

General Information

Full name: António Onofre Costa Miranda Soares
Place of birth: Ribeira Grande, Azores, Portugal
Nationality: Portuguese
ID: n. º 6978303, 2003/04/23, Ponta Delgada
Personal address: Rua do Outeiro Alto, 18
Farropo, 9545-202 Fenais da Luz
Phone number: + (351) 296 919 789
Institutional address: Department of Biology
University of the Azores
Rua da Mãe de Deus, 13-A
9501-801 Ponta Delgada Codex
Phone number: + (351) 296 650 464 / 000 (ext. 1464)
Fax number: + (351) 296 650 100
E.mail: onofre@uac.pt

Academic Degrees and Post-doc, Institution (dates by ascending order)

BSc	1983-1988	University of Coimbra, Coimbra, Portugal
MSc	1991-1995	University of the Azores, Ponta Delgada, Portugal
PhD	1995-2001	University of the Azores, Ponta Delgada, Portugal

Position, Institution, Since

2001-...	Auxiliary Professor of Ecology, University of the Azores, Ponta Delgada, Portugal
1991-2001	Assistant Professor of Ecology, University of the Azores, Ponta Delgada, Portugal
1997	Visiting Professor at the Université du Québec à Montréal, Montréal, Canada
1999	Lectures of "Evolutionary Ecology" on Biological Sciences BSc at Université du Québec à Montréal, Montréal, Canada
2010	Lectures on the Master o "Applied Ecology of Insects" at University of South Bohemia, Czech Republic.
2013	Lectures on the Master o "Ecology of Insects" at University of Bologna, Italy.
2003	MSc supervisor for 9 students
2004	PhD supervisor for 4 students
2008	Post-doc supervisor 2

Main research area

Life-history evolution of predators
Predator-prey interactions and the ecological basis of biological control of insects
Biology, ecology and behaviour of predator insects, particularly *Coccinellidae*
Lethal and sub-lethal effect of pesticides on biological control agents
Biological Invasions

Other areas of scientific interest

Evolution, ecology, entomology and insect community structure and dynamic

Participation and/or coordination (IP) of research projects

- (IP) of the project “Utilização de agentes de controlo biológico para o combate a populações de afídeos em plantas endémicas produzidas em viveiro. **PICA**; Projeto Investigação para combate a Afídeos em Viveiros Florestais, 2013-2016.
- (**National Coordinator**) of the project “European Information System for Alien Species”. COST Open Call proposal oc-2012-1-12550 - Final approval (TD1209), 2013-2017.
- Participation** on the project “ISLAND-BIODIV: Understanding biodiversity dynamics in tropical and subtropical islands as an aid to science based conservation action” FCT NETBIOME/0003/2011 NETBIOME 2011-2014, 62 909 euros.
- Participation** on the project do projeto de investigação “A térmita de madeira seca *Cryptotermes brevis* (Walker) nos Açores: Monitorização dos voos de Dispersão e prevenção da colonização”. Direção Regional da Ciência e Tecnologia (DRCT), 2009-2011.
- (IP) do projecto de investigação “PRO-BIO: *Profiling Reliable Organisms as Bioindicators: an integrated approach for island systems*” (Referência: 121/2009), aprovado e financiado pela Fundação Luso-Americana para o Desenvolvimento 2009-2011, no valor de 53 000 euros.
- (IP) do projecto de investigação “Evolução das histórias de vida nos coccinelídeos (Coleoptera: Coccinellidae)” (Referência: Proc 4.1.1 França), aprovado e financiado, ao abrigo do Programa PESSOA 2007-2008, pelo Gabinete de Relações Internacionais da Ciência e do Ensino Superior do Ministério da Ciência, Tecnologia e Ensino Superior, no valor de 4 750 euros.
- (IP) do projecto de investigação “*Consequence of selecting for a better performance on aphids in an intraguild predator species of aphidophagous ladybirds, Harmonia axyridis Pallas*” (Referência: 2005-17), aprovado e financiado pela *Matsumae International Foundation*. Investigação desenvolvida no Laboratório de Ecologia Animal, Departamento de Bio-produção da Faculdade de Agricultura da Universidade de Yamagata, Japão.
- Participation** do projecto de investigação “*Depredadores afidófagos en cultivos de alfalfa: efectos del hábitat de borde y de la presencia de otros depredadores del mismo gremio en su dispersión y control de áfidos*” (Referência: FONDECYT 1070412), aprovado e financiado pelo Fondo Nacional de Desarrollo Científico y Tecnológico (FONDECYT), do Ministério da Educação do Governo Chileno, no valor de 2 800 euros.
- IP do projecto de pós-doutoramento do Doutor José Alberto Pinheiro Marcelino (Referência: FRCT/2008/112/003), aprovado e financiado pela Direcção Regional da Ciência e Tecnologia.
- Participation e proponente** de uma tarefa no âmbito do projecto de investigação “Controlo Biológico e avaliação da dispersão de *Popillia japonica* (Coleoptera: Scarabaeidae) na ilha de S. Miguel” (Referência: M2.1.2/F/008/2007), aprovado e financiado pela Direcção Regional da Ciência e Tecnologia, no valor de 50 000 euros.
- Participation** do projecto de investigação: “*Safeguard Azorean Fragile Ecosystems: Análise de risco e espécies bioindicadoras*” (Referência: M2.1.2/I/008/2008), aprovado e financiado pela Direcção Regional da Ciência e Tecnologia, no valor de 25 000 euros.

