

Teresa Afonso do Paço

1. ACADEMIC DEGREES

PhD, Instituto Superior de Agronomia, Technical University of Lisbon (ISA/UTL) – 2004
 Doctoral preparation: 4 disciplines, Master Irrigation Eng. Agric. Resources, ISA/UTL, 1997
 Tropical Agronomy, ISA/UTL, 1992
 Agronomy graduation, ISA/UTL, 1991

2. PRESENT SITUATION

Since February 2015 Instituto Superior de Agronomia, University of Lisbon, Portugal
 Researcher – post-doc fellowship FCT (SFRH/BPD/100718/2014)
 LEAF – Linking Landscape, Environment, Agriculture and Food
 Research Group II - Soil, Water and Waste Nexus
www.isa.utl.pt/home/node/3305

3. PUBLICATIONS

Papers in international scientific periodicals with referees (ISI)

Pôças I, **Paço** TA, Paredes P, Cunha M, Pereira LS (2015). Estimation of actual crop coefficients using remotely sensed vegetation indices and soil water balance modelled data. *Remote Sensing* (accepted).

Paço TA, Pôças I, Cunha M, Silvestre JC, Santos FL, Paredes P, Pereira LS (2014). Evapotranspiration and crop coefficients for a super intensive olive orchard. An application of SIMDualKc and METRIC models using ground and satellite observations. *Journal of Hydrology* 519:2067–2080.

Pôças I, **Paço** TA, Cunha M, Andrade JA, Silvestre JC, Sousa A, Santos FL, Pereira LS, Allen RG (2014). Satellite based evapotranspiration of a super-intensive olive orchard: application of METRIC algorithm. Special Issue Irrigated agriculture: water resources management for a sustainable environment in Biosystems Engineering. *Biosystems Engineering* 1:13.

Siqueira JM, **Paço** TA, Silvestre JC, Santos FL, Falcão AO, Pereira LS (2014). Generating Fuzzy Rules by learning from olive tree transpiration measurement - an algorithm to automatize Granier sap flow data analysis. *Computers and Electronics in Agriculture* 101:1-10 (doi: 10.1016/j.compag.2013.11.013).

Zhang B, Liu Y, Xu D, Zhao N, Lei B, Rosa RD, Paredes P, **Paço** TA, Pereira LS (2013). The dual crop coefficient approach to estimate and partitioning evapotranspiration of the winter wheat - summer maize crop sequence in North China Plain. *Irrigation Science* 31:1303-1316 (doi: 10.1007/s00271-013-0405-1).

Paço TA, Ferreira MI, Pacheco CA (2013). Scheduling peach orchard irrigation in water stress conditions: use of relative transpiration and predawn leaf water potential. *Fruits* 68:147-158 (doi: 10.1051/fruits/2013061).

Pinto CA, David JS, Cochard H, Caldeira MC, Henriques MO, Quilhó T, **Paço** TA, Pereira JS, David TS (2012). Drought-induced embolism in current-year shoots of two Mediterranean evergreen oaks. *Forest Ecology and Management* 285:1–10 (doi: 10.1016/j.foreco.2012.08.005).

Paço TA, Ferreira MI, Rosa R, Paredes P, Rodrigues G, Conceição N Pacheco C, Pereira LS (2012). The dual crop coefficient approach using a density factor to simulate the evapotranspiration of a peach orchard: SIMDualKc model vs. eddy covariance measurements. *Irrigation Science*, 30:115-126 (doi: 10.1007/s00271-011-0267-3).

Paço TA, David TS, Henriques MO, Pereira JS, Valente F, Banza J, Pereira FL, Pinto C, David JS (2009). Evapotranspiration from a Mediterranean evergreen oak savannah: the role of trees and pasture. *Journal of Hydrology*, 369: 98-106 (doi:10.1016/j.jhydrol.2009.02.011).

González-Altozano P, Pavel EW, Oncins JA, Doltra J, Cohen M, **Paço** TA, Massai R, Castel JR (2008). Comparative assessment of five methods of measuring sap flow in peach trees. *Agricultural Water Management*, 95: 503-515 (doi:10.1016/j.agwat.2007.11.008).

