



Programa de Doctorado en
INVESTIGACIÓN FORESTAL AVANZADA
MONTES-UPM
ETSI de Montes, Forestal y del Medio Natural



ACTIVIDAD INVESTIGADORA de DOCTORANDOS
en el programa de doctorado en INVESTIGACIÓN FORESTAL AVANZADA. AÑO 2018
(basada en la información proporcionada por los estudiantes)

Artículos:

Aguirre A, del Río M, Condés, S. 2018. Intra-and inter-specific variation of the maximum size-density relationship along an aridity gradient in Iberian pinewoods. *Forest Ecology and Management*, 411: 90-100. doi <https://doi.org/10.1016/j.foreco.2018.01.017>

De la Fuente B, Mateo-Sánchez M C, Rodríguez G, Gastón A, de Ayala R P, Colomina-Pérez D, Saura S. 2018. Natura 2000 sites, public forests and riparian corridors: The connectivity backbone of forest green infrastructure. *Land Use Policy*, 75: 429-441.
<https://doi.org/10.1016/j.landusepol.2018.04.002>

De la Fuente B, Saura S, Beck PS. 2018. Predicting the spread of an invasive tree pest: the pine wood nematode in Southern Europe. *Journal of Applied Ecology*, 55(5): 2374-2385.
<https://doi.org/10.1111/1365-2664.13177>

De la Fuente B, Beck P S. 2018. Invasive Species May Disrupt Protected Area Networks: Insights from the Pine Wood Nematode Spread in Portugal. *Forests*, 9(5): 282.
<https://doi.org/10.3390/f9050282>

Delso J, Martín B, Ortega E,. 2018. Assessing the effect of urban configuration on pedestrian mobility using network analysis and kernel density estimations. *Journal of Transport Geography*, 67: 61–72 doi 10.1016/j.jtrangeo.2018.02.001

Delso J, Martín B, Ortega E. 2018. Potentially Replaceable Car Trips: Assessment of Potential Modal Change towards Active Transport Modes in Vitoria-Gastei. *Sustainability*, 10(10). doi 10.3390/su10103510

Ezquerro M, Pardos M, Díaz-Balteiro L, 2018. Integrating variable retention systems into strategic forest management to deal with conservation biodiversity objectives. (Submitted to *Forest Ecology and Mangament*)

Fernández-Alonso MJ, Curiel Yuste J, Kitzler B, Ortiz C, Rubio A. 2018. Changes in litter chemistry associated with global change-driven forest succession resulted in time-decoupled responses of soil carbon and nitrogen cycles. *Soil Biology and Biochemistry*, 120: 200–211.
<http://doi.org/10.1016/j.soilbio.2018.02.013>

Fernández-Alonso MJ, Díaz-Pinés E, Ortiz C, Rubio A, 2018. Disentangling the effects of tree species and microclimate on heterotrophic and autotrophic soil respiration in a Mediterranean ecotone forest. *Forest Ecology and Management*, 430: 533–544.

<http://doi.org/10.1016/j.foreco.2018.08.046>

González E, Martínez-Fernández V, Shafroth P, Sher A, Henry A, Garófano-Gómez V, Corenblit D. 2018. Regeneration of Salicaceae riparian forests in the Northern Hemisphere: A new framework and management tool. *Journal of Environmental Management*, 218: 374 - 387. <https://doi.org/10.1016/j.jenvman.2018.04.069>

Marino E, Montes F, Tomé J L, Navarro JA, Hernando C. 2018. Vertical forest structure analysis for wildfire prevention: Comparing airborne laser scanning data and stereoscopic hemispherical images. *International Journal of Applied Earth Observation and Geoinformation*, 73: 438–449. doi: 10.1016/j.jag.2018.07.015.

Martinez S, Delgado MM, Marin RM, Alvarez S. 2018. The environmental footprint of an organic peri-urban orchard network. *Science of the Total Environment*. 636: 569–579. <https://doi.org/10.1016/j.scitotenv.2018.04.340>

Martinez S, Marchamalo M, Alvarez S. 2018. Organization environmental footprint applying a multi-regional input-output analysis: A case study of a wood parquet company in Spain. *Science of The Total Environment* 618: 7–14. <http://linkinghub.elsevier.com/retrieve/pii/S0048969717330231>.

Martínez-Fernández V, Van Oorhost M, De Smit J, González del Tánago M, Buijse Ad. 2018. Modelling feedbacks between geomorphological and riparian vegetation responses under climate change in a Mediterranean context. *Earth Surface Processes and Landforms*, 43 (9): 1825-1835. Doi: 10.1002/esp.4356

Masso-Aguado D, Diaz-Balteiro L. 2018. How much standardized is a country? Proposal of a synthetic index to measure the degree of standardization in a country. Awarded under IEC-IEEE-KATS Academic Challenge <https://www.iec.ch/newslog/2018/nr0918.htm> Publicación a determinar.