Main Foreign Programs and Research Abroad

- University of Chile, Facultad de Ciencias Veterinarias y Pecuarias, November-December 2008 with Professor Audrey Grez financial support Fondo Nacional de Desarrollo Científico y Tecnológico (FONDECYT), Ministry of Education, Chile.
- University of Toulouse, École nationale de formation agronomique, 2008 Financial support Programa PESSOA 2007-2008, pelo Gabinete de Relações Internacionais da Ciência e do Ensino Superior do Ministério da Ciência, Tecnologia e Ensino Superior.
- University of Yamagata, Faculty of Agriculture, Department of Bio-production, Laboratory of Animal Ecology, Japan, July-November 2005 with Professor Hironori Yasuda. Post-doc, financial supported by *Matsumae International Foundation*.
- University of Québec in Montreal, Department of Biological Sciences, Montreal, Canada, 1997 (one month), 1998 (one month), 1999 (one month), 2000 (one month), with Professor Daniel Coderre.
- Polytechnic University of Valence, Department of Plant Protection, Section of Entomology, Valence, Spain, September-October 1994 (one month), with Professor Fernando Garcia-Mari.
- Polytechnic University of Valence, Department of Plant Protection, Section of Entomology, Valence, Spain, November-December 1993 (one month), with Professor Fernando Garcia-Mari. Fellowship of Fundação Calouste Gulbenkian.

Scientific Expeditions

- "Pico 2005", 6-15 June 2005, Pico Island, Portugal
- "Flores and Corvo 97", 24 June to 4 July 1998, Flores and Corvo Islands, Portugal
- "Madeira and Porto Santo 97", 22-29 September 1997, Madeira and Porto Santo Islands, Portugal
- "Pico da Vara 95", 7-3 July 1995, S. Miguel Island, Azores, Portugal
- "Terceira 94", 26 June to 3 July 1994, S. Jorge Island, Azores, Portugal
- "Faial 93", 26 June to 3 July 1993, Faial Island, Azores, Portugal
- "Pico 92", 14-18 September 1992, Pico Island, Azores, Portugal
- "S. Jorge/Topo 92", 27 June to 4 July 1992, S. Jorge Island, Azores, Portugal

Membership in working group

- Member of the "Biologist Association of Portugal", Portugal
- Member of the "European Countries of Biologist Association"
- Member of the "Centre for Research in Natural Resources" (CIRN), University of the Azores, Portugal
- Member of the "Centro de Investigação e Tecnologias Agrárias dos Açores" (CITA-A), University of the Azores, Portugal
- Member of the "American Association for the Advancement of Sciences", USA (until 2005)
- Member of the following Working Groups of "International Organisation for Biological and Integrated Control of Noxious Animals and Plants":

