Biogeography. Funded by a Sapere Aude Young Elite Researcher grant awarded by the Danish Councils for Independent Research to the leader of the project (Michael K. Borregaard) - includes 14 international Researchers, where five of them are either integrated members (P.A.V. Borges, F. Rigal; Isabel Amorim), Ph.D. students (T. Matthews) or collaborators (K. Triantis, R. Whittaker), of Azorean Biodiversity Group

Budget for the Azorean Biodiversity Group: 5.000,00€

#### **ISLANDS - Community Assembly on Remote Islands: Does the Equilibrium Theory Apply? – (2012-2015)**

This is an International consortium research group implemented by French CESAB - Center for Synthesis analysis of biodiversity. It includes 14 international Researchers, where three of them are either integrated members (P.A.V. Borges) or collaborators (K. Triantis, R. Whittaker) of Azorean Biodiversity Group

Budget for the Azorean Biodiversity Group: 3.500,00€

## **NATIONAL**

### **Funded by FCT (Portuguese Science Foundation)**

#### **FCT - PTDC/BIA-CBI/0625/2021– MACRISK-Trait-based prediction of extinction risk and invasiveness for Northern Macaronesian arthropods (2022-2025)**

Coordinators: Paulo A. V. Borges & Rosalina Gabriel;

Other participants from Azorean Biod. Group: Pedro Cardoso (Finnish Museum of Natural History, Univ. Helsinki, Helsinki, Finland); François Rigal (University of Pau); Ana Santos (Universidade Autónoma de Madrid, Spain); Jagoba Malumbres-Olart; Isabel Amorim, Mário Boieiro.

Project's consultants: Kostas Triantis (Department of Ecology and Taxonomy, Faculty of Biology, National & Kapdistrian University of Athens), Axel Hochkrich (Trier Centre for Biodiversity Conservation of the University Trier, Germany)), Michael Samways (Department of Conservation Ecology & Entomology, Stellenbosch University, South Africa).

Budget for the Azorean Biodiversity Group: 206.486,03€

#### **FCT- FG “Field Guide: Designing Mobile Interactive Tools for Place-Based Learning” (2018-2021)**

Coordinator: Sónia Matos (M-ITI ([www.m-iti.org](http://www.m-iti.org)); Co-PI – Rosalina Gabriel (GBA-cE3c)

Other participants from ABG: Paulo A.V. Borges, Isabel Amorim, Ana Arroiz (Universidade dos Açores- GBA – cE3c).

Budget for the ABG: 65.000,00 Euros of a total of 239.938,00 Euros.

#### **FCT-PTDC/BIABIC/0054/2014– MACDIV “Macaronesian Islands as a testing ground to assess biodiversity drivers at multiple scales” (2016-2020)**

Coordinators: Paulo A. V. Borges & François Rigal;

Other participants from Azorean Biod. Group: Pedro Cardoso (Finnish Museum of Natural History, Univ. Helsinki, Helsinki, Finland); Isabel Amorim, Mário Boieiro, José Carlos Carvalho, Rosalina Gabriel, Fernando Pereira, Carla Rego.

Other participants from other Institutions: Octávio Paulo (Univ. Lisbon, cE3c); Brent Emerson (Island Ecology and Evolution Research Group, Instituto de Productos Naturales y Agrobiología, Canary Islands, Spain); Miquel Arnedo, Luis Crespo (Departament de Biologia Animal, Universitat de Barcelona, Barcelona, Spain); Jagoba Malumbres Olarte (University of Copenhagen); Maria Romeiras (ISA, University of Lisbon).

