

## SHORT CURRICULUM VITAE

### ALICE NUNES

Biology and Plant Ecology – PhD Candidate

#### 1. Personal Information

Name: Alice Maria Rodrigues Nunes

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#### 2. Current Status and Affiliation

PhD student (SFRH/BD/51407/2011) by the University of Lisbon and the University of Aveiro starting in 2011, conducting the project “Plant functional response to desertification and land degradation – contribution to restoration strategies”, under the supervision of Dr. Cristina Branquinho (cmbranquinho@fc.ul.pt), Dr. Otilia Correia (odgato@fc.ul.pt) and Dr. Francesco de Bello (fradebello@ctfc.es), at <sup>1</sup>CE3C - Centre for Ecology, Evolution and Environmental Changes, Faculdade de Ciências, Universidade de Lisboa and <sup>2</sup>CESAM – Centre for Environmental and Marine Studies, Universidade de Aveiro.

#### 3. Education

2010. Master in Biostatistics, Faculty of Sciences, University of Lisbon

2003. Degree in Biology, Faculty of Sciences, University of Lisbon.

#### 4. Research Interests

Plant Functional Ecology; Drylands ecology; Ecological indicators; Mediterranean ecosystems; Desertification and land degradation; Climatic gradients; Ecological restoration; Plant competition and facilitation; Global change research; Ecosystem services

#### 5. Participation in Research Projects

March 2015 – March 2016

***Adapt For Change – Improve the success of reforestation in semi-arid areas: adaptation to climate change scenario.*** Programme Adapt Sectorial projects.

[http://www.apambiente.pt/\\_zdata/adaPT/Setoriais/Projetos/AdaptForChange\\_PT.pdf](http://www.apambiente.pt/_zdata/adaPT/Setoriais/Projetos/AdaptForChange_PT.pdf)

Project leader: Dr. Cristina Branquinho

April 2011 – October 2013

***Modeling ecosystem structure and functional diversity as early-warning indicators of desertification and land degradation - from regional to local level.*** Funding Agency:

Fundação para a Ciência e Tecnologia, Portugal (PTDC/AAC-CLI/104913/2008). Project

leader: Dr. Cristina Branquinho

April – June 2011

***Lichens and vascular plant biodiversity in the surroundings of Neves Corvo mine (Alentejo, Portugal).*** Partnership between CBA-FCUL and Sociedade Mineira de Neves Corvo – Somincor. Project leader: Dr. Cristina Branquinho

March 2008 – February 2011

***Ecological management of restored areas in limestone quarries.*** Partnership between CBA- Centro de Biologia Ambiental, Faculdade de Ciências da Universidade de Lisboa and Secil-SA Cement Company. Project leader: Dr. Otília Correia.

January 2005 - December 2007

***Ecological management of rehabilitated areas (2nd phase).*** Partnership between CEBV- Center for Ecology and Plant Biology, Faculdade de Ciências da Universidade de Lisboa and Secil-SA Cement Company. Project leader: Dr. Otília Correia.

September 2004 – August 2007

***ECOQUARRY – Ecotechnology for environmental restoration of limestone quarries*** (LIFE04 ENV/ES/000195), LIFE project coordinated by University of Barcelona. Partners: universities and mining enterprises from Spain and Portugal (CEBV-FCUL and Secil-SA).

January 2002 – December 2004

***Ecological management of rehabilitated areas (1st phase).*** Partnership between CEBV- Center for Ecology and Plant Biology, Faculdade de Ciências da Universidade de Lisboa and Secil-SA Cement Company. Project leader: Dr. Otília Correia.

## 6. Publications

25 Oral communications in National and International Conferences

21 Posters in National and International Conferences

11 Articles in international journals listed in the Science Citation Index. 2011-2015.

### 6.1 Articles in international journals listed in the Science Citation Index

Matos, P., Pinho, P., Aragón, G., Martínez, I., Nunes, A., Soares, A. M. V. M., Branquinho, C. (2015). Lichen traits responding to aridity. *Journal of Ecology* 103: 451-458.

Ramos, A, Pereira, MJ, Soares, A, Rosário, L., Matos, P, Nunes, A, Branquinho, C, Pinho, P (2015). Seasonal patterns of Mediterranean evergreen woodlands (Montado) are explained by long-term precipitation. *Agricultural and Forest Meteorology* 202: 44-50.

Nunes A., Tápia S., Pinho P., Correia O., Branquinho C. (2014). Advantages of the point-intercept method for evaluating functional diversity in semi-arid areas. *iForest* (early view): e1-e9 [online 2014-10-31] URL:

<http://www.sisef.it/iforest/contents/?id=ifor1261-007>

Nunes A., Oliveira G., Cabral M.S., Branquinho C., Correia O. (2014). Beneficial effect of pine thinning in mixed plantations through changes in the understory functional composition. *Ecological Engineering* 70: 387–396.

Oliveira, G. Clemente, A., Nunes, A. & O. Correia (2014). Suitability and limitations of native species for seed mixtures to revegetate degraded areas. *Applied Vegetation Science* 17: 726-736.

Príncipe, A., Nunes, A., Pinho, P., Rosário, L., Correia, O. & C. Branquinho (2014). Modeling the long-term natural regeneration potential of woodlands in semi-arid regions to guide restoration efforts. *European Journal of Forest Research* (DOI 10.1007/s10342-014-0787-5).

