

## **CURRICULUM VITAE**

*Joana Isabel Espírito Santo Robalo*

Date of birth: 26 October 1973, Portuguese

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### **Academic Degrees**

2008 – PhD in Biology (University of Oporto) - “Phylogeny, phylogeography and behaviour of the Iberian cyprinids of the genus *Chondrostoma*”. Supervisors: Professor Doutor Alexandre Valente (FCUP) and Doutor Ignacio Doadrio (MNCN – Madrid).

1999 – Master in Ethology (ISPA-IU) – “Some aspects of the social behaviour of *Triturus marmoratus* (Latreille, 1800) in captivity”. Supervisor: Professor Doutor Vítor Almada (ISPA-IU).

1995 – Biology Degree (Faculty of Sciences, University of Lisbon).

### **Teaching Activity**

2008/ present – Assistant Professor (“Professor Auxiliar” in Portuguese) in ISPA-IU.

1999/ 2008 – Teaching Assistant in ISPA-IU.

### **Projects**

2014/2017 - “Adaptation or plasticity as response to large scale translocations and harvesting over a climatic gradient in the marine ecosystem?”, Research Project No. 234328/E40, Norwegian Research Council. Participant.

2014/2017- “Influence of Tecto-Vulcanism on the Evolutionary History of the freshwater fish fauna in the Central Mexico Plateau”. Research Project No. CGL2013-41375-P, CSIC, Spain. Participant.

2014/2017- “Les impacts des changements climatiques sur la diversité génétique des poissons des eaux douces du Maroc”, Ministère de l’Enseignement Supérieur, de la Recherche Scientifique et de la Formation des Cadres, Morocco. Participant.

2013/2014 - “Evolución y conservación de los vertebrados unisexuados endémicos del río Estena (Parque Nacional de Cabañeros)” . Participant.

2009/2012 – “Portuguese Atlantic- and Mediterranean-type Rivers under the effects of climate changes: current and historical demography and comparative phylogeography of fishes as a tool for the conservation of critically endangered species” (PTDC/AAC-CLI/103110/2008). Participant.

2009/2012- “Phylogenetics, Biogeography and the Evolution of Behavior and Morphology of Blennioidei and Gobiesocoidae” (PTDC/MAR/101639/2008). Participant.

2008/2011 – “Marine phylogeographic structuring during climate change: the signature of leading and rear edge of range shifting populations”. European Project, MarinERA. Participant.

2008/2010 – “Alternative reproductive tactics in teleost fish: the peacock blenny (*Salaria pavo*) as a study model” (PTDC/MAR/69749/2007). Participant.

2008/2010 – “Sound production in sand gobies of the genus *Pomatoschistus*: inter- and intraspecific communication” (PTDC/MAR/68868/2006). Participant.

2004/2005 – “Evolution of feeding and agonistic behaviors in cyprinid fishes of the genus *Chondrostoma*”. Funded by ISPA. Principal Researcher.

2001/2003 – “Biogeography, gene flow and biodiversity of rocky shore fish communities in Portugal” (PNAT/1999/BIA/15017). Participant.

## Papers

2015 - Fonseca JP, Levy, A, Henriques R, Costa JC, Neto C, Robalo J. Phylogenetic approach of the section *Bulbocodium* D.C. of *Narcissus* based on cpDNA. A case of taxonomic inflation? *Plant Biosystems - An International Journal Dealing with all Aspects of Plant Biology: Official Journal of the Societa Botanica Italiana*, DOI: 10.1080/11263504.2014.1001460.

2014 - Pereira AM, Brito C, Sanches J, Sousa-Santos C, Robalo JI. Absence of consistent genetic differentiation among several morphs of *Actinia* (Actiniaria: Actiniidae) occurring in the Portuguese coast. *Zootaxa*. 2014 Dec 10;3893(4):595-600. doi: 10.11646/zootaxa.3893.4.9.

