



CURRICULUM VITAE (CVA)

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

Part A. PERSONAL INFORMATION

CV date April 2022

First name	Agustín		
Family name	Merino García		
Gender (*)	Male	Birth date (dd/mm/yyyy)	21/07/1964
Social Security, Passport, ID number	[REDACTED]		
e-mail	Agustin.merino@usc.es	URL Web https://www.uxafores.com/	
Open Researcher and Contributor ID (ORCID) (*)		0000-0003-3866-7006	

(*) Mandatory

A.1. Current position

Position	Full Professor		
Initial date	2018		
Institution	Universidad de Santiago de Compostela		
Department/Center	Soil Science and Agricultural Chemistry	Escuela Politécnica Superior de Ingeniería	
Country	España	Teleph. number	[REDACTED]
Key words	Agri-food waste, Soil organic matter, Soil GHG emissions, Soil restoration, Phosphorus		

A.2. Previous positions (research activity interruptions, art. 14.2.b))

Period	Position/Institution/Country/Interruption cause
1994-1995	Human Capital Mobil. Researcher/Un. Göttingen/ Germany
1996- 1998	Assistant teacher/USC/Spain
1998-2020	Professor
2020-	Full Professor

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
Graduate in Biology	University of Santiago de Compostela	1988
PhD Soil Science	Uni. Santiago de Compostela +Uni. Göttingen	1993

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

General indicators of quality of scientific production

Number of six-year terms (sexenios): 4 (Last one in 2016)

Number of "Transfer" six-year terms: 1 (1998-2003)

Thesis supervision: 10 (PhD), 20 (Master), 35 (Degree)

Scopus Author ID: 7203082676 h-index: 29
Number of publications JCR: 85

Research areas: soil restoration, capture of C in ecosystems, advanced techniques for studying organic matter and phosphorus.

Experience in implementation of circular economy: Responsible for the biomass ash valorization program for the sustainability of forest plantations, carried out with more than 6 Spanish national companies (FINSA, ENCE, NORVETO, AGMI, TABLICIA, TAFIBER) under a Circular Bioeconomy. 3 National project and 3 contracts funded.

Research projects as coordinator: National: 12 projects. UE projects: 4. EU fellowship: 1 Human Capital and Mobility Fellowship (Post-doctoral stay)

Knowledge transfer: More than 30 contracts with companies (Sologas, FINSA, ENCE, ENDESA, NORVENTO, XILOGA, Xunta de Galicia, CIS MADERA).
Member of the Biomass and Agroenergy Network.

Management experience

Former Deputy Vice-Chancellor for Research (USC)

Former Vice-Rector of International Relations (USC)

Member of the Spanish Ministry, as Bolonian Team Expert (2011-2012)

Coordinator of the International Doctorate Program in Agriculture and Environment.

Subject editor (soil and nutrition) in the European Journal of Forest Research (Q1)

