

Curriculum Vitae



PERSONAL INFORMATION

Name	Raquel Gonçalves Mendes
Address	Rua Professor Veiga Beirão, nº6, 1A, 1700-319, Lisboa
Nationality	Portuguese
Date of Birth	16/03/1985
Mobile	+351 965232955
E-mail	raquelgmendes@gmail.com
ORCID	http://orcid.org/0000-0002-7375-0369
ResearchGate profile	https://www.researchgate.net/profile/Raquel_Mendes?ev=hdr_xprf
Google Scholar citations	http://scholar.google.ca/citations?user=-fbdJT4AAAAJ&hl=en

ACADEMIC QUALIFICATIONS

Present – PhD student of the BIODIV Doctoral Programme, in the Faculty of Sciences, University of Lisbon.

2011 – Master in Biotechnology in Biological Control, University of Azores (final classification 16/20). Thesis dissertation entitled “Neuroptera communities of the Azores. Influence of the habitat and seasonality in the distribution, abundance and dominance”, with grade of 17. Pré-Bolonha degree (1 curricular year + 1 year internship).

2008 – Degree in Biology (Environmental and Evolution major), University of Azores (final classification 15/20). Scientific Internship (6 months) and thesis dissertation entitled “Fitness de *Chrysoperla agilis* alimentada com diferentes presas naturais” with grade of 17. Pré-Bolonha degree with 4 curricular years.

WORK EXPERIENCE

September 2014 to February 2015 – Research fellow in the project “Best-Rice-4-Life - Desenvolvimento de um sistema global de qualidade do arroz, recorrendo a ferramentas de análises de imagem, físico-químicas, sensoriais e quimiométricas para melhorar a qualidade da cultura e o valor de utilização” (RECI/AGR-TEC/0285/2012), at Instituto de Investigação Científica Tropical, IICT.

July 2012 to April 2014 – Research fellow in the project “CicadaCon - Testing congruence among patterns of variation in morphology, acoustics and genetic distance in the divergence of selected species of Mediterranean Cicadas (Insecta, Hemiptera)” (PTDC/BIA-BIC/115511/2009), at FCUL. Responsible for the acoustic and morphological analysis of the different cicada species, including geometric morphometric with resource to specialize software. Participation in the fieldwork (Portugal, Spain and Morocco) and in the writing of papers.

January 2010 to December 2011 – Research fellow (DRCTC M16/F/040/2009) in the Centro de Conservação de Protecção do Ambiente, Universidade dos Açores (CCPA – Uaç). I collaborated in the "Programa de Monitorização dos Factores Biológicos e Ecológicos do Projecto de Remodelação da Central Geotérmica do Pico Vermelho (CGPV)", within the component of “Terrestrial invertebrates”, which included field work sampling through several methods (e.g. pitfalls) and the screening and identification of terrestrial arthropods. I organized the XI International Symposium on Neuropterology and collaborated in teaching the Methods in Ecology 3rd year practical class of the degree in Biology (Environmental and Evolution Branch).

October 2008 to September 2009 – Professional Internship at TetraPi, Centro de Actividades Educativas, Lda.. I tutored classes of Natural Sciences and of Mathematics (until 9th grade) and I was an instructor of Fun Science, Ciência Divertida®.

COMPLEMENTARY EDUCATION AND WORKSHOPS

2013 – “R without fear: an R course in evolutionary ecology” - CBA’s Advanced Course (30h).

2013 – Online course “Analysis of Organismal Form” – University of Manchester (48h).

2013 - “Practical Course on Phylogenetics” – CBA’s Advanced Course (30h).

2012 - Course “A Prática da PCR” - We Value (24h).

2012 - “Curso de Iniciação: Identificação e Ecologia de Répteis” – Centro de Ciência Viva do Algarve.

2010 - Seminar and Workshop “International Year for Biodiversity – Azores 2010” – Azores University.

2007 - XIII Scientific Expedition to FLORES e CORVO 2007, Biology Department, Azores University.