- Ecology of Aphidophaga
- Benefits and risks of exotic biological control agents
- Member of the "Biological Control Working Group", Department of Biology, University of the Azores, Portugal
- Member of the "Protection and Environmental Conservation Working Group", Department of Biology, University of the Azores, Portugal (until 2005)
- Member of the "Société d'entomologie du Québec", Canada
- Member of Ecological Association "Os Amigos dos Açores", Ponta Delgada, Portugal
- Member of "Sociedade Afonso Chaves", Ponta Delgada, Portugal

Organization of International Scientific Meetings

- 1st International Symposium on Biological Control in European Islands, 23-29 September 1991, Ponta Delgada, Portugal
- 7th International Symposium on Ecology of Aphidophaga, of the International Organization for Biological Control working group on Ecology of Aphidophaga, 31 August to 4 September, Bromont, Montreal, Canada
- 8th International Symposium on Ecology of Aphidophaga, of the International Organization for Biological Control working group on Ecology of Aphidophaga, 1-6 September, Ponta Delgada, Azores, Portugal
- 1st Symposium for the Students Working on Biological Control, Biological Control Working Group of the University of the Azores, 28 May 2003, Ponta Delgada, Azores, Portugal

Main Conferences Attended

- "Protecção Integrada em Macieira e Pereira", 19-20 December 1991, Lisbon Portugal
- "1^o Congresso de Citricultura", 20-22 January 1993, Silves, Portugal
- "5th International Symposium on Ecology of Aphidophaga", International Organisation for Biological and Integrated Control of Noxious Animals and Plants, Ecology of Aphidophaga Working Group, 6-11 September 1993, Colle-sur-Loup, France
- "Symposium Mediterranéen sur Mandarines", 5-11 de Mars 1995, S. Giuliano, Corsica, France
- "1st International Symposium on Biological Control in European Islands", 23-29 September 1995, Ponta Delgada, Azores, Portugal
- "VIII International Citrus Congress", 12-17 May 1996, Sun City Resort, South Africa
- "6th International Symposium on Ecology of Aphidophaga", International Organisation for Biological and Integrated Control of Noxious Animals and Plants, Ecology of Aphidophaga Working Group, 2-6 September 1996, Gembloux, Belgian
- "IV Encontro Nacional de Protecção Integrada", 3-4 October 1997, Angra do Heroísmo, Portugal
- "Regional Symposium for Applied Biological Control in Mediterranean Countries", 25-29 October 1998, Cairo, Egypt
- "7th International Symposium on Ecology of Aphidophaga", International Organisation for Biological and Integrated Control of Noxious Animals and Plants, Ecology of Aphidophaga Working Group, 31 August-4 September 1999, Bromont, Montréal, Canada
- "XII International Entomophagous Insects Workshop" 26-30 September 1999, Pacific Grove, Califórnia, USA

- "Islands and Archipelagos: biodiversity issues seen from the Atlantic", 14-16 May 2000, Ponta Delgada, Azores, Portugal.
- "2000 Entomological Society of America Annual Meeting", Entomological Society of America", 3-6 December 2000, Montreal, Canada
- "8th International Symposium on Ecology of Aphidophaga", International Organisation for Biological and Integrated Control of Noxious Animals and Plants, Ecology of Aphidophaga Working Group, 1-6 September 2002, Ponta Delgada, Azores, Portugal
- "IV Simpósio Fauna e Flora das Ilhas Atlânticas", 9-13 September 2002, Praia City, Santiago Island, Cape Verde
- "9th International Symposium on Ecology of Aphidophaga", International Organisation for Biological and Integrated Control of Noxious Animals and Plants, Ecology of Aphidophaga Working Group, 6-10 September 2004, České Budějovice, Czech Republic
- "1st International Symposium on Biological Control of Aphids and Coccids", 25-29 de September, 2005. Tsuruoka, Japão
- Workshop "Harmonia axyridis 2007", March, 13 Faculté des Sciences, Université Libre de Bruxelles, Belgium
- "10th International Symposium on Ecology of Aphidophaga", 5-10 September of 2007, Agricultural University of Athenas, Greece.
- "XXIII International Congress of Entomology", 6-12 July of 2008, International Convention Centre, Durban, South África.
- "IOBC/WPRS Harmonia Meeting", 6-10 September of 2009, IOBC/WPRS Study Group "Benefits and risks associated with exotic biological control agents", Engelberg, Switzerland.
- "11th International Symposium on Ecology of Aphidophaga", 19-24 September of 2010, Perugia, Italy.
- Workshop "Biotecnologia em Controlo Biológico", Ponta Delgada, Açores, 25-27 October, 2012. 4 oral presentation, 7 posters.
- "XV Congresso Ibérico de Entomologia", 2-5 September, 2012 Universidade dos Açores, Campus de Angra do Heroísmo, Ilha Terceira, Açores, Portugal. 2 oral presentations and 4 posters
- "Benefits and risks of exotic biological control agents", 2nd meeting of the IOBC/WPRS Working Group, 30 October-3 November, 2013. Hluboká, Republica Checa
- "12nd International Symposium of Ecology of Aphidophaga" IOBC/WPRS Working Group "Ecology of Aphidophaga", 9-13 September, 2013. Belgrado, Sérvia. One oral presentation and 4 posters
- "8th International Conference on Biological Invasions. Biological Invasions: From understanding to action NEOBIOTA 2014". 03-08 NOVEMBER 2014 Antalya-Turkey 2 oral presentations and 1 poster.

