

CONTACT INFORMATION

Centre for Functional Ecology

Department of Life Sciences

University of Coimbra

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RESEARCH INTERESTS: *Global Change Biology; Plant Physiological Ecology; Biogeochemistry and Terrestrial Ecosystems Ecology; Mediterranean Ecosystems; Ecological Genomics; Science and Society.*

EDUCATION

- 2008 Ph.D. in Biology (Major in Ecology & Minor in Statistics), Duke University, USA.
- Dissertation title: ***Carbon and Water Relations in Pinus taeda: Bridging the Gap Across Plant Physiology, Genomics, and Global Climate Change.***
- 2008 Certificate in Ecology, University Program in Ecology, Duke University, USA.
- 1999 B.Sc. in Biology with High Honors - Research Path. Classification: Excellent ("18 -Very good with Distinction" pre-Bologna). University of Coimbra, Portugal.

RESEARCH EXPERIENCE & AFFILIATIONS

- Present Research member at Centre for Functional Ecology, Department of Life Sciences, University of Coimbra, Portugal (since 2009)
- 2017-19 Guest Scientist at the Department of Biogeochemical Integration, Max-Planck for Biogeochemistry, Jena, Germany
- 2017-19 Research Fellow in Medspec grant, NOVA-ID, FCT-UNL, Portugal. Supervisor: N. Carvalhais
[Includes career break for maternity leave]
- 2016 Scientist. Department of Biogeochemical Integration (Director Markus Reichstein), Max-Planck for Biogeochemistry, Jena, Germany. November-December.
- 2015-16 Guest Scientist at the Department of Biogeochemical Processes (Director Susan Trumbore), Max-Planck for Biogeochemistry, Jena, Germany
- 2009-15 Post-doctoral fellow at ISA - University of Lisbon and University of Coimbra in Portugal, and University of California at Berkeley in USA. Co-Advisors: J. Santos Pereira, H. Freitas and T. Dawson. [Includes career break for maternity leave]
- 2009-15 Research member of Forest Research Center, School of Agriculture, U. Lisbon, Portugal
- 2007-08 Research provider (Dendrochronology group at UC) and Scientific English editing services.
- 2003-08 Ph.D. candidate. Department of Biology, Duke University, USA. Advisor: Robert B. Jackson.
- 2006 Research Assistant, Department of Biology, Duke University, USA.
- 2000-02 Graduate student. Department of Biology, Duke University, USA. Advisor: Robert B. Jackson.
- 1998-99 Research undergraduate intern in Plant Ecophysiology. Department of Botany, University of Coimbra, Portugal.

TEACHING EXPERIENCE & AFFILIATIONS

Teaching Assistant - Semester-long full courses (undergraduate level):

- 2007 Teaching Assistant for Structure-Function Relationships in Biology. Spring Semester. Department of Biology, Duke University, USA.
- 2006 Teaching Assistant for AIDS and Emerging Diseases. Fall Semester. Department of Biology, Duke University, USA.
- 2004 Teaching Assistant for General Microbiology. Department of Biology, Duke University, USA.

Workshops or occasional lectures:

- 2015 “Universidade de Verão” hands-on class (Summer school for High-School students), University of Coimbra, Portugal.
- 2014 Invited lecturer in courses of Master’s program in Biodiversity and Plant Biotechnology, University of Coimbra, Portugal.
- 2011 COST ES0806 Training School: *Sampling and sample preparation for stable isotope analyses*. Local organizer: C. Máguas. Oct 30th - Nov 6th. FCUL, Lisbon, Portugal.
(http://speco.fc.ul.pt/sibae_training.html)

