

Curriculum Vitae

March 2017

Prof. Yannis Raftoyannis

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Education and Employment

- Professor of Forest Protection, Eastern Macedonia and Thrace Institute of Technology (2015 - now).
- Professor of Forest Protection, Central Greece University of Applied Sciences (2012-15).
- Associate Professor, Department of Forestry, Central Greece University of Applied Sciences (2008-12).
- Assistant Professor, Department of Forestry, Central Greece University of Applied Sciences (2003-08).
- Forest Officer, Greek Forest Service, Region of Sterea Ellada (2002-03).
- Research Associate, Forest Research Institute, NAGREF, Greece (1997-02).
- Ph.D., School of Plant Sciences, University of Reading, UK (1994-99).
- Diploma in Forestry and Environmental Sciences, Aristotle University of Thessaloniki, Greece (1987-92).
- Lieutenant of Infantry, Greek Armed Forces (1986-89).

Administration

- Dean of the School of Agricultural Technology, Central Greece University of Applied Sciences (2014-15).
- Head of the Department of Forestry, Central Greece University of Applied Sciences (2014).
- Member of the Management Board of Central Greece University of Applied Sciences (2012-13).
- Member of the Research Committee of Central Greece University of Applied Sciences (2013-15).
- President of the Academic Quality Assessment Committee of the Department of Forestry (2009-13)
- Head of the Forest Protection and Management Unit of the Department of Forestry (2003-09).
- Academic responsible for European Exchange Programmes (2004-07).

Teaching

- Undergraduate courses in Forest Protection and Forest Fires (2000-now).
- Postgraduate course in Urban Tree Protection (2015 – now).
- Undergraduate and postgraduate courses in Mycology and Plant Pathology, University of Reading, UK (1994-97).
- Supervisor of 68 bachelor theses.

Evaluation

- Expert evaluator for the Horizon 2020 and 7th Framework Programme, European Cooperation in Science and Technology (COST), Greek Ministry of Agricultural Development, Romanian National Authority for Scientific Research and Innovation, etc.
- Reviewer in international scientific journals (Ecological Engineering, Forest Systems, Forestry, Journal of Plant Pathology, Plant and Soil, Plant Biosystems etc.).

Research interests

Forest and tree protection (forest fires, diseases, pests etc.), climate change (impacts on forests, adaptation, mitigation), restoration of degraded areas (reforestation, burned lands, roadsides, quarries), forest policy.

Projects

1. Vegetation mapping and biomass estimation with modern remote sensing methods in order to fulfil the country's obligations under the United Nations Framework Convention on Climate Change (UNFCCC) and the Kyoto Protocol. Thales, Ministry of Education, Greece (2012-15). (Research Group Leader)
2. Climate change and wildfires in fir forests. Archimedes III, Ministry of Education, Greece (2012-15). (coordinator)
3. The Pantavrehei Gorge. Region of Sterea Ellada (2012-13).

4. The monumental trees of Evritania. Municipality of Karpenisi (2012-13).
5. Restoration of burned ecosystems of Ileia Prefecture in a attempt to create a new balance between people and environment. European Economic Area and Norway Grants (2009-11).
6. A new European technology for cost efficient and environmental friendly production of pre-cultivated forest regeneration materials (PRE-FOREST). 6th Framework Programme, European Commission (2006-08).
7. Ecology of *Quercus ithaburensis* forests in Greece. Archimedes II, Ministry of Education, Greece (2005-06).
8. Climate change and sensitivity of annual growth of *Pinus halepensis* in Attica. Archimedes I, Ministry of Education, Greece (2004-07).
9. Decline of Greek fir. Archimedes I, EPEAK II, Ministry of Education, Greece (2004-07). (coordinator)
10. Selection criteria of forest seeds and planting stock for reforestation and urban planting. Archimedes I, Ministry of Education, Greece (2004-06).
11. Global Change in Mountain Regions: An Integrated Assessment of Causes and Consequences (GLOCHAMORE), GOCE-CT-2003-506679. 6th Framework Programme, European Commission (2003-05).
12. Eco-engineering and conservation of slopes for long-term protection from erosion, landslides and storms (ECOSLOPES). QLRT-2000-00289, 5th Framework Programme, European Commission (2001-04).
13. Forest research in the South Eastern European countries (FORESEE). QLAM-2000-00067, 5th Framework Programme, European Commission (2001).
14. Reforestation after wildfire: species selection and planting methods. Ministry of Agriculture, Greece (2000-01).
15. Estimation of evapotranspiration in planted trees and construction of a model for their water demand. Demeter 95, Ministry of Agriculture, Greece (2000).
16. Conservation and management actions in special protected areas in Greece. LIFE97/NAT/GR/004243. LIFE-Nature, European Commission (1998).
17. Research on the natural regeneration of *Pinus brutia* after wildfire, using field sampling and geographical information systems. Bilateral Cooperation, British Council (1997-99).
18. A European approach for assessing regrowth potential of woody plants: parameters for plant vitality and dormancy of planting stock. FAIR CT95-0497, 4th Framework Programme, European Commission (1997-99).