Pereira JS, Mateus JA, Aires LM, Pita G, Pio C, David JS, Andrade V, Banza J, David TS, **Paço** TA, Rodrigues A (2007). Net ecosystem carbon exchange in three contrasting Mediterranean ecosystems – the effect of drought. *Biogeosciences*, 4: 791-802 (doi:10.5194/bg-4-791-2007).

Paço TA, Ferreira MI, Conceição N (2006). Peach orchard evapotranspiration in a sandy soil: comparison between eddy covariance measurements and estimates by the FAO 56 approach. *Agricultural Water Management* 85 (3): 305-313 (doi:10.1016/j.agwat.2006.05.014).

Papers in Conference Proceedings (ISI)

Andrade JA, Santos FL, Correia M, **Paço** TA (2014). Effects of Irrigation and Tree Spacing on Soil and Air Temperature Profiles of Olive Orchards. *Acta Hort.* (ISHS) 1057:443-450.

Mota MM, Nogueira AM, Guimarães A, Gonzalez LF, **Paço** TA, Correia MM, Coelho R, Vaz M, Santos FL, Alegre AH, Vasconcelos P, Ferreira-Dias S (2014). Impact of Irrigation in Production and Oil Properties in Intensive and Hedgerow Olive Groves. *Acta Hort.* (ISHS) 1038: 553-558.

Paço TA, Malheiro AC, Conceição NS, Fernandes-Silva AA, Silvestre JC, Ferreira MI (2011). Vineyard evapotranspiration measurement in non-flat terrain conditions by the eddy covariance technique – Douro Wine Region, Portugal *Acta Hort.* (ISHS) 889: 181-188.

Malheiro AC, Gonçalves IN, Fernandes-Silva AA, Silvestre JC, Conceição NS, **Paço** TA, Ferreira MI (2011). Relationships between Relative Transpiration of Grapevines and Plant and Soil Water Status in Portugal's Douro Wine Region. *Acta Hort.* (ISHS) 922: 261-267.

Paço TA, Rosa RD, Paredes P, Rodrigues GC, Conceição N, Ferreira MI, Pereira LS (2011). The dual crop coefficient approach: testing the SIMDualKc model with peach orchard evapotranspiration eddy covariance measurements. *Acta Hort.* (ISHS) 889:181-188.

Conceição, N., **Paço**, T.A., Silva, A.L., Ferreira, M.I. (2008). Crop coefficients for a pear orchard (*Pyrus communis* L.) obtained using eddy covariance. *Acta Hort.* (ISHS) 792:187-192.

Silva RM, **Paço** TA, Ferreira MI, Oliveira M (2008). Transpiration of a kiwifruit orchard estimated using the Granier sap flow method calibrated under field conditions. *Acta Hort.* (ISHS) 792:593-600).

Paço TA, Conceição N, Ferreira MI (2004). Measurements and estimates of peach orchard evapotranspiration in Mediterranean conditions. *Acta Hort.* (ISHS), 664:505-512.

Ferreira MI, **Paço** TA, Silvestre J (2004). Combining techniques to study evapotranspiration in woody crops: application to small areas – two case studies. *Acta Hort.* (ISHS), 664:225-232.

Isbérie C, Cabibel B, Valancogne C, **Paço** TA (2004). Using information from sap flow measurements to improve soil adaptability to drip irrigation in orchards. *Acta Hort.* (ISHS), 664: 333-340.

Garcia A, André RGB, Ferreira MI, do **Paço** T (2000). Diurnal and seasonal variations of CWSI and non-water-stressed baseline with nectarine trees. *Acta Hort.* (ISHS), 537: 415-421.

Massai R, Remorini D, Ferreira MI, **Paço** TA (2000). Sap flow in peach trees during water stress and recovery in two environmental conditions. *Acta Hort.* (ISHS), 537: 351-358.

Thesis

Paço MTGA (2004). Modelação da evapotranspiração em cobertos descontínuos - Programação da rega em pomar de pessegueiro. Ph D thesis, Technical University of Lisbon, Instituto Superior de Agronomia, Lisbon, 227 p.

Book chapters

Cunha JE, Rufino IA, Valente F, Silva BB, **Paço** TA (2011). Estimativa da evapotranspiração através de sensoriamento remoto. In: *Recursos hídricos para a convivência com o Semiárido: abordagens sobre o semiárido por pesquisadores no Brasil, Portugal, Cabo Verde, Estados Unidos e Argentina*. Ed. CO Galvão, JA Cirilo, JSP Cabral, M Medeiros, ABRH, Porto Alegre, p. 235-263.