- Osório H.C., Zé-Zé L., Amaro F., Nunes A., Alves M.A. (2013). Sympatric occurrence of *Culex pipiens* (Diptera, Culicidae) biotypes *pipiens*, *molestus* and their hybrids in Portugal, Western Europe: feeding patterns and habitat determinants. *Medical and Veterinary Entomology*, doi: 10.1111/mve.12020.
- Oliveira G., Clemente A., Nunes A. & O. Correia (2013). Limitations to recruitment of native species in hydroseeding mixtures. *Ecological Engineering* 57: 18– 26.
- Oliveira G., Nunes A., Clemente A. & O. Correia (2012). Testing Germination of Species for Hydroseeding Degraded Mediterranean Areas. *Restoration Ecology* 20 (5): 623–630.
- Meira J., Clemente A., Oliveira O., Nunes A. & Correia O. (2011). Post-fire and post-quarry rehabilitation succession in mediterranean ecosystems: implications for ecological restoration. *Ecological Engineering* 37 (8): 1132-1139.
- Oliveira G., Nunes A., Clemente, A. & O. Correia (2011). Effect of substrate amendments on survival and growth of Mediterranean shrubs in a revegetated quarry: a eight-year study. *Ecological Engineering* 37 (2): 255-259.

## 6.2 Other publications

- Branquinho, C., Nunes A., Santos-Reis M., Correia, O., Matos,P., Pinho, P., Munzi, S., Tápia S. (2013). Guia de Campo da Região de Neves Corvo. Uma Mina de Biodiversidade. Coordenação geral, Gama H. & Branquinho C. Lundin mining, Somincor, FCUL.pp 196. ISBN 978-972-97081-2-1
- Nunes A., Mexia T., Clemente A., Correia A.I. & Correia O. (2009). Caracterização da vegetação de uma pedreira restaurada face aos locais de referência (Serra da Arrábida, Portugal). *Portugaliae Acta Biol.*, Vol.23 (1-4), pp. 243-276.
- Correia O., Oliveira G., Clemente A. & Nunes A. (2008). Restauración de canteras calcáreas em Portugal. Cuadernos de Arquitectura del Paisaje. Vol VIII. Ediciones Horticultura S.L. pp: 106-109.
- Werner C., Loichot A., Oliveira G., Nunes A., Clemente A.S. & Correia O. (2005). Ecological restoration of limestone quarries: a case study. *Proceedings of the 1st international Forum on ecological construction of Beijing (FECB2005)*, Beijing, China. pp. 152-163.
- Nunes A., Brugnolli E., Máguas C. & Correia O. (2004). Efeito da deposição de poeiras calcárias na absorvância foliar de espécies mediterrânicas. *Revista de Biologia*, Vol 22, N<sup>o</sup>s 1-4, pp. 143-151.

## 7. Scientific Training

- Short term scientific mission: *Measurement of soil water balance with fast track Isotope field methods along a desertification gradient in the SE of Portugal*. Institut für Hydrologie, Freiburg(DE). COST Action: ES1104, May 2013.
- Trait course: The use of trait based approaches in community ecology and stress ecology, Mod I - Key concepts and terrestrial ecosystems. University of Coimbra, September 2013.
- Ecophysiology techniques workshop – PEPG British Ecological Society, September 2012.
- Scientific Writing course, Universidade de Aveiro, July 2012.
- Ecosystem services provided by wetlands: Anthropogenic impacts and Environmental chemistry. Advanced Workshop. Universidade de Aveiro, June 2011.
- Bioengineering Techniques course – Slope stabilization and Stream bank restoration. Portugal, March 2011.

Geographic Information Systems Applied to the Earth Sciences. Universidade de Lisboa, February 2011.

Instrumentation for Monitoring and Data Acquisition in Ecophysiology Course. Oeiras, May 2004.

Botanic course – Mediterranean Flora and Vegetation. Lisbon University, April 2003.

Post-graduate training: *Effects of Dust Deposition from a Cement Mill on Leaf Absorbance of Mediterranean Plants*. Istituto per L'Agroselvicoltura, Italy, April 2002.

## **8. Teaching Experience**

May 2015: Trainer at the Training School 6 - Iberian Training School on Restoration in Mediterranean Drylands, 13 – 21 May 2015, University of Lisbon (PT) and Autonomous University of Madrid (ES). Nunes A., Oliveira G., Branquinho C. & O. Correia Adaptive management in restoration: beneficial effect of pine thinning.

September 2014: Teaching of 1h lecture for Plant Ecology discipline within the Biology course at Faculdade de Ciências da Universidade de Lisboa, entitled “Plant Functional diversity in response to desertification and land degradation in semiarid woodland areas”.

May 2014: Trainer at the Training School 4 - Indicators of Desertification: early warning signs, 19 – 23 May 2014, Faculdade de Ciências, Universidade de Lisboa. Nunes A., Batista M., Tápia S., Pinho P., Matos P., De Bello F., Correia O. & C. Branquinho (2014). Methods and results of plant functional diversity.

September 2008: Collaboration in the Technical Course: Ecological Restoration of Quarries. Centre for Environmental Biology, Faculty of Sciences, Lisbon University; <http://cba.fc.ul.pt>

July 2006 onwards: Seasonal Guidance of Botanical tours – Biologia no Verão (Agência Ciência Viva); <http://www.cienciaviva.pt/veraocv/biologia>