Awards and Lauds

2000 First price of the "2000 President's Prize" on the 2000 Annual Meeting of the Entomological Society of America in the topic "Behaviour and Ecology of Insects".

2000 Department of Biology of the Azores University

2001 PhD cum distinction and laude in Ecology, Department of Biology, University of the Azores

Book Editorship and Book Chapters

- Evans, E.W., **A.O. Soares** & H. Yasuda, 2012. Invasions by ladybugs, ladybirds, and other predatory beetles. *In*: Roy H.E., De Clercq P., Lawson Handley L.J., Sloggett J.J., Poland R.L., Wajnberg E. (eds.) *Invasive Alien Arthropod Predators and Parasitoids: an ecological approach*. Progress in Biological Control, volume 13, (series editor: Hokkanen H.M.T.). pp. 223-238. Springer. 275 pp.
- Soares A.O.** (2010). Coleoptera (Coccinellidae). *In*: 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.). *A list of the terrestrial and marine biota from the Azores*. pp. 225, Príncipe, Cascais, 432 pp.
- Soares. A. O.**, I. Borges, P.A.V. Borges, G. Labrie & E. Lucas, 2008. *Harmonia axyridis*: what will stop the invader? *In*: Roy, H. and Wajnberg, E. (eds.). *From Biological Control to Invasion: the Ladybird Harmonia axyridis as a Model Species*. Springer 127-145pp.
- Borges P.A.V., Vieira V., Dinis F., Jarroca S., Aguiar C., Amaral J., Aarvik L., Ashmole P., Ashmole M., Amorim R.A., André G., Argente C. M., Arraiol A., Cabrera A., Diaz S., Enghoff H., Gaspar C., Mendonça E.P., Gisbert H.M., Gonçalves P., Lopes D.H., Melo C., Mota J.A., Oliveira O., Oromí P., Pereira F., Pombo D.T., Quartau J.A., Ribeiro S.P., Rodrigues A.C., Santos A.M.C., Serrano A.R.M., Simões A.M.A., **Soares A.O.**, Sousa A.B., Vieira L., Vitorino A. & Wunderlich J. 2005. List of Arthropods (Arthropoda). *In*: Borges, P.A.V., Cunha, R., Gabriel, R., Martins, A.F., Silva, L. and Vieira, V. (eds.): *A list of the terrestrial fauna (Mollusc and Arthropoda) and flora (Bryophyta, Pteridophyta and Spermatophyta) from the Azores*. Direcção Regional do Ambiente and Universidade dos Açores, Horta, Angra do Heroísmo and Ponta Delgada. Pp. 163-221.
- A.O. Soares**, M.A. Ventura, V. Garcia & J.-L. Hemptinne (EDS) 2003. Proceedings of the 8th International Symposium on Ecology of Aphidophaga: Biology, Ecology and Behaviour of Aphidophagous Insects. Arquipélago. Life and Marine Sciences. Supplement 5: x + 112 pp. ISBN 972-8612-15-X.