De Melo-Abreu JP, **Paço** TA, Ribeiro AC, Barba NG, Cordeiro AM, Neves A, Abreu I, Oliveira H, Oliveira C, Mexia A (2011). Impactos das alterações ambientais previstas na agricultura portuguesa. In: *Engenharia dos Biosistemas. Cem temas de investigação no centenário do ISA*. Ed. LS Pereira, A Varennes, C. Oliveira, Ferreira-Dias S. Ed. Colibri e CEER, p. 3-6.

Ferreira MI, David T, Silvestre J, **Paço** T, Silva R, Conceição N (2011). Uso da água e coeficientes culturais e de stress hídrico em floresta, pomares e vinha. In: *Engenharia dos Biosistemas. Cem temas de investigação no centenário do ISA*. Ed. LS Pereira, A Varennes, C.Oliveira, S. Ferreira-Dias. Ed. Colibri e CEER, p. 73-76.

Paço TA, Santos FL, Siqueira J (2011). Modelação das necessidades hídricas de olivais regados utilizando variáveis e parâmetros biofísicos e detecção remota. In: *Engenharia dos Biosistemas. Cem temas de investigação no centenário do ISA*. Ed. LS Pereira, A Varennes, C.Oliveira, S. Ferreira-Dias. Ed. Colibri e CEER, p. 77-80.

Paço TA, Ferreira MI, Conceição N (2011). Medição e modelação empírica da evapotranspiração em pomar de pessegueiro. In: *Engenharia dos Biosistemas. Cem temas de investigação no centenário do ISA*. Ed. LS Pereira, A Varennes, C.Oliveira, S. Ferreira-Dias. Ed. Colibri e CEER, p. 89-92.

Paço TA, Fradinho MJ (2010). The role of extensive grazing systems in southern Europe horse production. In: *Pastures: Dynamics, Economics and Management*. Ed. Natálie T. Procházka. Nova Science Publishers, Inc., New York, USA, p. 131-150.

Ferreira MI, **Paço** TA, Silvestre J, Silva RM (2008). Evapotranspiration estimates and water stress indicators for irrigation scheduling in woody plants. In: *Agricultural Water Management Research Trends*. Ed. Magnus L. Sorensen. Nova Science Publishers, Inc., New York, USA. (https://www.novapublishers.com/catalog/product_info.php?products_id=6658)

Abreu JM, **Paço** MTA, Acamovic T, Murray I (1992). NIR calibration for nutritional value of a diverse set of Portuguese forage crops. In: *Making Light Work - Advances in Near Infrared Spectroscopy*. Ed. by I. Murray and I. A. Cowe. VCH Publishers, New York, USA, p. 309-313.

Publications in Conference Proceedings with referees

Paço TA, Cameira MR, Branquinho C, Carvalho R, Luís L, Espírito-Santo D, Valente F, Brandão C, Soares AL, Anico A, Abreu F, Pereira LS (2014). Innovative green roofs for Southern Europe: biocrusts and native species with low water use. *40th IAHS World Congress on Housing, Sustainable Housing Construction*, 16-19 Dez, Funchal, CD-ROM.

Pôças I, **Paço** TA, Cunha M, Silvestre J, Santos FL, Pereira LS (2013). Crop coefficients from METRIC and SIMDualKc models for discontinuous woody crops. A remote sensing application to a super intensive olive grove, in: Lamaddalena, N., Todorovic, M., Pereira, L.S. (Eds.), *1st CIGR Inter-Regional Conference on Land and Water Challenges. Water, environment and agriculture: challenges for sustainable development*. CIHEAM - IAMB, 10-14 September, Bari, Italy.

Conceição N, **Paço** TA, Silva AL, Ferreira MI (2005). Determinação de coeficientes culturais em pomar de pêra-rocha na região do Oeste. *1º Congresso de Rega e Drenagem*, COTR, Beja, 5-7 December.

Paço TA, Ferreira MI (2004). Medição da evapotranspiração em cobertos descontínuos – necessidades de rega em pomar de pessegueiro. *7º Congresso da Água*, Laboratório Nacional de Engenharia Civil (LNEC), APRH, Lisbon, 8-12 March.