HONORS & AWARDS

- 2012 Selected for participation **3rd Annual Soil Summer Institute (SSI 2012)**. July 8-21, 2012. Colorado State University. Fort Collins, CO. USA.
- 2011 **“2011 Plant, Cell & Environment Postdoctoral Award” Honorable Mention** for oral communication Physiological Ecology Section of the Ecological Society of America (99th annual meeting August 7th-12th, Austin, TX, USA).
- 2007 Selected (only ~30% of applicants) for **SIRFER (Stable Isotopes) Summer Courses**. University of Utah, Salt Lake City, UT. USA.
- 2005 **Billings Award (Oral presentation) Honorable Mention**, Physiological Ecology Section of the Ecological Society of America (90th annual meeting: August 7th-12th, Montréal, Canada).
- 2004 **Best Poster Honorable Mention**, Physiological Ecology Section of the Ecological Society of America (89th annual meeting: August 1st-6th, Portland, OR, USA).
- 2004 **Duke Biology Departmental Research Grant-in-Aid**. Duke University, USA.
- 2002 **Best Poster Honorable Mention**, Physiological Ecology Section of the Ecological Society of America (87th annual meeting: August 4-9th, Tucson, AZ, USA).
- 2002 **Lawrence Giles Research Award**, Department of Biology, Duke University.
- 2001 **Catherine Kever & L. Giles Research Awards**, Department of Biology, Duke University
- 1999 **Graduation with Honors** (“Very good with Distinction”), University of Coimbra, Portugal.

Attributed to project team/output:

- 2015 *European Science TV and New Media Festival and Awards*: presentation trailer **“Mediterranean Forest”** (output from science dissemination project) was one of five finalists for the *New Media (Non-Interactive) Prize*. Final ceremony. 25th November. Lisbon, Portugal.

SCHOLARSHIPS & TRAVEL GRANTS

- 2009-15 Post-doctoral fellowship (FCT – Foundation for Science and Technology, Portugal)
- 2012 Partial scholarship to attend **3rd Annual Soil Summer Institute (SSI 2012)**. July 8-21, 2012. Colorado State University. Fort Collins, CO. USA.
- 2009 ESF/COST grant to attend Training School co-sponsored by FP 0601 FORMAN (**Forest Management and the Water Cycle**) and FA 0603 PPE (**Plant Proteomics in Europe**)
- 2007 BASIN partial scholarship for **SIRFER (Stable Isotopes) Summer Courses**. University of Utah, Salt Lake City, UT. USA.
- 2005 International Research Travel Award, **Duke University** Graduate School
- 2004-05 Doctoral Fellowship from the **Foundation Calouste Gulbenkian**, Portugal
- 2004 **Duke University** Graduate School Conference Travel Award
- 2004 Tuition scholarship, **Summer Institute of Statistical Genetics**, NCSU, USA
- 2000-03 Doctoral Fellowship PRAXIS XXI, **FCT**, Portugal
- 2003 Duke University Graduate School Conference Travel Awards (2x)
- 1999 Short-term scholarship to visit a US institution, **FLAD**, Portugal

RESEARCH GRANTS

Coordination role: Principal Investigator (PI) or Co-PI:

- 2014 *“Controls on the Plant-Soil Stoichiometry of Dryland Agroecosystems: A Sabbatical Strengthening Grant”*: Project Director: R. McCulley, University of Kentucky; **Co-Project Directors** and Sabbatical Hosts: **C. Moura** and M. Caldeira, Instituto Superior de Agronomia, University of Lisbon, Portugal.
- 2012-13 Sub-award to Portuguese Institution on “Collaborative Research: *Decomposition in Drylands: Soil Erosion and UV interactions*”: **Sub-award PI: C. Moura** (NSF Collaborative Research grant PI: R. McCulley, University of Kentucky, USA).
- 2010-11 FLAD/NSF – “Portugal – EUA: Parcerias e Redes para Investigação 2010” (Partnerships and Research Networks 2010) - Projecto 91-04/10: *Towards an holistic understanding of shrub encroachment in Southern Portugal* **PI: C. Moura**; American Research Partners: R. McCulley, University of Kentucky and J. Kim, Duke University, USA.
- 2000-08 Designed and coordinated research projects within the context of Ph.D. candidacy. Smaller side projects were awarded grants-in-aid/research awards (see list under awards).

As team member:

- 2017-19 *Monitoring Gross Primary Productivity in Mediterranean oak woodlands through remote sensing and biophysical modelling*. PTDC/AAGMAA/3699/2014; PI: S. Cerasoli, School of Agriculture, University of Lisbon, Portugal; Funded by FCT (Portuguese National Science Foundation).
- 2011-14 *LTER (Long-Term Ecosystem Research) – Montado* - Long-term socio-ecological research and monitoring in a Mediterranean cultural landscape. LTER/BIA-BEC/0048/2009; PI: M. Reis Fonseca, University of Lisbon, Portugal; Funded by FCT (Portuguese National Science Foundation) – affiliated with international LTER network.