List of publications**Articles in SCI journals**

- Sebastião, D., Borges, I. & **A.O. Soares**, 2015. Effect of temperature and prey in the biology of *Scymnus subvillosus*. *BioControl Fator de impacto (JRS[®] 2013): 2,253. Número de citações (Web of Science[®]): 0. DOI: 10.1007/s10526-014-9640-5*
- Borges, I., M. Nória, R. Camarinho, A.S. Rodrigues & **A.O. Soares**, 2015. Characterization of the alimentary canal of the aphidophagous ladybird, *Adalia bipunctata* (Coleoptera: Coccinellidae): an anatomical and histological approach. *Entomological Science*, 18:66-73. **Fator de impacto (JRS[®] 2013): 0,981. Número de citações (Web of Science[®]): 0**
- Marcelino J, R. Webber, L. Silva, P.V. Garcia, **A.O. Soares**, 2014. Expedient metrics to discriminate plant communities across gradients of anthropogenic disturbance. *Environmental Management*, 54(5): 1121-1130. **Fator de impacto (JRS[®] 2013): 1,648. Número de citações (Web of Science[®]): 0**
- Marcelino, J.A.P., L. Silva, P.V. Garcia, E. Weber & **A.O. Soares**, 2013. Partitioning of plant species (species spectra) across a gradient of anthropogenic influenced habitat types in the

- Azores. *Environmental Monitoring and Assessment*, 185: 6221-6233. **Fator de impacto (JRS[®]2013): 1,679. Número de citações (Web of Science[®]): 4**
- Borges, I., **A.O. Soares** & J.-L. Hemptinne, 2013. Contrasting population growth parameters of the aphidophagous *Scymnus nubilus* and the coccidophagous *Nephus reunioni*. *BioControl*, 58:351-357. DOI 10.1007/s10526-012-9490-y. **Fator de impacto (JRS[®]2013): 2,253. Número de citações (Web of Science[®]): 1**
- Grez, A.A., B. Viera & **A.O. Soares**, 2012. Biotic interactions between *Eriopis connexa* and *Hippodamia variegata* (Coleoptera: Coccinellidae), a native and an exotic species associated with alfalfa fields in Chile. *Entomologia Experimentalis et Applicata*, 142: 36-44. **Fator de impacto (JRS[®]2010): 1,669. Número de citações (Web of Science[®]): 9**
- Borges I., **A.O. Soares**, A. Magro & J-L Hemptinne, 2011. Prey availability in time and space is a driving force in life history evolution of predatory insects. *Evolutionary Ecology*, 25: 1307-1319. **Fator de impacto (JRS[®]2011): 2,453. Número de citações (Web of Science[®]): 4**
- Cabral S., **A.O. Soares** & P. Garcia. 2011. Voracity of *Coccinella undecimpunctata*: effects of insecticides when foraging in a prey/plant system. *Journal of Pest Science*, 84: 373-379. **Fator de impacto (JRS[®]2011): 1,509. Número de citações (Web of Science[®]): 10**
- Evans, E.W., **A.O. Soares** & H. Yasuda, 2011. Invasions by ladybugs, ladybirds, and other predatory beetles. *BioControl*, 56: 597-611. **Fator de impacto (JRS[®]2011): 1,927. Número de citações (Web of Science[®]): 16**
- Cabral S., **A.O. Soares** & P. Garcia 2009. Predation by *Coccinella undecimpunctata* L. (Coleoptera: Coccinellidae) on *Myzus persicae* Sulzer (Homoptera: Aphididae): effect of prey density. *Biological Control*, 50(1): 25-298. **Fator de impacto (JRS[®]2009): 1,621. Número de citações (Web of Science[®]): 15**
- Mota J. A., **A.O. Soares** & P.V. Garcia, 2008. Temperature-dependence for development of the whitefly predator *Clitostethus arcuatus* (Rossi). *BioControl*, 53(4): 603-613. **Fator de impacto (JRS[®]2008): 1,957. Número de citações (Web of Science[®]): 2**
- Nóia M., I. Borges & **A.O. Soares**, 2008 Intraguild predation between the aphidophagous ladybird beetles *Harmonia axyridis* and *Coccinella undecimpunctata* (Coleoptera: Coccinellidae): the role of intra- and extraguild prey densities. *Biological Control*, 46: 140-146. **Fator de impacto (JRS[®]2008): 1,805. Número de citações (Web of Science[®]): 22**
- Soares A.O.**, I. Borges, P.A.V. Borges, G. Labrie & E. Lucas, 2008. *Harmonia axyridis*: what will stop the invader? *BioControl*, 53(1): 127-145. **Fator de impacto (JRS[®]2008): 1,957. Número de citações (Web of Science[®]): 29**
- Cabral S., P.V. Garcia & **A.O. Soares**, 2008. Effects of pirimicarb, buprofezin and pymetrozine on survival, development and reproduction of *Coccinella undecimpunctata*. *Biocontrol Science and Technology*, 18 (3): 307-318. **Fator de impacto (JRS[®]2008): 0,874. Número de citações (Web of Science[®]): 13**
- Soares A.O.** & A. Serpa, 2007. Interference competition between ladybird beetle adults (Coleoptera: Coccinellidae): effects on the growth and reproductive capacity. *Population Ecology*, 49(1): 37-43. **Fator de impacto (JRS[®]2007): 1,314. Número de citações (Web of Science[®]): 19**
- Cabral S., **A. O. Soares**, R. Moura & P. Garcia, 2006. Suitability of *Aphis fabae*, *Myzus persicae* (Homoptera: Aphididae) and *Aleyrodes proletella* (Homoptera: Aleyrodidae) as prey for