Ferreira MI, Silva RM, **Paço** TA (2004). Medição da evapotranspiração em cobertos descontínuos: montado de sobro na região de Lisboa. *7º Congresso da Água*, Laboratório Nacional de Engenharia Civil (LNEC), Lisbon, 8-12 March.

Silva RM, Ferreira MI, **Paço** TA, Veloso A, Oliveira M (2004). Determinação das necessidades de rega em kiwi na região do Entre Douro e Minho. *7º Congresso da Água*, Laboratório Nacional de Engenharia Civil (LNEC), Lisbon, 8-12 March.

Massai R, Remorini D, Ferreira MI, **Paço** TA (1999). Stress idrico e recupero nel pesco in diverse condizioni colturali. Atti del Convegno Nazionale: *“l'agrometeorologia per il monitoraggio dei consumi idrici”*. Sassari, 3-4 November, 229-237.

Papers in national scientific periodicals with referees

Santos FL, Correia MM, Coelho RR, Sousa A, Paço TA, Pereira LS (2013). Efeitos da Rega e do Regime Hídrico em Olival Super Intensivo no Alentejo. *Revista da Sociedade de Ciências Agrárias de Portugal*, 36:206-219.

Ferreira MI, David T, Silvestre J, do **Paço** T, Silva R (2005). Coeficientes culturais e coeficientes de stress hídrico em cobertos lenhosos: resultados de 10 anos de experimentação em Portugal. Special number of *Revista da Sociedade de Ciências Agrárias de Portugal*, 314: 17-33.

Conceição N, **Paço** TA, Ferreira MI (2005). Medição e estimativa da evaporação do solo em condições de rega localizada. Special number of *Revista da Sociedade de Ciências Agrárias de Portugal*, 314: 77-92.

Other publications

Cunha J, **Paço** TA, Silva FC, Pereira JS, David JS, Rufino I, Galvão C, Valente F (2015). Evaluation of sensible heat flux from remote sense and eddy correlation data for two Portuguese cork-oak forests. *Geophysical Research Abstracts*, Vol. 17, EGU2015, EGU General Assembly, Viena (accepted).

Santos F, Correia MM, Coelho R, Vaz M, **Paço** T, Sousa A (2014). Predicted and Seasonal Dynamics of Hedgerow Olive Orchard Water use in Response to Applied Water. Proc. *3rd International Conference on Ecohydrology, Soil and Climate Change*, EcoHCC'14 - Abstracts Book, 9-12 Set. Polytechnic Institute of Tomar, Natural Hazards Research Center, NHRC.ipt, Tomar, Portugal (abstract).

Valverde P, Correia M, **Paço** TA, Santos FL, Coelho R, Vaz M, Sousa A (2014). Predicted and seasonal dynamics of intensive and hedgerow olive orchard water use in response to applied water, environment and drip emitter layout. *AgEng 2014 – International Conference of Agricultural Engineering*, 6-10 Jul, Zurich (abstract).

Pôças I, Nogueira A, **Paço** TA, Sousa A, Valente F, Andrade JA, Santos FL, Pereira LS, Allen RG (2013). METRIC model for the estimation and mapping of evapotranspiration in a super intensive olive orchard in Southern Portugal. *Geophysical Research Abstracts* Vol. 15, EGU2013. European Geosciences Union General Assembly 2013, Session SSS10.9 - The use of remote sensing for estimating crop water requirements and soil water status, 7-12 Abr, Vienna.

Andrade JA, Santos FL, Correia M, **Paço** TA (2012). Effects of Irrigation and Tree Spacing on Soil and Air Temperature Profiles of Olive Orchards. VIIth International Symposium on Olive Growing, 25-29 September, San Juan, Argentina (poster abstract).

Cameira MR, Pereira AC, **Paço** TA (2012). Modelação e avaliação do risco ambiental da fertirrega para a sustentabilidade do olival intensivo. *V Congresso Ibérico da Ciência do Solo*, 6-10 Sep, Angra do Heroísmo, Azores, PT (abstract).

Santos FL, Coelho RR, Vaz M, Andrade JA, Correia MM, **Paço** TA, Pereira LS (2012). Efeitos da Rega e do Regime Hídrico em Olival Super Intensivo no Alentejo. *V Congresso Ibérico da Ciência do Solo*, 6-10 Sep, Angra do Heroísmo, Azores, PT (abstract).