- 2010-13 CARBOWATSHRUB - Shrub encroachment: effects on carbon, nitrogen and water cycling. PI: M. Caldeira, School of Agriculture, University of Lisbon, Portugal; Funded by FCT – Foundation for Science and Technology, Portugal
- 2010-13 CENECOGEN - Insights into the adaptation of *Cenococcum geophilum* to serpentine soil: ecology and genomics combined. PI: L. Muller, University of Coimbra, Portugal; Funded by FCT (Portuguese National Science Foundation).
- 2011-12 O Montado: da biodiversidade aos serviços do ecossistema (Montado: from Biodiversity to Ecosystem Services) CV, 16867. PI: A.M. Azul (CFE, University of Coimbra, Portugal.); Funded by Programa Operacional Factores de Competitividade (COMPETE).
- 2011 Programa de Cooperação Científica e Tecnológica FCT/DAAD - Acção Nº _A13/11: Mediterranean shrub invasion: effects on carbon, nitrogen and water cycling. PI: M. Caldeira, Instituto Superior de Agronomia, University of Lisbon, Portugal – collaboration with Germany.
- 2010-11 Programa de Cooperação Científica e Tecnológica FCT/CSIC - 2010/2011 - Proc.º 441.00 CSIC. Facilitation mediated by *Retama sphaerocarpa* (L.) Boiss along an environmental gradient and relevance of the plant-soil interactions for ecological succession processes. PI: S. Rodriguez-Echeverria, CFE, University of Coimbra, Portugal – collaboration with Spain.
- 2005-08 Climate change inferences from tree rings in the Mediterranean area: a database for Portugal (POCI/CLI/58680/2004). PI: C. Nabais, University of Coimbra, Portugal. Funded by FCT (Portuguese National Science Foundation).

PUBLICATIONS

Theses

Moura, C.F. (2008) *Carbon and Water Relations in Pinus taeda: Bridging the Gap Across Plant Physiology, Genomics, and Global Climate Change*. Ph.D. thesis. Duke University

Peer-reviewed journals & Scientific datasets

Boavida-Portugal, J, **Moura, CF**, Carvalhais N, Migliavacca M, El-Madany T, Silva J, Cerasoli S. (*in prep*). *Seasonal and inter-annual rainfall patterns drive Mediterranean cork oak woodland productivity and carbon sequestration* (to be submitted to Agricultural and Forest Meteorology)

Cerasoli, Sofia, Costa e Silva, Filipe, Portugal, Joana, **Moura, Catarina F.**, Carvalhais, Nuno, Pereira, João S., David, Jorge S., Migliavacca, Mirco, El-Madany, Tarek. (2020) *Carbon and water fluxes in a cork oak woodland in Central Portugal*. (Version v1.0). [Data set]. Zenodo. <http://doi.org/10.5281/zenodo.3727798>

Hartmann, H*, **Moura CF***, Anderegg W*, Ruehr N*, Salmon Y*, Allen, C.D., Arndt, S., Breshears, D., Davi, H., Galbraith, D., Ruthrof, K., Wunder, J., Adams, H.D., Bloemen, J., Cailleret, M., Cobb, R., Gessler, A., Grams, T., Jansen, S., Lloret, F. and O'Brien, M. (2018) *Research frontiers for improving our understanding of drought-induced tree and forest mortality*. New Phytologist, 218(1):15-28 *equally contributing and corresponding authors. Top Downloaded paper 2018-19 (New Phytologist/Wiley).

Maherali H.*, **Moura C.F.***, Caldeira M.C., Willson C.J. & Jackson R.B. (2006) *Functional coordination between leaf gas exchange and vulnerability to xylem cavitation in temperate forest trees*. Plant Cell Environment, 29:571-583; *equally contributing authors

Preprints open discussion

Tang, X., Carvalhais, N., **Moura, C.**, Ahrens, B., Koirala, S., Fan, S., Guan, F., Zhang, W., Gao, S., Magliulo, V., Buyse, P., Liu, S., Chen, G., Yang, W., Yu, Z., Liang, J., Shi, L., Pu, S., and Reichstein, M.: *Global variability of carbon use efficiency in terrestrial ecosystems*. (2019) Preprint discussion in Biogeosciences Discussions. <https://bg.copernicus.org/preprints/bg-2019-37/>

Science-policy report contributions

Soares-David T., **Moura C.** and Vaz M. (2015) Contribution to *Subsectorial report/research plan on "Sistemas de produção em stress"* for inclusion in report for Agenda Portuguesa da Investigação e Inovação no Sobreiro e na Cortiça.