Part C. RELEVANT MERITS

C.1. Publications

1. Rey-Salgueiro, L.; Omil, B.; Merino, A.; Martínez-Carballo, E.; Simal-Gandara, J. (2016). Organic pollutants profiling of wood ashes from biomass power plants linked to the ash characteristics. *The Science of Total Environment*, 544, 535-543.
2. Campo J.; Merino A. (2016). Variations in soil carbon sequestration and their determinants along a precipitation gradient in seasonally dry tropical forest ecosystems. *Global Change Biology*, 22, 1942-1956.
3. Merino, A; Omil B.; Hidalgo C; Etchevers JD, Balboa MA (2017). Characterization of the organic matter in fly ash and mixed wood ash to assess its recalcitrance in agricultural applications. *Land Degradation and Development*, 28, 2166–2175.
4. Santín C., Doerr, S.H., Merino, A.; Bucheli T. D.; Bryant, R.; Ascough, P.; Gao X.; Masiello, C. A. (2017). Carbon sequestration potential and physicochemical properties differ between wildfire charcoals and slow-pyrolysis biochars. *Scientific Reports*, 7, 11233.
5. Rey-Salgueiro, L.; Martínez-Carballo, E.; Merino, A.; Vega, J.A.; Fonturbel, M.T.; Simal-Gandara, J. (2017). Polycyclic aromatic hydrocarbons in soil organic horizons depending on the soil burnt severity and type of ecosystem. *Land Degradation and Development*, 29, 2112-2123.
6. Merino A.; Jiménez E.; Fernández, C.; Fontúrbel, M. T.; Campo, J.; Vega, J.A. (2019). Soil organic matter and phosphorus dynamics after low intensity prescribed burning in woodlands and shrublands. *Journal of Environmental Management*, 234, 214–225.
7. Hidalgo, C.; Merino, A.; Osorio-Hernández, V.; Etchevers, J.; Figueroa, B.; Limón, A.; Aguirre, E. (2019). Physical and chemical processes determining soil organic matter dynamics in managed Vertisols in semi-arid areas. *Soil & Tillage Research*, 194, 104348.
8. Kurganova, I.; Merino, A.; Lopes de Gerenuk, V.; Barros, N.; Kuzyakov, Y. (2019). Climate dependent mechanisms of carbon sequestration and stabilization by restoration of arable soils after abandonment. *Geoderma*, 354, 113882.
9. Campos, P., Miller, A. Z., Knicker, H., Costa-Pereira, M. F., Merino, A., & De la Rosa, J. M. (2020). Chemical, physical and morphological properties of biochars produced from agricultural residues: Implications for their use as soil amendment. *Waste Management*, 105, 256-267.

10. Albuquerque, A. R., Angélica, R. S., Merino, A., & Paz, S. P. (2021). Chemical and mineralogical characterization and potential use of ash from Amazonian biomasses as an agricultural fertilizer and for soil amendment. *Journal of Cleaner Production*, 295, 126472.

C.2. Congress

Congress organized

1. Managed forests in future landscapes. Coordinador. Internacional. Santiago, may 2011
2. Ecological restoration: education, training, communication and opportunities for employability. Coordinator. SERE 2018 Restoration in the Era of Climate Change. Reykjavik, 09/2018.
3. Encuentro iberoamericano de formadores en ciencias agrícolas y medioambientales. Funding: Xunta de Galicia. 10/2014.
4. Landcare for the future: the meeting point for educators and students-Summer Course. Funding: Erasmus + and USC. 2018.
5. Cambio Climático e Investigación. Funding: Gobierno de Guatemala. 10/2015. PI: A. Merino. 10.000 Eu

C.3. Research projects

1. Estudio de la estabilización del carbono en suelos agrícolas reforestados (AGL2009-13400-C05-04). Funding: Min. Sci. & Inn. 01/01/2010 31/12/2012. PI: A. Merino. 58.080 Eu.
2. Gestión y Producción Sostenible de Biorrecursos- Agrupación estratégica BioReDes (ED431E 2018/09). Funding: Xunta de Galicia. 2018- 2020. PI: P. Martínez. 405.759 Eu
3. Biochar y cenizas de biomasa. Estrategias de mitigación y adaptación de masas forestales al cambio climático (RTA20012-00048-00-00). Funding: INIA. 1/05/13-30/04/15. PI: N. Gartzia-Bengoetxea (NEIKER). 110.922 Eu
4. Stock de carbono en los suelos de España: respuesta al cambio climático y al cambio de uso (CGL2015-71958-REDT). Funding: Min. Sci. & Inn ("redes de excelencia"). PI: Pere Rovira 2012-2014. Centre tecnologic forestal de Catalunya. 30.000 Eu.
5. Carbono, nutrientes edáficos, bienes ecosistémicos asociados y modelos de simulación en sistemas agroforestales de Veracruz, México. Funding: Universidad Autónoma de Chapingo, México. 2012-2014. PI: E. Valdés (Un. Aut. Chapingo). 35.000 euros
6. Construcción de suelos artificiales a partir de la reutilización de residuos generados por la ciudad de México como una alternativa urbana Sostenible. Funding: Ciudad de México. 1/08/2016-1/07/ 2017. PI: Bruno Chavez-Vergara (UNAM, México). 50.000euros
7. C-in and C-outputs, rates and mechanisms of C-sequestration and C-stabilization of post-agrogenic soils – exemplified by Luvisol chronosequences of Russia. Funding: German Research Foundation (DFG 652 Research Projects 171/27-1). 2016-2019. PI: Irina Kurganova (Russian Science Academy and J. Kuzyakov (Un. Göttingen, Germany). 215.000 Eu
8. Climate smart use of Norwegian Organic soils (MYR) (no.281109). Funding: Resarch Council of Norway. 2017-2022. PI: Hanna Silvennoinen (NIBIO). 300.000 Eu.
9. Carbon sequestration from wildfires? Quantifying the role of pyrogenic carbon (RPG-2014-095). Funding: The Leverhulme Trust. 5/2014-5/2019. PI: Stefan Doerr (Swansea University, UK). 297.701 Eu
10. Vulnerabilidad integral de los sistemas forestales frente a incendios: implicaciones en las herramientas de gestión forestal "VIS4FIRE" (RTA2017-00042-C05-01). Subproyecto 2. Funding: INIA. 1/01/2018-31/12/2020. PI: M.T. Fonturbel (CIF Lourizán). 121.000 euros