Nogueira AM, **Paço** TA, Silvestre JC, Mota M, Gonzalez LF, Santos FL, Pereira LS (2012). Pegada Hídrica de um olival super-intensivo sob clima mediterrânico, utilizando medições de campo e detecção remota. VI Congresso Nacional de Olivicultura, 15-17 Nov, Mirandela, PT (poster abstract).

Coelho R, Vaz M, Santos FL, Sousa A, Rato AE, Shahidian S, **Paço** TA, Mota M, Nogueira AM (2012). Resposta do olival intensivo e super-intensivo a dois regimes de rega: parâmetros fisiológicos, produção e qualidade. VI Congresso Nacional de Olivicultura, 15-17 Nov, Mirandela, PT (poster abstract).

Nogueira AM, **Paço** TA, Silvestre JC, Gonzalez LF, Santos FL, Pereira LS (2012). Water footprint of a super-intensive olive grove under Mediterranean climate using ground-based evapotranspiration measurements and remote sensing. *Geophysical Research Abstracts*, Vol. 14, EGU2012-11301(abstract).

Pereira JS, David JS, **Paço** TA, David TS, Mateus JA, Pita PG, Banza J (2008). Effects of drought on ecosystem carbon and water fluxes in an evergreen Mediterranean oak woodland. *Geophysical Research Abstracts*, vol. 10, EGU2008-A-11438, (abstract).

David TS, **Paço** TA, Henriques MO, Pereira JS, Valente F, Kurz-Besson C, Pinto C, David JS (2007). Evapotranspiração num montado de *Quercus ilex*: as árvores e a pastagem. Reunião do Grupo de Trabalho de Ecologia, Ecofisiologia e Solos Florestais da SECF (Sociedad Española de Ciencias Forestales) *Suelos forestales: nuevas perspectivas en las relaciones suelo-árbol*, 22-23 Oct 2007, Salamanca, Spain (poster abstract).

Conceição N, **Paço** TA, Ferreira MI (2007). Coeficientes de cultivo para la variedad de pera Rocha. *Fruticultura Profesional*, Especial Peral III, 168, 41- 46.

Pereira JS, Mateus JA, Aires L, **Paço** TA, Pita G, Pio C, Banza J, Andrade V, Rodrigues A, David T S, Cerasoli S, David JS (2006). Effects of altered seasonality and low rainfall in net ecosystem exchange of carbon in three contrasting Mediterranean ecosystems. *Open Science Conference on the GHG Cycle in the Northern Hemisphere*. 14-18 Nov, Sissi-Lassithi, Crete (abstract).

Paço TA (2006). Necessidades hídricas em pomar de pessegueiro. In: *Guias de Rega*. COTR – Centro Operativo e de Tecnologia de Regadio, Beja.

Paço TA (2005). Alimentação de equinos em pastoreio. In: *Proceedings of Workshop em Nutrição e Alimentação de Equinos*, 9 Dec, Exponor, Oporto, 24-32.

Silva R, **Paço** TA, David TS, Rodrigues ML, Silva A, Ferreira MI (2005). Water relations in *Quercus suber* – some results. *IX Congresso Luso-Espanhol de Fisiologia Vegetal*, 18-21 Sep, Évora (poster abstract).

Paço TA, Ferreira MI (2004). Medição da evapotranspiração em cobertos descontínuos – necessidades de rega em pomar de pessegueiro. *Rega e Drenagem*, Dec 2004, 41-48.

Silva RM, Ferreira MI, **Paço** TA, Veloso A, Oliveira M (2004). Determinação das necessidades de rega em kiwi na região do Entre Douro e Minho. *Rega e Drenagem*, Dec 2004, 34-40.

Isbérie C, Cabibel B, Valancogne C, **Paço** TA (2004). Using information from sap flow measurements to improve soil adaptability to drip irrigation in orchards. *New Ag International*, Jun 2004, 48-49.

Ferreira MI, David TS, Silvestre J, **Paço** TA, Nadezhkina N, Thomsen A, Silva RM, Silva AL (2004). Sap flow measurements and their scaling up - Granier method. In: *Workshop Water Use of Woody Crops: techniques, issues, modelling and applications on water management*. 20-21 May, Ílhavo, Portugal, 6-7 (extended abstract).