CONTRIBUTED PRESENTATIONS

- 2019 **Moura, C.**, Bao S., Besnard S., Cerasoli S., El-Madany T., Koirala S., Nelson J., Neves J., Migliavacca M., Costa e Silva F., Portugal J., Carvalhais N. *Ecohydrological analysis on the carbon and water cycles in Coruche*. MEDSPEC final meeting and workshop. 4th-5th December. Instituto Superior de Agronomia, Lisboa, Portugal.
- 2019 Carvalhais N., Bao S., Besnard S., Jung M., Koirala S., **Moura C.**, Nelson J., Weber U. *On the integration of EO data in LUE models to estimate GPP terrestrial ecosystems: advantages and limitations*. MEDSPEC final meeting and workshop. 4th-5th December. Instituto Superior de Agronomia, Lisboa, Portugal.
- 2019 Boavida-Portugal J., **Moura C.**, Carvalhais N., Migliavacca M., El-Madany T., Costa e Silva F., Cerasoli S. *Seasonal and inter-annual rainfall patterns drive Mediterranean cork oak woodland productivity and carbon sequestration*. MEDSPEC final meeting and workshop. 4th-5th December. Instituto Superior de Agronomia, Lisboa, Portugal.
- 2019 **Moura, C.**, Bao S., Besnard S., Cerasoli S., El-Madany T., Koirala S., Nelson J., Neves J., Migliavacca M., Costa e Silva F., Portugal J., Carvalhais N. *Ecohydrological analysis on the carbon and water cycles in Coruche*. MEDSPEC final meeting and workshop. 4th-5th December. Instituto Superior de Agronomia, Lisboa, Portugal.
- 2019 Portugal J., **Moura C.**, Carvalhais N., Migliavacca M., El-Madany T., Costa e Silva F., Cerasoli S. *Seasonal and inter-annual impact of meteorological variables on productivity and carbon sequestration in a Mediterranean cork oak woodland*. European Geophysical Union, 7-9th April. Vienna, Austria.
- 2018 Tang X., Carvalhais N., **Moura C.**, Reichstein M. Highlighted poster presentation: *Global variation of carbon use efficiency in terrestrial ecosystems*. European Geophysical Union, 7-12th April. Vienna, Austria.
- 2017 **Moura C.**, Nelson J. McCulley R. Poster presentation: *Effects of managed, biodiverse pastures on nutrient dynamics in a Mediterranean agroforestry ecosystem* in PS6 - Biogeochemistry: Linking Community Structure And Ecosystem Function. 102th annual meeting of the Ecological Society of America. 6th-11th August, Portland, Oregon, USA.
- 2015 Costa S., Ribeiro, S., **Moura C.**, Lecomte X., Martins A., Caldeira, M.C. Poster presentation. *Comunidades de nemátodes da rizosfera associadas à expansão de Cistus ladanifer no ecossistema Montado*. Simpósio: "O Solo na Investigação Científica em Portugal" (The Soil in Scientific Research in Portugal). 27th November, Instituto Superior de Agronomia, Lisbon, Portugal.