Coccinella undecimpunctata (Coleoptera: Coccinellidae). *Biological Control*, 39: 434-440. **Fator de impacto (JRS[®]2006): 1,735. Número de citações (Web of Science[®]): 29**

Moura R., P. Garcia & **A.O. Soares**, 2006. Does pirimicarb affect the voracity of the euriphagous predator, *Coccinella undecimpunctata* L. (Coleoptera: Coccinellidae)? *Biological Control*, 38: 363-368. **Fator de impacto (JRS[®]2006): 1,735. Número de citações (Web of Science[®]): 21**

Borges I., **A.O. Soares** & J-L Hemptinne, 2006. Abundance and spatial distributions of aphids and scales select for different life histories in ladybeetle predators. *Journal of Applied Entomology*, 130(8): 461-464. **Fator de impacto (JRS[®]2006): 0,841. Número de citações (Web of Science[®]): 13**

Soares A.O., D. Coderre & H. Schanderl, 2005. Influence of prey quality on the fitness of two phenotypes of the adults of *Harmonia axyridis*. *Entomologia Experimentalis et Applicata*, 114: 227-232. **Fator de impacto (JRS[®]2005): 1,248. Número de citações (Web of Science[®]): 26**

Soares A.O., D. Coderre & H. Schanderl, 2004. Dietary self-selection behavior by the adults of the aphidophagous ladybeetle *Harmonia axyridis* (Coleoptera: Coccinellidae). *Journal of Animal Ecology*, 73: 478-486. **Fator de impacto (JRS[®]2004): 3,342. Número de citações (Web of Science[®]): 41**

Félix S. & **A.O. Soares**, 2004. Intraguild predation between the aphidophagous ladybird beetles *Harmonia axyridis* and *Coccinella undecimpunctata* (Coleoptera: Coccinellidae): the role of body weight. *European Journal of Entomology*, 101: 237-242. **Fator de impacto (JRS[®]2004): 0,657. Número de citações (Web of Science[®]): 36**

Soares A.O., D. Coderre & H. Schanderl, 2003. Effect of temperature and intraspecific allometry on predation by two phenotypes of *Harmonia axyridis* Pallas (Coleoptera: Coccinellidae). *Environmental Entomology*, 32(5): 939-944. **Fator de impacto (JRS[®]2003): 0,824. Número de citações (Web of Science[®]): 36**

Soares A.O., D. Coderre & H. Schanderl, 2001. Fitness of two phenotypes of *Harmonia axyridis* Pallas (Coleoptera: Coccinellidae). *European Journal of Entomology*, 98(3): 287-293. **Fator de impacto (JRS[®]2001): 0,802. Número de citações (Web of Science[®]): 35**