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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).

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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.

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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*, 3/4: 77-92.

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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).

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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**, Nadezhdina 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**, Nadezhdina 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

2016-2018

PTDC/ATPARP/5826/2014

MedMossRoofs: Urban green covers based on mosses with no irrigation requirements under Mediterranean climate – **coordinator of ISA's team**

2014-2017

PRODER 54326 4.1 Cooperação para Inovação

OlivoReg: Optimização da produção de azeitona e rendimento de extração do azeite 54326

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
PRECIIRIEG - 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

- | | | |
|--|----------|------------|
| February-July 2015 | ISA, UL | Lisbon, PT |
| 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 | | |
| 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: <i>Evapotranspiration and water use in agricultural and forest Mediterranean ecosystems</i> | | |
| 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: Physics, Irrigation and Drainage | | |
| - Universidade do Algarve: Green roofs in the urban water cycle | | |
| - 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 | | |

6. PEER-REVIEWING

- 2015: *Landscape and Urban Planning, Journal of Hydrology, Hydrological Processes*
 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*

8

7. COLLABORATION IN THE SUPERVISION OF ACADEMIC WORKS

PhD

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

MSc

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

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

2007

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

8. AWARDS

Finalist Project

Oil&Water - Mixing olive oil and water - Call for Best Practices: Feeding Best Sustainable Development Practices on Food Security. *Feeding Knowledge Programme/EXPO Milano 2015* - Feeding the planet, Energy for life – **coordination**.

Finalist Project

National Innovation Contest Novo Banco, 10^a edition, 2014: BioCrust Roofs: desenvolvimento de tecnologias para a produção de coberturas verdes em condições mediterrânicas de escassez hídrica.

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.

9. ASSOCIATIVE ACTIVITIES

Vice-president - Associação Nacional de Coberturas Verdes (ANCV, <http://ancv.webnode.pt/>)

Secretary-General - REDISA CPLP - Segurança Alimentar e Desenvolvimento Sustentável

Secretary-General – Sociedade de Ciências Agrárias de Portugal

February 2016