PARTICIPATION IN SCIENTIFIC MEETINGS

2013 - Meeting “Biodiversidade e Conservação de Invertebrados em Portugal” (EBCI), Faculty of Sciences, University of Lisbon, July 2013.

2011 - XI International Symposium on Neuropterology, Ponta Delgada, Azores, June 2011.

2008 - 43rd European Marine Biology Symposium, Azores University, September 2008.

2008 - X International Symposium on Neuropterology, Piran, Slovenia, June 2008.

COMPUTER SKILLS

Good command of Microsoft Office [™] (Word [™], Excel [™] and PowerPoint [™]); statistical software (e.g. STATISTICA; R environment); acoustic analysis software (Avisoft SASLab Pro) and morphologic analysis software (Image J; Morpho J; tps; R). Basic knowledge in GIS software (DIVA-GIS; Quantum GIS).

TECHNICAL SKILLS

Experience in multivariate morphometric analysis and in morphometric geometric analysis of wing shape, including data acquisition, data treatment and statistical analysis (General Procrustes Superimposition; Canonical Variate Analysis, Principal Components Analysis, etc.)

Experience in acoustic analysis: sound record and frequency and temporal patterns analysis.

Experience in building protocols, laboratory essays and the planning and execution of fieldwork, namely in essays or fieldwork involving insect's ecology.

Experience in the handling and production of insects (e.g. Neuroptera, Coleoptera, aphids, etc.), as well as sampling (e.g. pitfalls; entomological net and aspirator) and identification of arthropods.

LANGUAGE SKILLS

Fluent in English both spoken and written. Conversational level in Spanish.

Portuguese mother tongue.

PUBLICATIONS AND COMMUNICATIONS

International Journals

Mendes R, Nunes VL, Quartau JA, Simões PC (2014) Patterns of acoustic and morphometric variation in species of genus *Tettigetta* (Hemiptera: Cicadidae): sympatric populations reveal unexpected differences. *European Journal of Entomology*, 111(3): 429-441. doi: 10.14411/eje.2014.054. (JCR impact factor 2013: 1.076).

Simões PC, Nunes VL, **Mendes R**, Seabra SG, Paulo OS, Quartau JA (2014) *Tettigetta josei* (Boulard 1982) (Hemiptera: Cicadoidea): first record in Spain, with notes on the distribution, genetic variation and behaviour of the species. *Biodiversity Data Journal*, doi: 10.3897/BDJ.2.e1045

Nunes VL, **Mendes R**, Marabuto E, Novais BM, Hertach T, Quartau JA, Seabra SG, Paulo OS, Simões PC (2013). Conflicting patterns of DNA barcoding and taxonomy in the cicada genus *Tettigetta* from southern Europe (Hemiptera: Cicadidae). *Molecular Ecology Resources*, 14: 27-38. doi: 10.1111/1755-0998.12158. (JCR impact factor 2012: 7.432).

Simões P, Nunes VL, **Mendes R**, Quartau JA (2013). First record of *Tettigetta mariae* Quartau & Boulard 1995 (Insecta: Hemiptera: Cicadoidea) in Spain. *Biodiversity Data Journal*, doi: 10.3897/BDJ.1.e978

Proceedings

Nunes VL, **Mendes R**, Quartau JA, Simões PC (2014). Current distribution raises concerns on the conservation of *Tettigetta mariae* (Quartau & Boulard, 1995) (Hemiptera: Cicadoidea) in Portugal. *Ecologi@ 7*: 50-57. ISSN: 1647-2829.

Mendes R, Ventura MA (2010). Fitness of *Chrysoperla agilis* (Neuroptera: Chrysopidae) fed with different natural preys. Proceedings of the X International Symposium on Neuropterology, 201-208. Maribor, Slovenia. ISBN: 978-961-6657-16-7.