Mora-Márquez F, Vázquez-Poletti JL, López de Heredia U. 2018. NGScloud: RNA-seq analysis of non-model species using cloud computing. *Bioinformatics*, online published: 03 May 2018. doi <https://doi.org/10.1093/bioinformatics/bty363>

Moreno-Fernández D, Álvarez-González JG, Rodríguez-Soalleiro R, Pasalodos-Tato M, Cañellas I, Montes F, Díaz-Varela E, Sánchez-González M, Crecente-Campo F, Álvarez-Álvarez P, Barrio-Anta M, Pérez-Cruzado C. 2018. National-scale assessment of forest site productivity in Spain. *Forest Ecology and Management*, 417: 197-207. DOI 10.1016/j.foreco.2018.03.016

Moreno-Fernández D, Augustin N, Montes F, Sánchez-González M, Cañellas I. 2018. Modelling sapling distribution over time using a functional predictor in a generalized additive model. *Annals of Forest Science*, 75 (9). DOI 10.1007/s13595-017-0685-3

Moreno-Fernández D, Hevia A, Majada J, Cañellas I. 2018. Do common silvicultural treatments affect wood density of Mediterranean montane pines?. *Forests*, 9 (80). DOI 10.3390/f9020080

Moreno-Fernández D, Montes F, Sánchez-González M, Gordo J, Cañellas I. 2018. Regeneration dynamics of mixed stands of *Pinus pinaster* Ait. and *Pinus pinea* L. in Central Spain. *European Journal of Forest Research* 137: 17-27. DOI 10.1007/s10342-017-1086-8. DOI 10.1007/s10342-017-1086-8

Navarro JA, Fernández-Landa A, Tomé JL, Guillén-Climent M, Ojeda JC. 2018. Testing the quality of forest variable estimation using dense image matching: a comparison with airborne laser scanning in a Mediterranean pine forest. *International Journal of Remote Sensing*, 39(14): 4744-4760. doi: 10.1080/01431161.2018.1471551.

Yates, K. L., Bouchet, P. J., Caley, M. J., Mengersen, K., Randin, C. F., Parnell, S., ... & Dormann, C. F. 2018. Outstanding Challenges in the Transferability of Ecological Models. *Trends in ecology & evolution*.

Comunicaciones en congresos:

Delso J, Martín B, Ortega E. 2018. Evaluación del potencial de un cambio modal hacia modos activos de transporte en Vitoria-Gasteiz. XIII Congreso de Ingeniería del Transporte (CIT 2018). Gijón, España. 6-8 junio 2018. Comunicación oral.

Esteban J. 2018. Updating carbon stocks. 8th Advanced Training Course on Land Remote Sensing. Leicester, Reino Unido. 10-14 septiembre 2018. Póster.

Esteban J, Marchamalo M, Fernández-Landa A. 2018. Clear Cuts Mapping Using Landsat NDVI Time Series. Young Professionals Conference on Remote Sensing. Aachen, Alemania. 7-8 junio 2018. Comunicación oral

Esteban J, Marchamalo M, Fernández-Landa A. 2018. Uncertainty of volume estimates: propagating errors from forest mapping and regression models". IX Conference Italian Society of Remote Sensing. Florencia, Italia. 4-6 julio 2018. Comunicación oral.

Ezquerro M, Pardos M, Díaz-Balteiro L. 2018. Integración de sistemas de retención variable en un modelo de planificación estratégica mediante técnicas multicriterio. V Jornada de Jóvenes Investigadores. ETSI de Montes, Forestal y del Medio Natural. Madrid, España. 19 de Marzo, Semana Forestal 2018. Comunicación oral.

Fernández-Alonso MJ, Ortiz Oñate C, Díaz-Pinés E, Rubio A. 2018. Broadleaved-coniferous Mediterranean ecotone forest: linking seasonal dynamics of soil metabolic activity with shifts in plant phenology and leaf functional traits. EGU General Assembly. Viena, Austria. 8 - 13 de abril de 2018. Comunicación oral.

García de Jalón D, Martínez-Fernández V, Fazelpoor K, González del Tánago M. 2018. Riparian vegetation encroachment in mediterranean rivers. 12th International Symposium on Ecohydraulics. Tokio, Japan. 19-24 August 2018. Comunicación oral.

Martínez-Fernández V, González del Tánago M, García de Jalón D. 2018. Assessment of macroinvertebrates communities responses across regulated and non regulated sites. XIX Congresso da Associação Ibérica de Limnologia. Coimbra, Portugal. 24-29 June 2018. Comunicación oral.

Masso-Aguado D. 2018. Promoviendo la educación sobre estandarización en la universidad española. Foro UNE-EUE, IV Congreso Internacional en Normalización, Estándares y Calidad Universitaria (CINECU). Madrid, España. 6 de Junio 2018. Comunicación Oral

Masso-Aguado D. 2018. Education about Standardization, in Spain. Boosting ICT Business and Innovation: A Comprehensive Approach to Standardization Education in Europe, Sophia Antipolis. France. 4-5 October 2018. Comunicación Oral.
<https://www.etsi.org/news-events/events/1275-2018-10-boosting-ict-business-and-innovation-a-comprehensive-approach-to-standardization-education>

Masso-Aguado D. 2018. A bottom-up approach on education about standardization. The Spanish case. Standards Education Convention. Busan, Corea. 22-26 October 2018. Comunicación Oral.

Masso-Aguado D. 2018. How much standardized is a country? Presentation of the awarded papers. Standards Education Convention. Busan, Corea. 22-26 October 2018. Comunicación Oral.

Rubio A, Fernández-Alonso MJ, Díaz-Pinés E. Mecanismos del suelo implicados en las emisiones de dióxido de carbono en respuesta a un enriquecimiento en nitrógeno de los sistemas forestales. VI Workshop REMEDIA. Granada, España. 11-12 abril 2018. Comunicación oral.

Estancias en centros de investigación / universidades:

Delso Martínez, Javier. CartoGIS/Ghent University. Gante (Belgica). 16/08/2018 al 16/11/2018.

Martínez Fernández, Vanesa. UMR GEOLAB CNRS/ UCA/ UL (Laboratoire de géographie physique et environnementale/ Centre National de la Recherche Scientifique/ Université Clermont Auvergne. Clermont-Ferrand (France). 18/03/2018 al 28/04/2018.

Osuna Sequera, Carlos. Tecnalía Research & Innovation. Azpeitia (España). 11/03/2018 al 23/03/2018.