



**CURRICULUM VITAE (CVA)**

**IMPORTANT – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.**

<b>CV date</b>	14/01/2022
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**Part A. PERSONAL INFORMATION**

First name	María Rosa		
Family name	Mosquera Losada		
Gender (*)	Female	Birth date	26/09/1965
ID number	36063208-J		
e-mail	mrosa.mosquera.losada@usc.es	URL Web	
Open Research and Contributor ID (ORCID)(*)		0000-0003-4254-2329	

(\*) Mandatory

**A.1. Current position**

Position	Full Professor		
Initial date	2017		
Institution	University of Santiago de Compostela		
Departament/Center	Department of Crop Production and Engineering Projects		
Country	Spain	Teleph. number	600942437
Key words	Agroecology, agroforestry, forestry, agriculture, policy, innovation, circular economy, climate change, value chain, bioeconomy		

**A.2. Previous positions (research activity interruptions, art. 45.2.c))**

Period	Position/Institution/Country/Interruption cause
xxxx-xxxx	

**A.3. Education**

PhD, Licensed, Graduate	University/Country	Year
Doctor Ciencias Biológicas	University of Santiago de Compostela, Spain	1993
Lic Ciencias Biológicas	University of Santiago de Compostela, Spain	1988

**Part B. CV SUMMARY (max. 5000 characters, including spaces)**

María Rosa Mosquera Losada is a Distinguished Professor and Coordinator of the Interuniversity Doctoral Programme in Agricultural and Forestry Research at the University of Santiago de Compostela (USC), with a research focus on: i) productivity to increase and diversify agricultural income, ii) environment (climate change adaptation and mitigation (soil carbon sequestration, LCA)), iii) nutrient re-cycling (circular economy and bioeconomy), iv) biodiversity (autochthonous animal breeds (cattle, horses, pigs, sheep, goats), flora biodiversity) and v) social (culture) aspects. Recently, María Rosa Mosquera-Losada has developed a strong focus on innovation linked to multi-actor approach and knowledge inventory as well as policy at local, regional, national and international level. The relevance of these research topics is mainly due to these topics are about hot spot research issues which are in line with the recent EU strategies (Farm to Fork, Green Deal, Climate change and Biodiversity strategies, Circular Economy, Bioeconomy...) thus increasing the scientific knowledge at high level. The results of her scientific career were mainly communicated through scientific papers (45 SCI publications in the last 10 years), divulgation materials (e.g. AFINET handbook, demonstration plots), communications in conferences and congress (100 in the last 10 years), books (e.g. Silvopastoralism and Sustainable Land Management (CAB International), Agroforestry in Europe-Current Status and Future Prospects (Springer),

Agroforestry for sustainable agriculture (Francis Dodds)) and extension teaching. María Rosa Mosquera Losada has participated in several national and international projects ([AGFORWARD](#), [AFINET](#), [OPEN2PRESERVE](#), [EURAKNOS](#), [EUREKA](#), [GOGRASS](#), [UNDERTREES](#), [AE4EU](#), VAIA), being the coordinator of the thematic network AFINET. AFINET is the unique agroforestry thematic network funded by the European Commission to foster knowledge exchange between scientists and practitioners on agroforestry. Moreover, María Rosa Mosquera Losada has had several contracts with the Regional Administration leading silvopasture innovation implementation in real farms with horses, pigs, sheep and cows, but also silvoarable (medicinal plants and maize combined with trees). She has already established an agroforestry network in Galicia with more than 200 members with different profiles (researchers, policy makers, advisers, farmers...) using multicicipatory approach techniques. At international level, María Rosa Mosquera Losada is co-chairing the Croplands Research Working Group of the Global Research Alliance (GRA), an organism official observer of the IPCC, that involves the networks of agroforestry systems, conservation agriculture, integrated crop-livestock systems, irrigation efficiency, landscape management of agricultural systems, nutrient management, and peatland management. She is also connected with the Global Alliance for Climate Smart Agriculture (FAO), co-chairing the “Enabling Environment Working Group” and with the SCAR AKIS working group. Moreover, she was the President of the European Agroforestry Federation (EURAF) from 2012 to 2018. Regarding the training of young researchers, María Rosa Mosquera Losada has supervised 12 PhD thesis in the last 10 years defended with *Summa cum laude* from which SCI papers were published in JCR journals. Most of these researchers are currently working in highly prestigious research centers. She also organized several scientific events such as the IV European Agroforestry Conference, the European Seminar as well as many activities of knowledge exchange with the North of Africa and Asia (seminars and workshops with 3-week tours for Agriculture and Foresters technicians of Tunisia, Morocco, Argelie, Mauritanie, Palestine...). She is also associate editor of the best JCR journal about agroforestry (*Agroforestry Systems*), the Spanish Journal of Agricultural Research, the *Frontiers of Agroecology Journal* and the EURAF and GRA newsletters. María Rosa Mosquera Losada is also evaluator of researchers and projects at national and international level.