Project's consultants: Robert Whittaker (Biodiversity Research Group, Oxford University Centre for the Environment); Kostas Triantis (Department of Ecology and Taxonomy, Faculty of Biology, University of Athens); Rosemary Gillespie (University of California, Berkeley); José María FernándezPalacios (University of La Laguna)

Budget for the Azorean Biodiversity Group: 197.628,00€

**FCT- PTDC/BIA-BIC/1013/2014– 2gether “Threatened specialized interactions endemic to a biodiversity hotspot” (2016-2020)**

Coordinator: Mário Boieiro;

Other participants from Azorean Biod. Group: Paulo A.V. Borges; Carla Rego; Fernando Pereira; José Carlos Carvalho; Pedro Cardoso (Finnish Museum of Natural History, Univ. Helsinki, Helsinki, Finland),

Other participants from other Institutions: Artur Serrano, Carlos Aguiar and Rui Rebelo (Univ. Lisbon, cE3c); Luisa Carvalheiro (University of Brasília); Dília Menezes (SPNM – Serviço do Parque Natural da Madeira);

Project's consultants: Jens Mogens Olesen (Department of Bioscience - Genetics, Ecology and Evolution, Aarhus University); Xavier Espadaler Gelabert (CREAF, Universitat Autònoma de Barcelona).

Budget for the Azorean Biodiversity Group: 139.368,00€ (10.140,00€ for FGF)

**FCT- PTDC/BIA-BIC/5558/2014– MOMENTOS “Spatial scaling of species diversity” (2016-2020)**

Coordinator: Luis Borda-de-Água (CIBIO);

Other participants from Azorean Biod. Group: Paulo A.V. Borges; Rosalina Gabriel, Pedro Cardoso (Finnish Museum of Natural History, Univ. Helsinki, Helsinki, Finland).



Other participants from other Institutions: Henrique Pereira (Biodiversity Conservation, iDiv, Leipzig); Francisco Dionísio (cE3c)

Budget for the Azorean Biodiversity Group: 7.290,00€ of a total of 98.574,00€

**PTDC/BIA-BIC/119255/2010 – “Biodiversity on oceanic islands: towards a unified theory” (2012-2016)**

Coordinators: Paulo A. V. Borges and Kostas Triantis;

Other participants from Azorean Biod. Group: Ana Margarida Santos, Isabel Amorim, Pedro Cardoso, François Rigal (Post-Doc of the Project).

Other participants from other Institutions: Manuel Sapage (Univ of Lisbon, CBA); Robert Whittaker (Biodiversity Research Group, Oxford University Centre for the Environment); Aris Parmakelis (Department of Ecology and Taxonomy, Faculty of Biology, National & Kapdistrian University of Athens)

Project’s consultants (Brent Emerson, John Halley, Joaquin Hortal; Richard Ladle; Luis António Borda Água)

Projects Collaborators (Miguel Ferreira and James Rosindell)

Budget for the Azorean Biodiversity Group: 99.000,00€

**FCT- PTDC/BIA-BEC/100182/2008 – “Predicting extinctions on islands: a multi-scale assessment” (2010-2013)**

Coordinator: Paulo Borges (Azorean Biodiversity Group); Members: Kostas Triantis, Luís Crespo, François Rigal, Carla Rego, Fernando Pereira. Robert Whittaker (Biodiversity Research Group, Oxford University Centre for the Environment); Aris Parmakelis (Department of Ecology and Taxonomy, Faculty of Biology, National & Kapdistrian University of Athens).

Budget for the Azorean Biodiversity Group: 194.907,00€

**FCT - PTDC/BIA-BEC/104571/2008 – “What can the Macaronesian islands teach us about speciation? A case study of Tarphius beetles and Hipparchia butterflies” (2010-2012)**

Coordinator: Paulo Borges; Members: Rosalina Gabriel; Ana Moura Arroiz; Isabel Amorim; Fernando Pereira;

Other participants: Brent Emerson and Christiana Faria (Centre for Ecology, Evolution and Conservation, School of Biological Sciences, University of East Anglia); Artur R. M. Serrano (CBA- Fac. de Ciências de Lisboa).