- 2015 **Moura C.**, Cerasoli S., Pereira J.S. and Dawson T.E. Symposium oral presentation: *Impact of land-use changes on tree physiology: using stable isotopes as proxies in a Montado ecosystem*. In Symposium: Isótopos estables en ecología: atravesando fronteras entre disciplinas y escalas / Isótopos estáveis em ecologia: atravessando fronteiras entre disciplinas e escalas. 4th Iberian Ecological Congress. 16th–19th June, Coimbra, Portugal.
- 2014 **Moura C.**, Cerasoli S., Pereira J.S. and Dawson T.E. Oral presentation: *Do cork oak trees benefit from a surrounding legume-rich, permanent pasture?* 99th annual meeting of the Ecological Society of America. 10th-15th August, Sacramento, CA, EUA.
- 2012 Ribeiro S., Caldeira M.C., Lecomte X., **Moura C.**, Martins A.M., Costa S.R. Poster presentation. *Nematode communities and dynamics associated with shrub encroachment*. Aboveground belowground interactions: technologies and new approaches. Joint meeting of the British Ecological Society, the Biochemical Society and the Society for Experimental Biology. 8th-10th October, Charles Darwin House, London, UK.
- 2011 **Moura C.**, Dawson TE, Pereira JS. Oral presentation: *Potential effects of sown, biodiverse pastures in the understory of an LTER Montado system: ¹⁵N and ¹³C in Cork Oak leaves*. 96th annual meeting of the Ecological Society of America. 7th-12th August, Austin, Tx, EUA.
- 2010 Gonçalves S.C., Cunha J.C., **Moura C.**, Freitas H., Muller L.A.H. *Insights into the adaptation of Cenococcum geophilum to serpentine soil: ecology and genomics combined (CENECOGEN)*. 9th International Mycological Congress. 1st-6th August, Edinburgh, UK.
- 2009 **Moura C.F.** and Freitas H. Poster presentation: *Using your vacation trip towards a more ecologically-informed society: A journey to and from the Galapagos Islands*. 94th annual meeting of the Ecological Society of America. 2nd-7th August, Albuquerque, New Mexico
- 2008 **Moura C.F.** and Jackson R.B. Oral presentation: *Regulation of carbon metabolism in two cohorts of pine foliage growing under elevated CO₂*. 93rd annual meeting of the Ecological Society of America. 3rd-8th August, Milwaukee, Wisconsin, USA.
- 2006 **Moura C.F.**, Grene R. e Jackson R.B. Oral presentation: *Alterações climáticas e microarrays: efeitos do aumento de CO₂ na expressão genética de Pinus taeda*. II Congresso Ibérico de Ecologia. 18-21 July, Lisboa, Portugal.
- 2005 **Moura C.F.**, Grene R. and Jackson R.B. Poster presentation: *Microarrays and Global Climate Change: Exploring a Pine Forest under Elevated CO₂*. Ecological Genomics Symposium "Genes in Ecology, Ecology in Genes". 4th-6th November, Lenexa, Kansas, USA.
- 2005 **Moura C.F.**, Grene R. and Jackson R.B. Oral presentation: *Gene expression patterns of loblolly pine exposed to elevated CO₂ in the field*. 90th annual meeting of the Ecological Society of America. 7th-12th August, Montréal, Canada.
- 2004 **Moura C.F.** and Jackson R.B. Poster presentation: *Gene expression when loblolly pine trees FACE a rise in CO₂*. 89th annual meeting of the Ecological Society of America. 1st-6th August, Portland, Oregon, USA.
- 2004 Caldeira M.C., **Moura C.F.**, Maherali H. and Jackson R.B. Poster presentation: Variation in root vulnerability of 13 woody species to xylem cavitation. 89th annual meeting of the Ecological Society of America. 1st-6th August, Portland, Oregon, USA.
- 2004 **Moura C.F.**, Watkinson J., Grene R. and Jackson R.B. Poster presentation: *Elevated CO₂ and gene expression: a field study of loblolly pine*. Annual meeting of the American Society of Plant Biologists. 24th-28th July, Lake Buena Vista, Florida, USA.
- 2004 Vasquez-Robinet, C., Watkinson, J.I., Heath, L., Ramakrishnan, N., Singhal, V., **Moura, C.**, Sioson, A., Shuckla, M. and Grene, R. Poster presentation: Differential expression of chaperone genes in