## Part C. RELEVANT MERITS

### C.1. Publications

1. Gonçalves B, Morais MC, Pereira S, **Mosquera-Losada MR**, Santos M (2021) Tree–Crop Ecological and Physiological Interactions Within Climate Change Contexts: A Mini-Review. *Frontiers in Ecology and Evolution* 9. <https://doi.org/10.3389/fevo.2021.661978>
2. Pantera A, **Mosquera-Losada MR**, Herzog F, den Herder M (2021) Agroforestry and the environment. *Agroforestry Systems* 95, 767-774.
3. Orozco R, **Mosquera-Losada MR**, Rodríguez J, Adamseged ME, Grundmann P (2021) Supportive business environments to develop grass bioeconomy in Europe. *Sustainability* 13. <https://doi.org/10.3390/su132212629>
4. Rodríguez-Rigueiro FJ, Santiago-Freijanes JJ, **Mosquera-Losada MR**, Castro M, Silva-Losada P, Pisanelli A, Pantera A, Rigueiro-Rodríguez A, Ferreiro-Domínguez N (2021) Silvopasture policy promotion in European Mediterranean areas. *Plos One* E 16(1): e0245846. <https://doi.org/10.1371/journal.pone.0245846>
5. Damianidis C, Santiago-Freijanes JJ, den Herder M, Burgess P, **Mosquera-Losada MR**, Graves A, Papadopoulos A, Pisanelli A, Camilli F, Rois-Díaz M, Kay S, Palma JHN, Pantera A (2020) Agroforestry as a sustainable land use option to reduce wildfires risk in European Mediterranean area. *Agroforestry Systems* 95, 919-929.
6. González-Hernández MP, Mouronte V, Romero R, Rigueiro-Rodríguez A, **Mosquera-Losada MR** (2020) Plant diversity and botanical composition in an Atlantic heather-gorse dominated understory after horse grazing suspension: Comparison of a continuous and rotational management. *Global Ecology and Conservation* 23. DOI: 10.1016/j.gecco.2020.e01134

7. **Mosquera-Losada MR**, Amador-García A, Rigueiro-Rodríguez A, Ferreiro-Domínguez N (2019) Circular economy: Using lime stabilized bio-waste based fertilisers to improve soil fertility in acidic grasslands. *Catena* 179, 119-128.
8. Santiago-Freijanes JJ, **Mosquera-Losada MR**, Rois-Díaz M, Ferreiro-Domínguez N, Pantera A, Aldrey JA, Rigueiro-Rodríguez A (2018) Global and European policies to foster agricultural sustainability: agroforestry. *Agroforestry systems* 95, 775-790.
9. **Mosquera-Losada MR**, Santiago-Freijanes JJ, Rois-Díaz M, Moreno G, den Herder M, Aldrey-Vázquez JA, Ferreiro-Domínguez N, Pantera A, Pisanelli A, Rigueiro-Rodríguez A (2018) Agroforestry in Europe: A land management policy tool to combat climate change. *Land Use Policy* 78, 603-613.
10. Rigueiro-Rodríguez A, Amador-García A, Ferreiro-Domínguez N, Muñoz-Ferreiro N, Santiago-Freijanes JJ, **Mosquera-Losada MR** (2018) Proposing policy changes for sewage sludge applications based on zinc within a circular economy perspective. *Land Use policy* 76, 839-846