Budget for the Azorean Biodiversity Group: 120.000,00€

**FCT - PTDC/CCI/72381/2006 - ÁFRICA ANNES - Social perception in environmental risk communication – (2009-2011)**

Coordinator: António Felix Rodrigues (CITA-A); Members: Rosalina Gabriel; Ana Moura Arroiz; Paulo Borges.

Budget for the Azorean Biodiversity Group: 10.907,00€

**FCT - PTDC/AMB/70801/2006 - Understanding Underground Biodiversity: Studies of Azorean Lava Tubes. (2009-2011)**

Coordinator: Maria de Lurdes Nunes Enes Dapkevicius (CITA-A); Members: Rosalina Gabriel, Paulo Borges, Isabel Amorim, Fernando Pereira.

Budget for the Azorean Biodiversity Group: 5.000,00€

**FCT - Green Islands Project – “Use of woody plant biomass for energy production in the Azores Islands” – (2010-2012)**

Coordinator: Luís Silva (CIBIO- Azores); Members: Rosalina Gabriel, Paulo Borges, Sílvia Calvo, Artur Gil.

Budget for the Azorean Biodiversity Group: 13.348,00€ Euros.

**FCT - PTDC/BIA-BEC/099138/2008 - Conflict between human activities and the conservation of island endemics in a Global Biodiversity Hotspot. (2010-2013)**

Coordinator: Artur Serrano (CBA- Lisbon) ; Members: Paulo Borges, Carla Rego, Clara S. Gaspar, Pedro Cardoso, Alberto J. Valverde, Joaquin Hortal, Ana Margarida Santos, Fernando Pereira.

Budget for the Azorean Biodiversity Group: 8.000,00€ (Field Work)

**FCT - PTDC/BIA-BEC/098783/2008 - Adaptive significance and genetic basis of a balanced colour-polymorphism. (2010-2012)**

Coordinator: Sofia Seabra (CBA- Lisbon); Members: Paulo Borges.

Budget for the Azorean Biodiversity Group: 3.000,00€ (Field Work)

**FCT - PTDC/AGR-AAM/108312/2008. “An omnipotent guest in an omnipotent pest: Aphids/Wolbachia case “(2010-2013)**

Coordinator: Manhaz Khadem (Univ. Madeira); Members: Paulo Borges.

Budget for the Azorean Biodiversity Group: 3.000,00€

**OTHER NATIONAL FUNDING**

**Matela – uma ilha de Biodiversidade (2022-2023)**

Funding: Associação Viridia

Coordinator: Rosalina Gabriel & Paulo A. V. Borges.

Other team members: Ana Moura Arroz, Isabel R. Amorim, Mário Boieiro, Rui Bento Elia

Budget for the Azorean Biodiversity Group: 20.000,00€

**REGIONAL PROJECTS (AZORES)**

**(2022-2024) Summer School in Island Biogeography and Macroecology (CURSO INTENSIVO DE VERÃO - 2ª escola de verão GRUPO DA BIODIVERSIDADE) - PO Azores Project M3.3.E ORG C.I.V.2021 /A/002**

Funding Institution: DRCT - Direcção Regional da Ciência e Tecnologia do Governo Regional dos Açores

Coordinator: Paulo A.V. Borges (Universidade dos Açores- GBA – cE3c).

Members: Rosalina Gabriel, Rui Bento Elias, Isabel R. Amorim, Mário Boieiro, Gabor Pozsgai, Noelline Tsafack..

Budget for the ABG: 90.000,00 Euros.

**(2022-2023) Portal da Biodiversidade dos Açores (2022-2023) - PO Azores Project - M1.1.A/INFRAEST CIENT/001/2022**

Funding Institution: DRCT - Direcção Regional da Ciência e Tecnologia do Governo Regional dos Açores

Coordinator: Paulo A.V. Borges (Universidade dos Açores- GBA – cE3c).

Members: See <https://azoresbiportal.uac.pt/current-team-members/>.