- preconditioning for photosynthetic acclimation in drought-stressed Loblolly pine. Annual meeting of the American Society of Plant Biologists. 24th-28th July, Lake Buena Vista, Florida, USA.
- 2003 **Moura C.F.**, McElrone A.J., Watkinson J., Grene R. and Jackson R.B. Poster presentation: *Genome-wide effects of elevated CO₂ in the loblolly pine FACE experiment*. 88th annual meeting of the Ecological Society of America. 3rd-8th August, Savannah, Georgia, USA.
- 2003 **Moura C.F.**, Maherali H., Addington R.N. and Jackson R.B. Poster presentation: *Modified Lignin and Altered Water Relations in Pinus taeda: Insights From a Single Gene Mutation*. 5th International Workshop on Field Techniques for Environmental Physiology. 16th- 22nd March, Tenerife, Canary Islands, Spain.
- 2002 **Moura C.F.**, Maherali H., Addington R.N., O'Malley D.M., Sederoff R.R., and Jackson R. B. Poster presentation: *Hydraulic architecture and physiology of Loblolly Pine genotypes: Potential effects of abnormal lignin*. 87th annual meeting of the Ecological Society of America. 4-9th August, Tucson, Arizona, USA.
- 2001 **Moura C.F.**, Maherali H., Willson C.J. and Jackson R.B. Poster presentation: *Trade-offs among vulnerability to xylem cavitation, water transport and other physiological traits in eleven co-occurring woody species*. 86th annual meeting of the Ecological Society of America. 5th-10th August, Madison, Wisconsin, USA.

INVITED RESEARCH TALKS, OUTREACH AND SCIENCE DISSEMINATION

- 2020 "O que é ser (mulher) cientista?" Voluntary activity for elementary school students in the context of the International Day of Women Scientists and International Day of Women. EB-1 CE Quinta das Flores, Coimbra, Portugal
- 2017 *What is the life and role of a scientist?* Outreach activity repeated (with updated modifications) at the request of Institute and participating school for German Highschool students studying Sciences and English. Max Planck Institute of Biogeochemistry, Jena, Germany
- 2016 *What is like to be a scientist?* Outreach activity for German Highschool students studying Sciences and English. Max Planck Institute of Biogeochemistry, Jena, Germany
- 2011 *From global to local environmental changes: using multidisciplinary approaches to understand the response of temperate and mediterranean forests*. Invited seminar. School of Biological and Environmental Sciences. University of Stirling, Scotland, UK.
- 2011 *Biodiversidade e Florestas (Biodiversity and Forests)* - Presentation at Escola Secundária de Avelar Brotero (highschool) in the International Day of Tree and Forests. Coimbra, Portugal.
- 2009 *Alterações climáticas e florestas: uma perspectiva (quase) genómica. (Climate Change and Forests: an (almost) genomic perspective)* Presentation for highschool students in the action "Conversas com cientistas/Talks with Scientists". National Week of Science. Science Museum of the University of Coimbra, Portugal.
- 2009 *Seguindo as pegadas de Darwin: relatos de uma viagem às Galápagos. (Following in Darwin's footsteps: a trip to the Galapagos Islands)*. Seminar series "Contam as Plantas" (What the Plants Can Tell) for the general public held at the Shopping Mall Dolce Vita. Organized by the Department of Botany/Museum of Botany, University of Coimbra, Portugal.
- 2008 *Alterações climáticas num contexto genómico. (Climate Change in a Genomic Context)*. 17th December. Department of Forestry Engineering of the Agronomy Institute, Technical University of Lisbon, Portugal.

- 2006 *From the atmosphere to the transcriptome: loblolly pine trees FACE a rise in CO₂*. University Program in Ecology seminar series. 10th November, Duke University, USA.
- 2004 *Gene expression trends for a Pinus taeda forest*. Poster presentation during Duke Forest Field Trip and FACE facility tour - Forum in Landscapes, Genomics & Transgenic Conifer Forests. 17-19th November, Nicholas School of the Environment and Earth Sciences, Duke University, USA.
- 2004 *Effects of elevated CO₂ on the gene expression of field-grown loblolly pine*. Global Change Mini-Symposium: Annual Meeting of the American Society of Plant Biologists, 24-28th July, Lake Buena Vista, Florida, USA.