2014 – SM Francisco, VC Almada, C Faria, EM Velasco, JI Robalo. Phylogeographic pattern and glacial refugia of a rocky shore species with limited dispersal capability: the case of Montagu's blenny (*Coryphoblennius galerita*, Blenniidae) *Marine Biology*, 161 (11); 2509-2520.

2014 – Different stocks of brook lampreys in Spain and their origin from *Lampetra fluviatilis* at two distinct times and places. *Journal of Fish Biology* 85 (5), 1793–1798.

- 2014 - Sousa-Santos C, Robalo JI, Francisco SM, Carrapato C, Cardoso AC, Doadrio I. Metapopulations in temporary streams – the role of drought-flood cycles in promoting high genetic diversity in a critically endangered freshwater fish and its consequences for the future. *Molecular Phylogenetics and Evolution* 80:281-96. doi: 10.1016/j.ympev.2014.08.007.
- 2014 - Sousa-Santos C, Robalo J, Pereira A, I Doadrio. Threatened fishes of the world: *Cobitis vettonica*. *Croatian Journal of Fisheries* 72, 245-248.
- 2014 - Sousa-Santos C, Robalo J, Pereira A, I Doadrio. Threatened fishes of the world: *Achondrostoma salmantinum*. *Croatian Journal of Fisheries* 72, 241-244.
- 2014 - Sousa-Santos C, Robalo J, Pereira A, I Doadrio. Threatened fishes of the world: *Squalius malacitanus*. *Croatian Journal of Fisheries* 72:209-212.
- 2014 - Sousa-Santos C, Robalo J, Pereira A, I Doadrio. Threatened fishes of the world: *Squalius castellanus*. *Croatian Journal of Fisheries* 72:206-208.
- 2014 - Sousa-Santos C, Robalo J, Pereira A, I Doadrio. Threatened fishes of the world: *Cottus hispaniolensis*. *Croatian Journal of Fisheries* 72:202-205.
- 2014 - Sousa-Santos C, Robalo J, Pereira A, I Doadrio. Threatened fishes of the world: *Cottus aturi*. *Croatian Journal of Fisheries* 72:198-201.
- 2014 - Francisco, SM; Robalo, JI; Stefanni, S; Levy, A; Almada, VC. *Gaidropsarus* (Gadidae, Teleostei) of the North Atlantic: a brief phylogenetic review. *Journal of Fish Biology* 85, 473–487. doi:10.1111/jfb.12437
- 2014 - Geiger, M; Herder, F; Monaghan, M; Almada, V; Barbieri, R; Bariche, M; Berrebi, P; Bohlen, J; Casal-Lopez, M; Delmastro, G; Denys, G; Dettai, A; Doadrio, I; Kalogianni, E; Kärst, H; Kottelat, M; Kovacic, M; Laporte, M; Lorenzoni, M; Marcic, Z; Özulug, M; Perdices, A; Perea, S; Persat, H; Porcellotti, S; Puzzi, C; Robalo, J; Sanda, R; Schneider, M; Slechtova, V; Stumboudi, M; Walter, S; Freyhof, J. Spatial Heterogeneity in the Mediterranean Biodiversity Hotspot Affects Barcoding Accuracy of its Freshwater Fishes. *Molecular Ecology Resources*, doi: 10.1111/1755-0998.12257
- 2014 - Sousa-Santos, C.; Robalo, J.; Almada, V. Spawning behaviour of a threatened Iberian cyprinid and its implications for conservation. *acta ethologica*. DOI 10.1007/s10211-014-0185-5
- 2014 – Sousa-Santos, C.; Gante, H; Robalo, J; Cunha, PP; Martins, A; Arruda, M; Alves, MJ & Almada, VC. Evolutionary history and population genetics of a cyprinid fish (*Iberochondrostoma olisiponensis*) endangered by introgression from a more abundant relative. *Conservation Genetics*, 15:665–677. DOI 10.1007/s10592-014-0568-1.
- 2014 - Robalo, JI; Lima, CS; Francisco, SM; Almada, F; Bañon, R; Villegas-Ríos, D; Almada, VC. Phylogeography of the fivebeard rockling (*Ciliata mustela*, Linnaeus, 1758): a possible candidate fish to monitor climate change impact on genetic population structure. *Journal of Phylogenetics and Evolutionary Biology*.