Budget for the ABG: 50.000,00 Euros.

**(2021-2024) Apoio ao funcionamento do Grupo da Biodiversidade dos Açores - Centro de Ecologia, Evolução e Alterações Ambientais (GBA-cE3c) - PO Azores Project -**

**M1.1.A/FUNC.UI&D/010/2021-2024**

Funding Institution: DRCT - Direcção Regional da Ciência e Tecnologia do Governo Regional dos Açores

Coordinator: Paulo A.V. Borges (Universidade dos Açores- GBA – cE3c).

Members: All Integrated Members of - GBA – cE3c.

Budget for the ABG: 200.000,00 Euros.

**(2021-2022) Reequipamento científico GBA-cE3c - 2021 - PO Azores Project -**

**M1.1.A/REEQ.CIENTÍFICO UI&D/2021/004**

Funding Institution: DRCT - Direcção Regional da Ciência e Tecnologia do Governo Regional dos Açores

Coordinator: Paulo A.V. Borges (Universidade dos Açores- GBA – cE3c).

Members: All Integrated Members of - GBA – cE3c.

Budget for the ABG: 210.000,00 Euros.

**(2020-2024) Preparatory and Monitoring Actions for Life Beetles Project (LIFE18**

**NAT/PT/000864)**

Funding Institution: AZORINA (LIFE EU Project) .

Coordinator: Paulo A.V. Borges (Universidade dos Açores- GBA – cE3c).

Members: Alejandra Ros-Prieto, Mário Boieiro and Maria Teresa Ferreira (Universidade dos Açores- GBA – cE3c).

Budget for the ABG: 111.890,00 Euros.

**(2019-2021) Estratégia regional para o controlo e prevenção de espécies exóticas invasoras (LIFE IP AZORES NATURA (LIFE17 IPE/PT/000010)**

Funding Institution: Direcção Regional do Ambiente dos Açores.

Coordinator: Paulo A.V. Borges (Universidade dos Açores- GBA – cE3c).

Members: Rosalina Gabriel, Rui Bento Elias, David Horta Lopes, António Onofre Soares e Lucas Lamelas López (Universidade dos Açores- GBA – cE3c).

Budget for the ABG: 122.000,00 Euros.

**(2016-2022) Azores Bioportal - PORBIOTA**

Coordinator: Paulo A.V. Borges (Universidade dos Açores-GBA – cE3c).  
Azorean Biodiversity Group Members: Rosalina Gabriel, Ana M. Arroz, Isabel R. Amorim, António Onofre Soares, Enésima Mendonça, João Pedro Barreiros, Rui Elias (Universidade dos Açores-GBA – cE3c) and Pedro Cardoso (Finnish Museum of Natural History, Univ. Helsinki, Helsinki, Finland).  
Budget for the ABG: 299.901,00 Euros.

**PO Açores (2019-2022)- AGRO-ECOSERVICES - Assessing ecosystem services and disservices provided by arthropod species in Azorean agroecosystem**

Coordinator: Paulo A.V. Borges (Universidade dos Açores-GBA – cE3c).  
Members: António Onofre Soares (Universidade dos Açores-GBA – cE3c), (Rui Nunes (Universidade dos Açores-GBA – cE3c), Artur Gil (Universidade dos Açores-GBA – cE3c), David João Horta Lopes (Universidade dos Açores-GBA – cE3c), Marco Girardello and Gabor Lövei (Aarhus University).  
Budget for the ABG: 178.209,00 Euros.