MEDIA CONTRIBUTIONS

- Presentation trailer "[Mediterranean Forest](#)" from project "O Montado: da biodiversidade aos serviços do ecossistema (*Montado: from Biodiversity to Ecosystem Services*)". C. Moura as scientific team member.
- Radio Interview/Rubric – Catarina Moura (invited researcher) speaks about Cork Oak and Montado Ecosystem intercalated with the ideas of pre-school children on the same topic. "Experimentar e Descobrir o Mediterrâneo". Activity developed in the context of project "O Montado: da Biodiversidade aos Serviços do Ecossistema". Rádio Universidade Coimbra. To hear this rubric please [click here](#).
- Web-page about Montado ecosystem and deliverables of science dissemination project: <http://montadomedia.com/>

ORGANIZATION OF CONFERENCES, SYMPOSIA AND ACADEMIC EVENTS

- 2019 Thomas Pugh (Convener) | Co-conveners: Gitta Lasslop, Matthias Forkel, Martin Thurner, Kailiang Yu, Yunpeng Luo, **Catarina Moura**, Rene Orth. Session BG2.12. "Constraining present and future global vegetation dynamics and carbon stocks". **European Geophysical Union**, 7-9th April. Vienna, Austria.
- 2015 **Moura C.** and deSoto L. Organizers of the Symposium "O papel das reservas de carbono no crescimento das plantas lenhosas" (*The role of carbon reserves in the growth of woody plants*). 4th Iberian Congress of Ecology – a joint **SPECO/AEET meeting**. 16th-19th June. Coimbra, Portugal.
- 2015 **Moura C.** and Nabais C. (organizers and lecturers): "Do carbono à madeira: um dia na vida de uma árvore" (*From Carbon to Wood: a day in the life of a tree*) – transversal activity. 20th July. **Programa Universidade de Verão da Universidade de Coimbra** (for High-School Students). University of Coimbra, Portugal (<http://www.uc.pt/UV>)
- 2005 Member of Events Committee of Sigma Xi's Duke Chapter – planning and coordinate events related with the reactivation and continued function of Duke Chapter of Honorary Society Sigma Xi
- 1998 Member of Organizing and Hosting Committee of the "III National Meeting for Students of Biology"

OTHER SYNERGISTIC ACTIVITIES

- 2016-17 **Scientific Committee Member** for the XIV MEDECOS International Conference with the motto "Mediterranean ecosystems as human-driven scenarios for evolutionary and ecological changes" (http://www.medecos-aeet-meeting2017.es/Scientific_Committee_327_p.htm)

- 2015 **Scientific Committee Member** for the 4th **Iberian Conference of Ecology** with the motto “*Ecology and Societal Challenges*” (Speco/AEET joint organization). 16th-19th June, Coimbra, Portugal.
- 2014-15 **Representative member** of University of Coimbra at “**Centro de Competências do Sobreiro e da Cortiça**” – a Portuguese multidisciplinary and multisectorial national committee for improvement of research and development, knowledge and productivity of activities related to Cork and Cork-Oak. Participation in national meetings representing the University of Coimbra (one of three representatives at general meetings; sole representative at “Physiology and Forest Production” subsection).
- 2010 Member of SIBAE (**Stable Isotope European COST network**) and creator of stable isotope researchers directory – task for Work Package I.
- 2005 Involved in the **reactivation of the Duke Chapter of Sigma Xi**
- 1997-99 Student member in the “**Pedagogical Committee**” for the degree in **Biology**. University of Coimbra, Portugal (2 terms).
- 1997-99 Member of the **1st Governing Board** for the “Biology Student’s Association”, **NEB/AAC**, University of Coimbra, Portugal.

STUDENTS SUPERVISION

- 2003-06 Co-supervised work by several undergraduates in the Jackson lab
- 2004 Rachel Cohen (undergraduate at Oberlin College) worked in the Jackson lab for a semester under my supervision

ADVANCED TRAINING (not including 3 yrs of semester-long courses during Ph.D.)