- 2013 – Robalo JI, Sousa-Santos C, Coelho MM & Almada VC. Threatened fishes of the world: *Iberochondrostoma almakai* Coelho, Mesquita e Collares-Pereira, 2005 (Cyprinidae). *Croatian Journal of Fisheries*, 71, 147-148.
- 2013 - Cardoso S, Gonçalves D, Robalo JI, Almada VC, Canário AV & Oliveira RF. Efficient isolation of polymorphic microsatellites from high-throughput sequence data based on number of repeats. *Marine Genomics*, 11, 11-16.
- 2013 – Knutsen H, Jorde PE, Blanco Gonzalez E, Robalo R, Albretsen J & Almada V. Climate change and genetic structure of leading edge and rear end populations in a northwards shifting marine fish species, the corkwing wrasse (*Symphodus melops*). *PLoS ONE* 8(6): e67492.doi:10.1371 / journal.pone.0067492.
- 2013 - Robalo JI, Crespo AM, Castilho R, Francisco SM, Amorim MC & Almada VC. Are local extinctions and recolonizations continuing at the colder limits of marine fish distributions? *Halobatrachus didactylus* (Bloch & Schneider, 1801) a possible candidate. *Marine Biology*, Volume 160 (9), 2461-2467.
- 2013 - Almada VC, Toledo JF, Brito A, Levy A, Floeter SR, Robalo JI, Martins J & Almada FO. Complex origins of the Lusitania biogeographic province and northeastern Atlantic fishes. *Frontiers of Biogeography*, 5(1): 20-28.
- 2012 - Almada VC, Almada F, Francisco SM, Castilho R & Robalo, JI. Unexpected high genetic diversity at the extreme Northern geographic limit of *Taurulus bubalis* (Euphrasen, 1786). *PLoS One* 7(8): e44404. doi:10.1371/journal.pone.0044404
- 2012 - Almada VC., Francisco SM, Rosa I, Domingues V, Cabral H, Almada F, Henriques M & Robalo JI. A rapid and inexpensive molecular technique to discriminate the north-eastern Atlantic and Mediterranean *Atherina* species and its potential applications in ecology and larval identification. *Biologia* 67(5): 988-991. DOI: 10.2478/s11756-012-0087-9
- 2012 - Robalo JI, Castilho R, Francisco SM, Almada F, Knutsen H, Jorde PE, Pereira AM & Almada VC. Northern refugia and recent expansion in the North Sea: the case of the wrasse *Symphodus melops* (Linnaeus, 1758). *Ecology and Evolution*, 2 (1): 153-164. DOI: 10.1002/ece3.77
- 2012 - Pereira AM, Jonsson B, Johansson M, Robalo JI & Almada VC. Icelandic lampreys (*Petromyzon marinus*): where do they come from? *Ichthyological Research*, 59(1): 83-85.DOI: 10.1007/s10228-011-0248-9
- 2011 - Campos AR, Catry P, Ramos J & Robalo J. Competition among European Robins *Erithacus rubecula* in the winter quarters: sex is the best predictor of priority of access to experimental food resources. *Ornis Fennica* 88, 226–233.
- 2010 - Pereira AM, Robalo JI, Freyhof J, Maia C, Fonseca JP, Valente A & Almada VC. Phylogeographical analysis reveals multiple conservation units in brook lampreys *Lampetra planeri* of Portuguese streams. *J. Fish. Biol.* 77:361-371.