Thesis dissertations

Mendes R (2011). Neuroptera communities of the Azores. Influence of the habitat and seasonality in the distribution, abundance and dominance. Master Thesis. Universidade dos Açores, Ponta Delgada, Portugal.

Mendes R (2008). Fitness de *Chrysoperla agilis* alimentada com diferentes presas naturais. Bachelor Degree Thesis. Universidade dos Açores, Ponta Delgada, Portugal.

Oral Communications

Simões PC, Nunes VL, **Mendes R**, Quartau JA, Seabra SG, Paulo OS (2013). Testing congruence among patterns of acoustic, morphological and genetic variation in genus *Tettigetta* from southern Europe (Hemiptera: Cicadidae): introductory results, 14th International Auchenorrhyncha Congress (IAC), Yangling.

Mendes R, Saraiva J, Teixeira T, Ventura MA (2011). Influence of habitat in the community composition of Azorean Neuroptera fauna. XI International Symposium on Neuropterology. Ponta Delgada, Açores.

Saraiva JP, **Mendes R**, Resendes R, Cunha RT, Ventura MA (2010). Seasonal biodiversity variation on the margins of a stream in S. Miguel island (Azores). XV Congresso da Associação Ibérica de Limnologia, Ponta Delgada, Açores.

Mendes R, Ventura MA (2008). Fitness of *Chrysoperla agilis* (Neuroptera: Chrysopidae) fed on different natural preys. X International Symposium on Neuropterology. Piran, Slovenia.

Posters

Nunes VL, **Mendes R**, Quartau JA, Seabra SG, Paulo OS, Simões PC (2013). Species recognition in two sympatric European cicadas of genus *Tettigetta* (Hemiptera, Cicadidae): is acoustic behaviour enough? XIV Congress of European Society for Evolutionary Biology, Lisboa.

Quartau JA, Nunes VL, **Mendes R**, Simões PC (2013). Micro-reserves for the conservation of one of the rarest cicadas in Portugal (Insecta: Hemiptera, Cicadoidea). Encontro sobre Biodiversidade e Conservação de Invertebrados em Portugal (EBCI), Lisboa.

Simões PC, **Mendes R**, Nunes VL, Seabra SG, Paulo OS, Quartau JA (2013). An approach to the conservation of some species of cicadas (Insecta, Hemiptera, Cicadoidea) in Portugal. Encontro sobre Biodiversidade e Conservação de Invertebrados em Portugal (EBCI), Lisboa.

Nunes VL, **Mendes R**, Marabuto E, Novais BM, Quartau JA, Seabra SG, Paulo OS, Simões PC (2012). Conflicting patterns of genetic and acoustic variation in the cicada genus *Tettigetta* from southern Europe (Hemiptera: Cicadidae)., VIII Encontro Nacional de Biologia Evolutiva, Oeiras.

Teixeira T, Saraiva J, **Mendes R**, Rosa JS, Ventura MA (2011). Lethal effects of three essential oils on *Myzus persicae* and its predator *Chrysoperla agilis* (Neu.: Chrysopidae). XI International Symposium on Neuropterology, Ponta Delgada, Açores.

Saraiva JP, Teixeira T, Rainha N, **Mendes R**, Baptista J, Lima E, Garcia P, Soares AO, Rosa JE (2010). Search for insecticidal activity of *Hypericum undulatum* Schousb. Ex Willd. and *Hypericum foliosum* Aiton against *Aphis fabae* and *Myzus persicae* (Homoptera: Aphididae). International Symposium FloraMac2010, Ponta Delgada, Açores.

Mendes R, Marques C, Teixeira T, Antunes P, Costa A (2008). Heavy Metal accumulation in *Patella candei* and *Littorina striata* in S. Miguel, Azores. 43rd European Marine Biology Symposium, Ponta Delgada, Açores.

Ventura MA, **Mendes R**, Resendes R, Sequeira J (2008). Up – to – date on the presence of Chrysopidae on Flores and Corvo Islands (Western Azorean Group). X International Symposium on Neuropterology, Piran, Slovenia.