**PO Açores (2019-2022) - PASTURCLIM - Impact of climate change on pasture's productivity and nutritional composition in the Azores**

Coordinator: Rui Elias (Universidade dos Açores-GBA – cE3c).  
Members: Maria Teresa Ferreira and Paulo A.V. Borges (Azorean Biodiversity Group, cE3c); João da Silva Madruga e Alfredo Emilio Silveira de Borba (Institute of Agricultural and Environmental Research and Technology (IITAA)) and João da Silva Madruga (Institute of Agricultural and Environmental Research and Technology (IITAA));  
Budget for the ABG: 179.444,78 Euros

**PO Açores 2016-2018 PROAAcXXIs - Projecções das alterações climática nos açores para o século XXI: Implicações hidrológicas de interesse agronómico e ambiental**

Coordinator: Eduardo Brito de Azevedo (Universidade dos Açores)  
Members: Eduardo Brito de Azevedo (Universidade dos Açores), Paulo A.V. Borges (cE3c-GBA), Rosalina Maria de Almeida Gabriel (cE3c-GBA), Rui Miguel Pires Bento da Silva Elias (cE3c-GBA), Joana Barcelos Ramos (Universidade dos Açores), Jorge Pinheiro, João S. Madruga, Luís Santos Pereira (Instituto Superior de Agronomia, Lisboa, Portugal;

Consultor), Pedro M. Miranda (Faculdade de Ciências da Universidade de Lisboa, Portugal; Consultor)

Budget for the ABG:

**PO Açores 2016-2018 GreenGA - Green Gardens - Azores**

Coordinator: Maria Isabel Whitton Terra Soares de Albergaria (Universidade dos Açores)

Members: Maria Isabel Whitton Terra Soares de Albergaria (Universidade dos Açores), Ana Moura Arroz (cE3c-GBA), Rosalina Maria de Almeida Gabriel (cE3c-GBA), João Porteiro (Universidade dos Açores), Maria João Pereira (Universidade dos Açores), Carlos Santos (Universidade dos Açores), Paulo A.V. Borges (cE3c-GBA; Consultor)

Budget for the ABG:

**Secretaria Regional do Turismo & Transportes** - “Vistoria para reconhecimento e localização dos ataques dos xilófagos em todos os pisos e coberturas do palácio dos Capitães Gerais, em Angra do Heroísmo, Palácio da Conceição, Palácio de Sant’Ana e Igreja de Nossa Senhora do Carmo, em Ponta Delgada, assim como indicação das medidas profilácticas a adoptar e tratamentos a executar” (2014-2017)

Coordinator: Paulo Borges; Members: Orlando Guerreiro

Budget for the Azorean Biodiversity Group: 77.000€

**Câmara Municipal da Praia da Vitória** - “Control of the Termite *Reticulitermes flavipes* in Praia da Vitória (Terceira) (2014-2017) - **Contract S\_257\_2013**

Coordinator: Paulo Borges; Members: Lina Nunes; Orlando Guerreiro

Budget for the Azorean Biodiversity Group: 50.000,00€

**DRAM- Direcção Regional do Ambiente (Secretaria Regional da Agricultura e Ambiente)**

“Control of the Termite *Reticulitermes* species in Praia da Vitória (Terceira) and Horta (Faial)” (2015-2019) SAI-DRA-2015/2614 -P009.07.01/193

Funded by DRAM -Azores

Coordinator: Paulo A. V, Borges; Members: Lina Nunes, Orlando Guerreiro

Budget for the Azorean Biodiversity Group in 2015: 14.950,00 €

**DRAM- Direcção Regional do Ambiente (Secretaria Regional da Agricultura e Ambiente)**

“Control and Eradication plan for of the drywood termite *Cryptotermes brevis* in Azores”

(2015-2020) SAI-DRA-2015/3713 -P009.07.01/250

Funded by DRAM –Azores

Coordinator: Paulo A. V, Borges; Members: Lina Nunes, Orlando Guerreiro

Budget for the Azorean Biodiversity Group in 2015: 29.994,00 €

**DRAM- Direcção Regional do Ambiente (Secretaria Regional da Agricultura e Ambiente)**

- “Monitorização da espécie *C. brevis* no Arquipélago dos Açores” (Years 2014-2015) - SAI-

DRA-2015/2110 -P009.07.01/195.