Member of European scientific cooperation actions (COST)

1. Pine pitch canker-strategies for management of *Gibberella circinata* in greenhouses and forests, FP1406 (2015-19).
2. Capacity Building in Forest Policy and Governance in Western Balkan Region, CAPABAL (2014-18).
3. Pathway Evaluation and Pest Risk Management in Transport, FP1002 (2010-14).
4. Expected Climate Change and Options for European Silviculture, FP0703 (2008-12).
5. Forest Management and the Water Cycle, FP0601 (2007-11).
6. Growing Valuable Broadleaved Trees, E42 (2004-08).

Publications in English

Citation overview

Scopus: 211 citations, *h-index* = 10.

Google Scholar: 338 citations, *h-index* = 11.

Ph.D. Thesis

1. Raftoyannis Y. 1999. "Comparative study of the patterns of encystment and pathogenicity of zoospores of *Phytophthora* and *Pythium* spp., on a range of axenically grown angiosperm roots". School of Plant Sciences, University of Reading, UK.

Book Chapters

1. Raftoyannis Y, Bredemeier M, Buozyte R, Lamersdorf N, Mavrogiakoumos A, Oddsdóttir E, Velichkov I. 2011. Afforestation Strategies with Respect to Forest–Water Interactions. In: Bredemeier M, Cohen S, Godbold DL, Lode E, Pichler V, Schleppei P. (eds). Forest Management and the Water Cycle. Ecological Studies, Vol. 212. Springer Dordrecht, Heidelberg-London-New York. p. 225-246.

Scientific Journals

1. Raftoyannis Y, Radoglou K, Bredemeier M. 2015. Effects of mistletoe infestation on the decline and mortality of *Abies cephalonica* in Greece. *Annals of Forest Research* 58:55-65.
2. Raftoyannis Y, Spanos I. 2015. Regeneration of *Abies cephalonica* Loudon after a large fire in Central Greece. *South-East European Forestry* 6: 5-14.