Ferreira MI, **Paço** TA, Nadezhkina N (2004). Water stress indicators. Use of sap flow measurements for stress diagnosis. In: *Workshop Water Use of Woody Crops: techniques, issues, modelling and applications on water management*. 20-21 May, Ílhavo, Portugal, 13-14 (extended abstract).

Ferreira MI, **Paço** TA (2004). Reference ET and crop coefficients: how good is this approach for woody stands? Use of stress coefficients. In: *Workshop Water Use of Woody Crops: techniques, issues, modelling and applications on water management*. 20-21 May, Portugal, 22-23 (extended abstract).

Paço TA, Ferreira MI, Conceição N (2004). Combination of transpiration & ET techniques – Application on irrigated peach orchards. In: *Workshop Water Use of Woody Crops: techniques, issues, modelling and applications on water management*. 20-21 2004, Ílhavo, Portugal, 32-33 (extended abstract).

Silva R, Ferreira MI, **Paço** TA, Veloso A, Oliveira A (2004). Combination of transpiration & ET techniques – Application on kiwi (Determinação das necessidades de rega em kiwi, na região de Entre-Douro e Minho). In: *Workshop Water Use of Woody Crops: techniques, issues, modelling and applications on water management*. 20-21 2004, Ílhavo, Portugal, 36 (abstract).

Ferreira MI, **Paço** TA, Cohen M, Oncins JA (1998). Should the radial distribution of sap flow density be considered on the calculation of total sap flow, when using Granier sensors? In: Morrison JL, Domingo F, Allen SJ, Eds, *Proceedings 4th International Workshop on Field Techniques for Environmental Physiology*. 31 Mar, Almeria, Spain (poster abstract).

4. PARTICIPATION IN SCIENTIFIC RESEARCH PROJECTS

- 2014 EXPL/ATP-ARP/0252/2013
NativeScapeGR - Green roofing with native species: alternative urban landscape areas to enhance water use and sustainability in Mediterranean conditions – **project coordinator**
- 2013 - 2014 EXPL/AGR-PRO/1559/2012
AGRISAT_XXI - What remote sensing data can really tell about vegetation dynamics in agricultural crops. Looking ahead – **coordinator of ISA's team**
- 2011 – 2013 PTDC/AGR-PRO/111717/2009
H2Olive3S - Integration of in situ biophysical information on crop and land surface with remotely sensed observations to model olive water use and irrigation scheduling at local and regional scales (www.isa.utl.pt/proj/H2Olive3s/) – **coordinator of ISA's team**
- 2010 – 2013 PTDC/AGR-AAM/104562/2008
FUTUROLIVE - Repercussions of climate change on yield and quality of olive oil
- 2010 – 2013 PTDC/AAC-AMB/100635/2008
WUSSIAAME - Water use, survival strategies and impact of agrochemicals on water resources in agricultural Mediterranean ecosystems
- 2007 – 2010 PTDC/AGR-AAM/69848/2006
 Best management practices for deficit irrigation strategies in vineyards - water stress indicators and grape quality
- 2006 – 2009 POCI/AGR/59152/2004
 Mediterranean woody species of 'montados': surviving the drought
- 2005 – 2008 GOCE – CT – 2003 - 505572
CARBOEUROPE – Assessment of the European terrestrial carbon balance
- 2007 -2008 SO2/2.1/F28 SUDOE, INTERREG III B, SUDOE
PRECIRIEG - Réseau d'actions concertées en horticulture pour une conduite de l'irrigation précise et économique en eau en SUDOE
- 2001 - 2004 EVK1-CT-2000-00079 WATERUSE, UE
WATERUSE – Evaluation of alternative techniques for determination of water budget components in water – limited, heterogeneous land-use systems
- 2002 – 2004 AGRO 8–8.1 – Exp. Dev. & Dem.
 Demonstration of sensors utilization and experimental processes to the determination of irrigation amounts and timing in actinidea
- 1997 – 2000 FAIR 1-CT-95-0030, UE
 Innovative biological indicators to improve the efficiency of water and nitrogen use and the fruit quality in tree crops