Coordinator: Paulo Borges; Members: Orlando Guerreiro

Budget for the Azorean Biodiversity Group: 6.050,00€

**DRAM- Direcção Regional do Ambiente (Secretaria Regional da Agricultura e Ambiente)**

- “Monitorização da espécie *C. brevis* no Arquipélago dos Açores” (Years 2016-2017)

Coordinator: Paulo Borges; Members: Maria Teresa Ferreira

Budget for the Azorean Biodiversity Group: 13.000,00€

**DRCT - M221-I-002-2009 TERMODISP - A térmita de madeira seca *Cryptotermes brevis* (Walker) nos Açores: Monitorização dos voos de Dispersão e prevenção da colonização. (2009-2011)**

Coordinator: Paulo Borges; Members: Ana Moura Arroz, Ana Simões, Orlando Guerreiro, Annabella Borges, Nuno Ponte, Filomena Ferreira.

Budget for the Azorean Biodiversity Group: 183.029,00€

**DRCT - M3.2.3/I/019B/2009, no âmbito da Medida 3.2.3 – “Apoio à edição de publicações científicas”, no âmbito do Eixo 3.2 – “Incentivos à produção científica”, do Programa 3 (Apoio à formação avançada (FORMAC)- “Abordagens ao ambiente em contexto escolar” (2009-2010)**

Coordinator: Rosalina Gabriel; Members: Ana Moura Arroz, Paulo Borges

Budget for the Azorean Biodiversity Group: 5.000,00€

**DRCT- M2.1.2/I/005/2011 - Implications of climate change for Azorean Biodiversity - IMPACTBIO (2012-2014)**

Coordinator: Rui B. Elias; Members: Paulo A. V. Borges, Rosalina Gabriel, Silvia Calvo, Pedro Cardoso

Budget for the Azorean Biodiversity Group: 40.000,00€

**DRCT- M2.1.2/I/027/2011 - Mapping coastal and marine biodiversity of the Azores - ATLANTIS-MAR (2012-2014)**

Coordinator: Paulo A. V. Borges; Members: Enésima Mendonça, Pedro Cardoso, João Pedro Barreiros, Rosalina Gabriel, Rui Elias

Budget for the Azorean Biodiversity Group: 67.900,00€

**DRCT- M3.2.2/I/017/2012\_ - XV Congresso Iberico de Entomologia (2012)**

Coordinator: Paulo A. V. Borges; Members: Carla Rego

Budget for the Azorean Biodiversity Group: 8.200,00€

**DRCT- (M3.1.7/F/002/2011) Impact of Land-Use changes in the arthropod fauna of the Azores (2012-2015).**

Coordenador: Paulo A. V. Borges; Membros: Margarita Patricia Florencio Díaz, Jorge M Lobo.

Orçamento para o Grupo da Biodiversidade dos Açores: 63.000,00€ euros

**Câmara Municipal da Praia da Vitória - “Monitorização da Térmita subterrânea *Reticulitermes flavipes* no concelho da Praia da Vitória, Ilha Terceira” (2010)**

Coordinator: Paulo Borges; Members: Lina Nunes; Orlando Guerreiro, Annabella Borges, Filomena Ferreira.

Budget for the Azorean Biodiversity Group: 9.000,00€



**Secretaria Regional de Ciência e Tecnologia e Equipamentos** - “Vistoria para reconhecimento e localização dos ataques dos xilófagos em todos os pisos e coberturas do palácio dos Capitães Gerais, em Angra do Heroísmo, Palácio da Conceição, Palácio de Sant’Ana e Igreja de Nossa Senhora do Carmo, em Ponta Delgada, assim como indicação das medidas profiláticas a adoptar e tratamentos a executar” (2010-2013)  
Coordinator: Paulo Borges; Members: Orlando Guerreiro, Annabella Borges, Filomena Ferreira.

Budget for the Azorean Biodiversity Group: 45.000€