3. Mitsopoulos I, Raftoyannis Y, Bakaloudis D. 2015. Climate change, wildfires and fir forests in Greece: Perceptions of forest managers. *South-East European Forestry* 6: 143-157.
4. Raftoyannis Y, Nocentini S, Marchi E, Calama Sainz R, Garcia Guemes C, Pilas I, Peric S, Amaral Paulo J, Moreira-Marcelino Ana C, Costa-Ferreira M, Kakouris E, Lindner M. 2014. Perceptions of forest experts on climate change and fire management in European Mediterranean forests. *iForest* 7:33-41.
5. Brus R, Ballian D, Zhelev P, Pandža M, Bobinac M, Acevski J, Raftoyannis Y, Jarni K. 2011. Absence of geographical structure of morphological variation in *Juniperus oxycedrus* L. subsp. *oxycedrus* in the Balkan Peninsula. *European Journal of Forest Research* 130:657-670.
6. Radoglou K, Kostopoulou P, Raftoyannis Y, Dini-Papanastasi O, Spyroglou G. 2011. The physiological and morphological quality of *Pinus brutia* container seedlings produced from mini-plug transplants. *Plant Biosystems* 145:216-223.
7. Hemery GE, Clark JR, Aldinger E, Claessens H, Malvolti ME, O'Connor E, Raftoyannis Y, Savill PS, Brus R. 2010. Growing scattered broadleaved tree species in Europe in a changing climate: a review of risks and opportunities. *Forestry* 83: 65-81.
8. Spanos I, Raftoyannis Y, Platis P, Xanthopoulou E. 2010. Post-fire management and recovery of a pine forest in Greece. *Webecology* 10:27-31.
9. Raftoyannis Y, Spanos I, Radoglou K. 2008. The decline of Greek fir (*Abies cephalonica* Loudon): relationships with root condition. *Plant Biosystems* 142:386-390.
10. Spanos I, Ganatsas P, Raftoyannis Y. 2008. The root system architecture of young Greek fir (*Abies cephalonica* Loudon) trees. *Plant Biosystems* 142:414-419.
11. Raftoyannis Y, Radoglou K, Halivopoulos G. 2006. Ecophysiology and survival of *Acer pseudoplatanus* L. *Castanea sativa* Miller. and *Quercus frainetto* Ten. seedlings on a reforestation site in northern Greece. *New Forests* 31:151-163.
12. Raftoyannis Y, Dick MW. 2006. Effect of oomycete and plant variation on zoospore encystment and disease severity. *Journal of Plant Pathology* 88:93-99.
13. Raftoyannis Y, Dick MW. 2006. Effects of plant culture method, plant age, zoospore concentration and temperature on zoospore encystment of *Phytophthora* and *Pythium* species on plant roots. *Archives of Phytopathology and Plant Pathology* 39:69-77.
14. Raftoyannis Y, Dick MW. 2006. Zoospore encystment and pathogenicity of *Phytophthora* and *Pythium* species on plant roots. *Microbiological Research* 161:1-8.
15. Spanos I, Raftoyannis Y, Goudelis G, Xanthopoulou E, Samara T, Tsiontsis A. 2005. Effect of post-fire logging on soil and vegetation recovery in a *Pinus halepensis* Mill. forest of Greece. *Plant and Soil* 278:171-179.
16. Raftoyannis Y, Spanos I. 2005. Evaluation of log and branch barriers as post-fire rehabilitation treatments in a Mediterranean pine forest in Greece. *International Journal of Wildland Fire* 14:183-188.
17. Radoglou K, Raftoyannis Y, Halivopoulos G. 2003. The effects of planting date and seedling quality on field performance of *Castanea sativa* Mill. and *Quercus frainetto* Ten. seedlings. *Forestry* 76:569-578.
18. Raftoyannis Y, Radoglou K. 2002. Physiological responses of beech and sessile oak in a natural mixed stand during a dry summer. *Annals of Botany* 89:723-730.
19. Radoglou K, Raftoyannis Y. 2002. The impact of storage, desiccation and planting date on seedling quality and survival of woody plant species. *Forestry* 75:179-190.
20. Raftoyannis Y, Dick MW. 2002. Effects of inoculum density, plant age and temperature on disease severity caused by pythiaceus fungi on several plants. *Phytoparasitica* 30:67-76.
21. Spanos I, Radoglou K, Raftoyannis Y. 2001. Site quality effects on post-fire regeneration of *Pinus brutia* forest on a Greek island. *Applied Vegetation Science* 4:229-236.
22. Radoglou K, Raftoyannis Y. 2001. Effects of desiccation and freezing on vitality and field performance of broadleaved tree species. *Annals of Forest Science* 58:59-68.
23. Radoglou K, Raftoyannis Y. 2000. Contribution of forests and forestry to the mitigation of greenhouse effects in Greece. *Biotechnology, Agronomy, Society and Environment* 4:294-295.
24. Radoglou K, Raftoyannis Y. 2000. A comparative study of plant vitality tests and field performance of eleven tree species. *Phyton* 40:163-168.

Scientific Conferences

1. Mitsopoulos I, Raftoyannis Y, Bakaloudis D. 2015. Forest experts perceptions on fire management in fir forests of Greece under a changing climate. International Conference "Forestry: Bridge to the future", Sofia, Bulgaria, 6-9/5/2015, p.143.
2. Raftoyannis Y, Spanos I. 2014. Greek fir forests, fire and climate change. XXIV IUFRO World Congress, 5-11 October 2014, Salt Lake City, USA. *International Forestry Review* 16: 186.
3. Raftoyannis Y, Radoglou K, Bredemeier M. 2014. Mistletoe infestation of Greek fir forests. 44th Annual Conference of the Ecological Society of Germany, Austria and Switzerland, Hildesheim, Germany, 8-12/9/2014, p. 262.