5. RELEVANT PROFESSIONAL EXPERIENCE

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|--|----------|------------|
| January 2015 | ISA, UL | Lisbon, PT |
| Invited Scientist (<i>Incentivo</i> Program, FCT) | | |
| LEAF – Linking Landscape, Environment, Agriculture and Food, Research Group II - Soil, Water and Waste Nexus | | |
| July 2014 – December 2014 | ISA, UL | Lisbon, PT |
| Invited Scientist (project NativeScapeGR) | | |
| July 2009 – June 2014 | ISA, UTL | Lisbon, PT |
| Researcher (<i>Ciência 2008</i> Program, FCT) | | |
| Biosystems Engineering | | |
| Research Group: Water, Natural Resources and Climate | | |
| Nov 2004 - June 2009 | ISA, UTL | Lisbon, PT |
| Post-doctoral fellow at Forest Research Centre (CEF) with a fellowship supported by FCT. | | |
| First 3-year period working plan: <i>Evapotranspiration in discontinuous canopied crops: i) applications in irrigated orchards and in <u>Quercus suber</u> 'montado', ii) dissemination and results transfer</i> | | |

Second 3-year period working plan: *Evapotranspiration and water use in agricultural and forest Mediterranean ecosystems*

Jan 1997 - Nov 2004

ISA, UTL

Lisbon, PT

Research fellow at Agricultural Engineering Dep. (DER)

Ph D student with a fellowship supported by FCT (Oct 1998 - Jan 2003)

1999 - 2014

Teaching

- Instituto Superior de Agronomia, UTL: Irrigation and Drainage, Physics
- Faculdade de Medicina Veterinária, UTL, post-graduation short training: Pastures
- Universidade Nova de Lisboa – Faculdade de Ciências e Tecnologia: Ecological indicators
- Escola Superior Agrária de Elvas: Pastures
- Escola Superior Agrária de Beja: Data acquisition systems

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6. PEER-REVIEWING

2014: *Arid Land Research and Management, Water Science and Technology: Water Supply, Remote Sensing, Journal of Irrigation and Drainage Engineering*

2013: *Water Science and Technology: Water Supply, Journal of Irrigation and Drainage Engineering, Journal of Viticulture and Enology*

2012: *Journal of Experimental Botany*

2011: *Tree Physiology, Journal of Irrigation and Drainage Engineering, Journal of Experimental Botany*

2008: *Irrigation Science*

2007: *Journal of Irrigation and Drainage Engineering*

2004: *Journal of Experimental Botany*

7. COLLABORATION IN THE SUPERVISION OF ACADEMIC WORKS

2014 -

Retenção de Águas Pluviais e Melhoria do Conforto Térmico em Áreas Urbanas utilizando Coberturas Verdes. Instituto Superior de Agronomia, ULisboa, supervisor

2012 -

Sistema de controlo inferencial embebido em dispositivos sensoriais direcionado ao uso eficiente da água na agricultura. ISA, ULisboa, co-supervisor

2014-

Modelação da evapotranspiração de olival superintensivo utilizando o modelo SIMDualKc. ISA, ULisboa – supervisor

Monitorização do desenvolvimento do substrato vegetal de coberturas verdes mediante análise de imagem digital. ISA, ULisboa – supervisor

Avaliação do valor estético de plantas autóctones utilizadas em coberturas verdes. ISA, ULisboa – supervisor

Desempenho hidrológico de coberturas ajardinadas em zonas urbanas de clima mediterrânico. ISA, ULisboa – co-supervisor

Monitorização da evapotranspiração na cultura da vinha: aplicação do modelo SIMDualKc vs. Informação derivada de imagens de satélite. ISA, ULisboa – supervisor

2007

Balanço energético e coeficientes culturais em *Pyrus communis* cv. Rocha na região do Oeste. MSc thesis. ISA, UTL – co-supervisor

8. AWARDS

Best Poster Award

European Geosciences Union General Assembly 2012, Session SSS11.3: Soil and Irrigation Sustainability Practices (co-author).

European Geosciences Union, 25 April, Vienna, Austria; CEIGRAM - Research Centre for the Management of Agricultural and Environmental Risks.

APRH Award for 2004/2005

Section 'Basic and Nature Sciences' (for the Ph D thesis)

Award from *Associação Portuguesa dos Recursos Hídricos* – APRH, given every two years to research studies contributing in a significant way to the progress of technical and scientific knowledge and to the resolution of national problems, within the water resources domain.

February 2015