- 2010 - Sousa-Santos C, Robalo JI & Almada V. Threatened fishes of the world: *Squalius torgalensis* (Coelho, Bogutskaya, Rodrigues & Collares-Pereira, 1998) (Cyprinidae) Environmental Biology of Fishes. DOI 10.1007/s10641-009-9567-3
- 2009 - Sousa-Santos C, Robalo JI & Almada V. Threatened fishes of the world: *Squalius aradensis* Bogutskaya, Rodrigues & Collares-Pereira, 1998 (Cyprinidae). Environmental Biology of Fishes. DOI 10.1007/s10641-009-9550-z
- 2009 - Robalo, J.I., Sousa-Santos, C., Almada, V.C. "Threatened fishes of the world: *Iberochondrostoma lusitanicum* Collares-Pereira, 1980 (Cyprinidae)" Environmental Biology of Fishes. Online First. 10.1007/s10641-009-9510-7
- 2009 -Robalo, J. I., Sousa-Santos, C. , Cabral, H. , Castilho, R. & Almada, V.C. Genetic evidence fails to discriminate between *Macroramphosus gracilis* Lowe 1839 and *M. scolopax* Linnaeus 1758 in Portuguese waters. Marine Biology 156 (8): 1733-1737.
- 2009 - Almada, V. C., Robalo, J.I., Levy, A., Freyhof, J., Bernardi, G, Doadrio, I. Phylogenetic analysis of Peri-Mediterranean blennies of the genus *Salaria*: Molecular insights on the colonization of freshwaters. Mol. Phylogenet. Evol. 52(2): 424-431.
- 2009 - Almada, V.C., Pérez-Portela, R., Robalo, J.I., Brito, A. Phylogenetic relationships of *Gymnothorax bacalladoi* Böhlke and Brito (1987) a poorly known moray of the Macaronesian islands. Mol. Phylogenet. Evol. 52: 252–256.
- 2008 - Monteiro,J., Borges, R., Robalo, J., Almada, V., Henriques, S. & Gonçalves, E. Larval development of *Gobius xanthocephalus* with genetic validation of larval identification. J. Fish. Biol. 73, 123–138.
- 2008 - Robalo, J. I., Sousa-Santos, C., Doadrio, I. & Almada, V. C. *Achondrostoma occidentale* Robalo, Almada, Sousa-Santos, Moreira and Doadrio, 2005. Env. Biol. Fishes. Online First. 10.1007/s10641-008-9348-4.
- 2008 - Almada, F., Henriques, M., Levy, A., Pereira, A., Robalo, J., Almada, V.C. Reclassification of *Lepadogaster candollei* based on molecular and meristic evidence with a redefinition of the genus *Lepadogaster*. Mol. Phylogenet. Evol. 46: 1151-1156
- 2008 - Robalo, J.I., Doadrio, I., Valente, A., Almada, V.C. Insights on speciation patterns in the genus *Iberochondrostoma* (Cyprinidae): evidence from mitochondrial and nuclear data. Mol. Phylogenet.Evol. 46: 155–166.
- 2008- Almada, V.C., Pereira, A.M, Robalo, J.I., Fonseca, J.P., Levy, A., Maia, C., Valente, A. Mitochondrial DNA fails to reveal genetic structure in sea-lampreys along European shores. Mol. Phylogenet. Evol. 46: 391-396.
- 2007 - Vinyoles, D., Robalo, J.I., Sostoa, A. de, Almodôvar, A., Elvira, B., Nicola, G. G., Fernandez-Delgado, C., Santos, C. S., Doadrio, I.,Sardá-Palomera, F., Almada, V. C. Spread of the alien bleak *Alburnus alburnus* (Linnaeus, 1758) (Actinopterygii, Cyprinidae) in the Iberian peninsula: the role of reservoirs. Graellsia 63(1): 101-110.

