

## CV Summary

### Maria Clara Correia de Freitas Pessoa de Amorim

Date of birth: 23 June 1967

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#### 1 - ACADEMIC DEGREES

**1997** - Doctor of Philosophy (PhD) in Zoology - University of Aberdeen, (Scotland); **1994** - Master of Philosophy (MPhil) in Zoology - University of Leicester (England); **1991** - Licenciatura in Zoology - University of Lisbon.

#### 2 - PREVIOUS AND CURRENT SCIENTIFIC AND/OR PROFESSIONAL ACTIVITIES

##### Present position

2014- Principal Investigator - ISPA-Instituto Universitário

##### Previous Scientific positions

2011/2014: Post-Doc - ISPA; 2010/2011: Scientific Career Development Grant - ISPA; 2008/2010: Post-Doc - ISPA;

2004/2007: Post-Doc – ISPA; 1997/2001: Post-Doc - ISPA / Biology Department, Virginia Commonwealth University, (USA).

1992: Researcher, SOAEFD Marine Laboratory of Aberdeen, Scotland, U.K.

##### Academic positions

1997/1999 and 2000/2014: Assistant Professor at Lusófona University (Lisbon)

#### 3 - RESEARCH INTERESTS

Acoustic communication in fish: species- specific and individual discrimination, mate choice and the role of acoustic signals in reproductive isolation, mate choice, competition between males, transfer of information in dense social aggregations, chorusing behaviour and multi-modal communication. Conservation Biology: the impact of anthropogenic noise in the marine soundscape and in fish vocal communication. Animal Physiology: metabolic costs of sound production in fish, hearing and sound production (central and peripheral) mechanisms. Ontogeny of hearing and sound production.

#### 4 – SUPERVISING EXPERIENCE

Post-doc Joana Jordão (2008-2012); PhD: Laura Chabrolles (University Jean Monnet, France, 2014-2017) Eva-Lotta Blom (Gothenburg University, Sweden; 2013-2016); Raquel de Ornelas e Vasconcelos (University of Lisbon, Portugal; 2008-2012). MSc: Co/supervision Pedro Freitas (University of Lisbon, 2015), Maria Gouveia (University of Lisbon, 2015), Andreas Visentin (Padova University, Italy, 2014), Manuel Vieira (University of Lisbon, 2013), Joana Vicente (Algarve University, 2013), Co-supervision of Ricardo Pereira (University of Lisbon, 2012); Carlotta Conti (Trieste University, 2012), Stefania Rismondo (Trieste University, 2012), Ana Ricou Nunes da Ponte (Biomedical Science Institute of Abel Salazar, 2011), Marta Bolgan (Trieste University, 2011), Rita Carriço (Algarve University, 2011), Andreia Ramos (Biomedical Science Institute of Abel Salazar, 2010), José Miguel Simões (University of Lisbon, 2007), Raquel de Ornelas e Vasconcelos (University of Lisbon, 2006).

#### 5 - GRANT FUNDING

**2012-2014** - Coordinator of the FCT project PTDC/MAR/118767/2010 entitled: 'Role of acoustic signals in mate choice and male-male assessment in a strongly-vocal fish, *Halobatrachus didactylus*'

**2008-2012** - Coordinator of the FCT project PTDC/MAR/68868/2006 entitled 'Sound production in gobies of the genus *Pomatoschistus*: inter- and intraspecific communication'

**2006-2009** - Coordinator of the FCT project PDCT/MAR/58071/2004 entitled 'Acoustic communication in the Lusitanian toadfish, *Halobatrachus didactylus*'

#### 6 - OTHER ACTIVITIES

Organization of the XXII meeting of the International Bioacoustics Council (IBAC): [http://www.ibac.info/xxii\\_lisboa/index.html](http://www.ibac.info/xxii_lisboa/index.html);

Participation in the scientific committees of national and international conferences namely IBAC meetings and Congresses of the Portuguese Ethological Society. Referee of several international journals. Evaluator of international projects (e.g. NSF)

#### 7 - 10 RELEVANT PUBLICATIONS

1 - Pereira, R., S. Rismondo, M. Caiano, S.S. Pedroso, P.J. Fonseca & M.C.P. Amorim (2014). The role of agonistic sounds in male nest defence in the painted goby *Pomatoschistus pictus*. *Ethology*. 120: 53-63.

2 - Amorim, M.C.P., A. Nunes da Ponte; M. Caiano, S. S. Pedroso, R. Pereira & P. J. Fonseca (2013). Mate preference in the painted goby: the influence of visual and acoustic courtship. *J. Exp. Biol.* 216: 3996-4004.

3 - Pedroso, S.S., I. Barber, O. Svensson, P.J. Fonseca, M.C.P. Amorim (2013). Courtship sounds advertise species identity and male quality in sympatric *Pomatoschistus* spp. Gobies. *PloS One* 8: e64620.

4 - Amorim, M.C.P., S.S. Pedroso, M. Bolgan, J. M. Jordão, M. Caiano & P.J. Fonseca (2013). Painted gobies sing their quality out loud: acoustic rather than visual signals advertise male quality and contribute to mating success. *Functional Ecology*. 27: 289-298. doi: 10.1111/1365-2435.12032

5 - Vasconcelos R. O., R. Carriço, A. Ramos, T. Modesto, P. J. Fonseca & M. C. P. Amorim (2012) - Vocal behavior predicts reproductive success in a teleost fish. *Behavioral Ecology*. 23:375-383.

6 - Vasconcelos, R.O., P.J. Fonseca, M.C.P. Amorim & F. Ladich (2011). Representation of complex vocalizations in the Lusitanian toadfish auditory system: evidence of fine temporal, frequency and amplitude discrimination. *Proc. R. Soc. B* 278, 826-834.

doi:10.1098/rspb.2010.1376

- 7 - Vasconcelos, R.O., J.M. Simões, V.C. Almada, P.J. Fonseca & M.C.P. Amorim (2010) - Vocal behaviour during territorial intrusions in the Lusitanian toadfish: boatwhistles also function as territorial 'keep-out' signals. *Ethology*. 116: 155-165.
- 8 - Simões, J.M., I.G. Duarte, P.J. Fonseca, G.F. Turner & M.C.P. Amorim (2008). Courtship and agonistic sounds by the cichlid fish *Pseudotropheus zebra*. *J. Acoust. Soc. Am.* 124: 1332-1339.
- 9 - Simões, J.M., P.J. Fonseca, G.F. Turner & M.C.P. Amorim (2008). African cichlid *Pseudotropheus* spp. males moan to females during foreplay. *J. Fish Biol.* 72: 2689-2694
- 10 - Amorim, M.C.P., J.M. Simões, P.J. Fonseca & G.F. Turner (2008). Species differences in acoustic signals among five Lake Malawi cichlid species (*Pseudotropheus* spp.). *J. Fish Biol.* 72: 1355-1368.