C.4. Contracts, technological or transfer merits (Registered Software):

1. Realización de un estudio de mercado asociado a la valorización y a la comercialización de cenizas combustión de plantas de transformación de biomasa forestal (2011-CE408) Funding:: Norvento S.L and Xunta de Galicia. 22/12/2011 a 31/01/2011. PI: A. Merino. 25.440 Eu.
2. Revalorización de cenizas de biomasa forestal mediante la instalación de una planta piloto para la elaboración de fertilizantes específicos de alta calidad (2012-CE062) Entidad

financiadora: Norvento S. L and Xunta de Galicia. 01/01/2012 a 31/10/2013. PI: A. Merino. 27.538 EU.

3. Aplicación de los residuos de la industria del papel y de neumáticos fuera de uso para la construcción de terraplenes ecológicos aligerados y otros materiales de construcción-PANTERA (2013-CE118). Funding: ENCE, XILOGA + CYE + CDTI- MINECO- Feder-Interconecta). 22/10/2013 a 31/12/2014. PI: A. Merino. 94.001 Eu.
4. Generación de fertilizantes a partir de cenizas de biomasa. Funding: ENCE; FEADER-Xunta de Galicia. 1-9-2013/31-08-2015. PI: A. Merino. 124.455 euros
5. Elaboración de informes de canteras para planificar la restauración mediante la aplicación de tecnosuelos (2015-CE143). PI: A. Merino. Funding: XILOGA. 12/2014-/06/2015. 16.000 Eu.
6. Sistema portátil de generación termoeléctrica por gasificación de biomasa (pyrogaz). Funding: Norvento, S.L. + Allarluz CONECTA PEME. 07/2016-/03/2019. 33.150 Eu.
7. Biorestauro: Proyecto de optimización del proceso de elaboración de substratos orgánicos para la restauración de terrenos marginales (2016-CE291). Funding: Feder-Interconecta + Xilogal.. 15/08/2016- 31/10/2017. PI: A. Merino 45000 Eu.
8. Investigación nos parques naturais sobre captación de CO₂ e NO₂ por diferentes cultivos para contribuir a mitigar o Cambio Climático (2017-CP089) Funding: Xunta de Galicia. 10/08/2017-01/12/2017. PI: A. Merino. 41.322 Eu.
9. Convenio de colaboración para el desarrollo del proyecto de formación medioambiental en la escombrera de As Pontes (2017-CL003) Funding ENDESA. 03/05/2017-31/12/2017. PI: A. Merino. 33.275 Eu.
10. Composición química de los purines de diferentes explotaciones de ganado bovino y porcino de las comarcas de Deza y Terra Chá. 1/21-12/2021. Funding SOLOGAS-FEUGA. PI: A. Merino. 23.000 Eu.