- 2016 *R – The basics*. 18-19th May. Instructor: G. Kraemer. Max-Planck Institute for Biogeochemistry, Jena, Germany.
- 2016 *Python – Advanced programming techniques (level B1) and Scientific Applications (level B2)*. 6-7th April. Instructors: D. Feist and I. Burjack. Max-Planck Institute for Biogeochemistry, Jena, Germany.
- 2016 *Python – Very basics (level A1) and basics (level A2)*. 16-18th March. Instructors: D. Feist and I. Burjack. Max-Planck Institute for Biogeochemistry, Jena, Germany.
- 2015 Workshop “*Como Comunicar Ciência*” (*How to Communicate Science*). Coordinated by Agência Latino-Americana para a Divulgação da Ciência e Tecnologia (www.dicyt.com) under the project INESPO II (Innovation-Network Spain-Portugal). 20th January. Casa Costa Alemão, Polo II – Universidade de Coimbra, Portugal
- 2014 *International Interdisciplinary Workshop on Tree Mortality*. 20-23rd October. Max-Planck for Biogeochemistry. Jena, Germany.
- 2014 *Licor 6400: Photosynthesis and Fluorescence course*. Instructor: Cristina Nabais. 28th February, 14th March, 22nd and 29th April. Centre for Functional Ecology, University of Coimbra, Portugal.
- 2013 Advanced course in Data Analyses in Ecology: *Multivariate analysis module*. Instructor: José Paulo Sousa. 4th-8th March. Department of Life Sciences, University of Coimbra, Portugal.
- 2013 Advanced course in Statistics: *Data Exploration, Regression, GLM & GAM with introduction to R*. Instructor: Rui Ribeiro. 25th Feb-1st March. Department of Life Sciences, University of Coimbra, Portugal.

- 2012 *3rd Annual Soil Summer Institute (SSI 2012)*. July 8th-21st, 2012. Colorado State University. Fort Collins, CO, USA.
- 2010 *Isotopics: Environmental reconstruction using stable isotopes*. Semester-long graduate seminar course. Lecturers: T. Dawson and S. Mambelli. August-December. Department of Integrative Biology. UC-Berkeley, USA.
- 2010 *Workshop Ciência, Política e os Media*. April 15th. Fundação Calouste Gulbenkian, Lisboa, Portugal.
- 2009 *A brief introduction to Bayesian statistics and hierarchical Bayesian modeling in ecology*. Lecturers: K. Ogle and I. Ibanez. October 18th. IX Congresso AEET. Úbeda, Jaén, Spain.
- 2009 *Sampling-DNA extraction-PCR/DGGE-gel analyses*. Instructor: Dr. S. Rodriguez-Excheverria. 15-16th July. Department of Botany, University of Coimbra, Portugal.
- 2009 *Forest and water stress in a changing environment: from cell to ecosystems*. COST Dynamic Training School Co-sponsored by COST actions FP 0601 FORMAN (Forest Management and the Water Cycle) and FA 0603 PPE (Plant Proteomics in Europe). 20th-23rd May. Orvieto, Italy.
- 2007 *Stable Isotope Ecology* summer courses – lectures and laboratory experience. 10th-23rd June. Stable Isotope Ratio Facility for Environmental Research (SIRFER), University of Utah, Salt Lake City, UT, USA. (<http://stableisotopes.utah.edu/2004-2007.html>)
- 2005 *Introduction to RT-PCR and Quantitative RNA-PCR* courses. KT-Biotechnology. 14th-16th March. Durham, NC, USA.
- 2005 *Workshop Aquaporins 2005*. Feb 28th-March 1st, Turin, Italy.
- 2005 Graduate course (GS 302) - *Introduction to College Teaching*. Graduate School. Duke University, Durham, NC, USA.
- 2004 *Summer Institute in Statistical Genetics: Modules 11 (Introduction to Bioinformatics) and 16 (Microarray analysis)*. June 2004, NCSU, Raleigh, NC, USA.
- 2003 5th International Workshop on *Field Techniques for Environmental Physiology*. 16th- 22nd March, Tenerife, Canary Islands, Spain.
- 1999 *Mediterranean Ecosystems under Threat: Monitoring and Protecting Strategies*. 2nd-14th October, Porto Conte Ricerche, Tramariglio, Alghero, Sardegna, Italy.

EXPERIENCE AS REFEREE

Biogeochemistry (*since 2016*); Ecohydrology (*since 2015*); Acta Physiologiae Plantarum (*since 2012*); Plant Biology (*since 2011*), European Journal of Soil Biology (*since 2011*), Plant Ecology and Diversity (*since 2009*).

PROFESSIONAL SOCIETIES

AEET (Spanish Terrestrial Ecology Society), ESA (Ecological Society of America), Sigma-Xi Scientific Honorary Society (Elected Full Member), SPECO (Portuguese Society of Ecology).

LANGUAGE SKILLS

Portuguese (native); English (fluent; C2 level); Spanish (C1); French (B1); German (A2); Italian (A2)