## C.2. Congress

1. Ferreiro-Domínguez N, Rigueiro-Rodríguez A, **Mosquera-Losada MR** (2021) Effect of the prescribed burnings and silvopasture on the carbon in the soil fractions in Galicia (NW Spain). 9<sup>TH</sup> International fire ecology and management congress. 30<sup>th</sup> November-1<sup>st</sup> December 2021, virtual event (**Oral presentation**).
2. **Mosquera-Losada MR**, Rodríguez-Rigueiro FJ, Ferreiro-Domínguez N, Álvarez-López V, Franco-Grandas TI, Rigueiro-Rodríguez A, Santiago-Freijanes JJ (2021) Sustainable development assessment on Grass-based circular business models for rural agri-food value chains (GO-GRASS). 17<sup>th</sup> International Conference on Environmental Science and Technology. 1<sup>st</sup> – 4<sup>th</sup> September 2021, Athens, Greece (**Oral presentation**).
3. **Mosquera-Losada MR**, Ferreiro-Domínguez N, Álvarez-López V (2021) Monitoring of soil Greenhouse Gases emissions from a controlled burnt area combined with guided herbivory. 17<sup>th</sup> International Conference on Environmental Science and Technology. 1<sup>st</sup> – 4<sup>th</sup> September 2021, Athens, Greece (**Oral presentation**).
4. Primucci D, Ferreiro-Domínguez N, Rigueiro-Rodríguez A, **Mosquera-Losada MR** (2021) Assessing the adaptability of maize varieties in silvoarable systems, a case study of Galicia region, Spain. 5<sup>th</sup> European Agroforestry Conference, 17<sup>th</sup>-19<sup>th</sup> May 2021, virtual event (**Oral presentation**).
5. Santiago-Freijanes JJ, Ferreiro-Domínguez N, Rodríguez-Rigueiro FJ, Rigueiro-Rodríguez A, **Mosquera-Losada MR** (2021). Improving silvopasture farming systems in highly biodiverse areas through the use of aerial images. 5<sup>th</sup> European Agroforestry Conference, 17<sup>th</sup>-19<sup>th</sup> May 2021, virtual event (**Oral presentation**).

## C.3. Research projects

1. **Project reference:** AE4EU 101000478. **Title:** Agroecology for EU. **Action type:** H2020-EC. **Coordinator name:** Alexander Wezel, ISARA, France. **Duration:** 01/01/2021-31/12/2022. **Financing:** 1999886.26 € and 151693.75 € for USC. USC is workpackage leader.
2. **Project reference:** Undertrees 872384. **Title:** Creating knowledge for UNDERstanding ecosystem services of agroforestry systems. through a holistic methodological framework. **Action type:** H2020-EC. **Coordinator name:** Giorgio Ragagnini, Scuola Superiore di Studi Universitari e di Perfezionamento S Anna, Italy. **Duration:** 01/01/2020-31/12/2024. **Financing:** 1228200 € and 92000 € for the USC. USC is workpackage leader.
3. **Project reference:** EUREKA 862790. **Title:** European Knowledge repository for best agricultural practices. **Action type:** H2020-EU. **Coordinator name:** Pieter Spahgnole, University of Gent, Belgium. **Duration:** 1/01/2020-31/12/2021. **Financing:** 2539922,5 € and 78125 € for the USC. USC was workpackage leader.
4. **Project reference:** Go-Grass 862674. **Title:** Grass-Based Circular Business Models for Rural Agri-Food Value Chains. **Action type:** H2020-EC. **Coordinator name:** Philipp Grundmann, Leibniz Institut Fuer Agrartechnik Und Biooekonomie E V, Germany.