- 2007- Robalo, J.I., Doadrio, I., Valente, A., Almada, V.C. Identification of ESUs in the Critically Endangered Portuguese minnow *Chondrostoma lusitanicum* Collares-Pereira 1980, based on a phylogeographical analysis. *Conserv. Gen.* 8(5): 1225-1229.
- 2007 - Robalo, J., Almada, V. C., Levy, A, Doadrio, I. Re-examination and phylogeny of the genus *Chondrostoma* based on mitochondrial and nuclear data and the definition of 5 new genera. *Mol. Phylogenet. Evol.* 42, 362-372.
- 2006 - Robalo, J., Sousa-Santos, C., Levy, A., Almada, V. C. Molecular insights on the taxonomic position of the paternal ancestor of the *Squalius alburnoides* hybridogenetic complex. *Mol. Phylogenet. Evol.* 39, 276-281.
- 2006 - Robalo, J., Santos, C., Almada, V.C., Doadrio, I. Paleobiogeography of two Iberian endemic cyprinid Fishes (*Chondrostoma arcasii*-*Chondrostoma macrolepidotus*) inferred from mitochondrial DNA sequence data. *J. Hered.* 97, 143-149.
- 2005 - Sousa-Santos, C., Robalo, J. I., Collares-Pereira, M.J., ALMADA, V. C. Heterozygous indels as useful tools in the reconstruction of DNA sequences and in the assessment of ploidy level and genomic constitution of hybrid organisms. *DNA Seq.* 16, 462-467.
- 2005 - Robalo, J., Almada, V., Santos, C., Moreira, M.I., Doadrio, I. New species of the genus *Chondrostoma* Agassiz, 1832 (Actynopterygii, Cyprinidae) from western Portugal. *Graellsia* 61, 19-29.
- 2005 - Robalo, J., Doadrio, I., Almada, V., Kottelat, M. *Chondrostoma oligolepis*, new replacement name for *Leuciscus macrolepidotus* Steindachner, 1866 (Teleostei: Cyprinidae). *Ichthyol. Explor. Freshwaters* 16, 47-48.
- 2003 - Almada, V.C., Robalo, J.I., Faria, C. First description of agonistic behaviour in *Chondrostoma polylepis* (Pisces: Cyprinidae) with notes on the behaviour of other *Chondrostoma* species. *Etología* 11, 9-13.
- 2003 - Carvalho, V., Robalo, J.I., Almada, V.C. A description of the reproductive behaviour of the endangered Iberian cyprinid *Chondrostoma lusitanicum* Collares-Pereira 1980 in captivity. *Etología* 10, 23-25.
- 2002 - Robalo, J., Almada, V.C. Some features of the behaviour of the marbled newt *Triturus marmoratus* (Latreille, 1800) in captivity. *Acta Ethologica* 4, 81-84.
- 2002 - Estabrook, G.F., Almada, V.C., Almada, F., Robalo, J. Analysis of conditional contingency using ACTUS2, with examples from studies of animal behaviour. *Acta Ethologica* 4, 73-80.

## Book Chapters

2014 – Francisco, SM; Robalo, JI; Levy, A; Almada, VC . In search of phylogeographic patterns in the northeastern Atlantic and adjacent seas. In: Evolutionary biology, Genome, Speciation, Coevolution and Origin of life, Pontarotti, P (Ed). Springer

2009- Almada, V.C., Robalo, J.I, Gonçalves, E.J., Levy, A., Patzner, R.A. Blennies in Temperate Seas. In: The Biology of Blennies. Patzner, R.A., Gonçalves, E., Hastings, P., Kapoor, B.G. (Eds.). Science Publishers, Enfield, NH.

2008- Almada, V.C., Robalo, J.I.. Phylogenetic analysis of alternative reproductive tactics. Problems and possibilities. In: Oliveira, R., Taborsky, M., Brockmann, H. J. (Eds) Alternative Reproductive Tactics. Cambridge: Cambridge University Press.