- Duration:** 01/10/2019 a 30/09/2023. **Financing:** 9974522,50 € and 466250 € for the USC. USC is workpackage leader.
5. **Project reference:** EURAKNOS 817863. **Title:** Connecting Thematic Networks as Knowledge Reservoirs: towards a European Agricultural Knowledge Innovation Open Source System. **Action type:** H2020-EU. **Coordinator name:** Pieter Spahgnole, University of Gent, Belgium. **Duration:** 01/01/2019-31/12/2020. **Financing:** 2101286,25 € of which 118125 € for the USC. USC is workpackage leader.
  6. **Project reference:** Open2preserve SO E2/PS/E0804. **Title:** Modelo de gestión sostenible para la preservación de espacios abiertos de montaña. **Action type:** Interreg-SUDOE. **Coordinator name:** Rosa María Canals, University of Navarra, Spain. **Duration:** 01/03/2018-28/02/2021. **Financing:** 2.301.334,00 € and 188.000.00 € for the USC. USC is workpackage leader.
  7. **Project reference:** AFINET 727872. **Title:** Agroforestry Innovation Network. **Action type:** H2020-EU. **Coordinator name:** María Rosa Mosquera Losada, USC, Spain. **Duration:** 01/01/2017 a 31/12/2019. **Financing:** 1999987 € and 315021,25 € for the USC. USC was the coordinator.
  8. **Project reference:** LUGO+BIODINAMICO LIFE 14 CCA/ES/000489. **Title:** Lugo más Biodinámico. Planificación de un barrio multi-ecológico como modelo de resiliencia urbana. **Action type:** LIFE. **Coordinator name:** Antonio Rigueiro Rodríguez, USC, Spain. **Duration:** 18/01/2016-28/12/2020. **Financing:** 2101286.25 € and 118125 € for the USC. USC is the coordinator.
  9. **Project reference:** CTM20916-80176-C2-2-R. **Title:** Sistemas agroforestales para la producción de cereal como estrategia de adaptación y mitigación al cambio climático. **Action type:** Plan Nacional, RETOS, coordinated project. **Coordinator name:** María Rosa Mosquera Losada, USC, Spain. **Duration:** 01/01/2016-31/12/2020. **Financing:** 290400 € and 205700 € for the USC. USC was the coordinator
  10. **Project reference:** AGFORWARD 613520. **Title:** Agroforestry that will advance rural development. **Action type:** FP7-EU. **Coordinator name:** Paul Burgues, Carnfield University, UK. **Duration:** 01/01/2014-31/12/2017. **Financing:** 5994766 € and 268688 € for the USC. USC was workpackage leader.

#### C.4. Contracts, technological or transfer merits

1. Modelo de utilización e aproveitamento combinado no medio natural con minimización do impacto ambiental baseado na retención dos reflexos condicionados dos animais en extensivo. Xunta de Galicia-Asoporcel. Investigador Principal: Antonio Rigueiro Rodríguez. 01/01/2013-31/12/2015. 18.000 €
2. Sistemas silvopastorais con porco celta en soutos de castiñeiros: produtividade e efectos sobre a vexetación do sotobosque, o arborado e o solo. Xunta de Galicia-Sociedade Cooperativa Porco Celta O Incio. FEADER. Investigador Principal: Antonio Rigueiro Rodríguez. 2012-2014. 38.000 €
3. Evaluación de sistemas silvopastorales en una plantación intensiva de producción de maderas nobles situada en el término municipal de Arzúa. Bosques Naturales-Xunta de Galicia. Investigador principal: Antonio Rigueiro Rodríguez. 10/11/2010-31/12/2012. 25.000 €.
4. Estudo da eficiencia produtiva de distintos cruces de porco celta con aproveitamento silvopastoril. Coop. Porco Celta O Incio, S. Coop. Galega-Xunta de Galicia. Investigador principal: Antonio Rigueiro Rodríguez. 02/11/2010-01/01/2012. 18.000 €.
5. Empleo de residuos de origen agroindustrial e estabilizados mediante sistemas alcalino termicos en pradeiras: producción e medio ambiente. Agroamb Prodalt-Xunta de Galicia. Años 2010-2012 (10MRU002E). Investigador principal: María Rosa Mosquera Losada. 54337,5 €