4. Raftoyannis Y. 2012. Adaptive forest fire management in the Mediterranean Europe. International Conference "Tackling climate change: the contribution of forest scientific knowledge". Tours, France, 21-24/5/2012. p. 140.
5. Papadopoulos AM, Fotiadis G, Pantera A, Mertzanis Y, Raftoyannis Y, Goudelis G. 2011. Roadside forest vegetation in the Ilia Prefecture (W.Peloponnesus, Greece) after the devastating fires of 2007. Proceedings of the 12th International Conference on Environmental Science and Technology. Rhodes Island, Greece. 8-10/9/2011. pp. B827-834.
6. Raftoyannis Y. 2011. Water constraints on afforestation in the Mediterranean region. International Conference "Managed Forests in Future Landscapes", Santiago de Compostela, Spain, 8-11 May, p.43.
7. Raftoyannis Y. 2010. Forest Fires and Adaptation Options to Climate Change. 24th IUFRO Conference for Specialists in Air Pollution and Climate Change Effects on Forest Ecosystems, "Adaptation of Forest Ecosystems to Air Pollution and Climate Change", Antalya, Turkey, 22-26 March 2010, p.92.
8. Raftoyannis Y, Spanos I. 2009. Post-fire management in Greece. 18th International Symposium "Ecology and Safety", Burgas, Bulgaria, 8-12 June 2009. Journal of International Scientific Publication, Ecology and Safety, Volume 3, Part 1, p. 54-61.
9. Spanos I, Ganatsas P, Raftoyannis Y, Goudelis G. 2008. Root and stem systems of *Pinus brutia* Ten. saplings in burned and un-burned woodlands, northern Greece. 2nd International Conference on Ground Bio- and Eco-engineering, "The Use of Vegetation to Improve Slope Stability", Beijing, China, 14- 18 July 2008, p.72.
10. Raftoyannis Y, Spanos I. 2008. Eco-engineering after wildfires in Greece. 2nd International Conference on Ground Bio- and Eco-engineering, "The Use of Vegetation to Improve Slope Stability", Beijing, China, 14- 18 July 2008, p.54.
11. Spanos I, Ganatsas P, Raftoyannis Y, Goudelis G. 2008. Root and stem systems of *Pinus brutia* Ten. Saplings in burned and un-burned woodlands, northern Greece. Workshop on Woody Roots and Ecosystem Services. Lisbon, Portugal. 16-20/5/2008. p. R001.
12. Raftoyannis Y, Radoglou K, Spanos I. 2007. Decline of Greek fir: Relationships with root condition and mistletoe infection. 4th International Symposium on Physiological Processes in Roots of Woody Roots. University of Wales, Bangor, UK, 16-20/9/2007. p. 154.
13. Spanos I, Raftoyannis Y, Ganatsas P. 2007. The root system architecture of Greek fir. 4th International Symposium on Physiological Processes in Roots of Woody Roots. University of Wales, Bangor, UK, 16-20/9/2007. p. 113.
14. Pantera A, Raftoyannis Y, Papadopoulos A. 2007. Fir decline as a result of nutrient imbalance: preliminary results. Proceedings of the 10th International Conference on Environmental Science and Technology. Kos Island, Greece. 5-7/9/2007. pp. B556-562.
15. Papadopoulos A, Raftoyannis Y, Pantera A. 2007. Fir decline in Greece: A dendroclimatological approach. Proceedings of the 10th International Conference on Environmental Science and Technology. Kos Island, Greece. 5-7/9/2007. pp. B571-578.
16. Bellarosa R, Ciccarese L, Dini-Papanastasi O, Ferreira R, Kostopoulou R, Mattsson A, Radoglou K, Raftoyannis Y, Schirone B, Simeone M.C, Spyroglou G, Johansson P, Margheriti E, Rammos N. 2007. Pre-forest: a new European technology for cost efficient and environmental friendly production of pre-cultivated forest regeneration materials. Tree Biotechnology 2007, 3-8 June 2007, Ponta Delgada, Azores, Portugal. pp. 26.
17. Dini-Papanastasi O, Radoglou K, Kostopoulou P, Raftoyannis Y. 2007. Effects of mini-plug density, substrate and seed origin on germination and growth of black locust (*Robinia pseudoacacia* L.) seedlings. 4th International Symposium on Physiological Processes in Roots of Woody Roots. University of Wales, Bangor, UK, 16-20/9/2007. p. 65.
18. Raftoyannis Y, Spanos I, Radoglou K. 2006. Root growth and condition of declining and healthy fir trees in Central Greece. International Workshop "Woody root processes: Revealing the hidden half", Sede Boqer, Israel, 4-8 February 2006. pp. L-19.
19. Raftoyannis Y, Goudelis G, Papadopoulos A, Pantera A. 2006. Mistletoe infection affects the physiology of declining Greek fir trees. XV FESPB Congress. Federation of European Societies of Plant Biology. Palais des Congres, Lyon, France, 17-21 July 2006. p.190.
20. Raftoyannis Y, Papadopoulos A, Pantera A, Goudelis G. 2006. Decline of Greek Fir (*Abies cephalonica* Loudon). Impacts of Air Pollution and Climate Change on Forest Ecosystems. IUFRO Research Group 7.01. 22nd Biannual Meeting, Riverside, California, USA, 12-13 September 2006. p.32.
21. Raftoyannis Y, Papadopoulos A, Pantera A, Goudelis G. 2006. Decline of Greek Fir (*Abies cephalonica* Loudon) forests. In "Global Change in Mountains" Edited by Martin F. Price, Sapiens Publishing. Extended abstracts from the Open Science Conference "Global change in mountain regions", Perth, Scotland, UK, 2-6 October 2005. p. 132-133.
22. Raftoyannis Y, Spanos I. 2005. Post-fire rehabilitation of Greek forests. XXII IUFRO World Congress, 8-13 August 2005, Brisbane, Australia. International Forestry Review, Vol. 7(5), pp. 241.
23. Raftoyannis Y, Spanos I. 2005. Wildfire in forests of Greek fir. XXII IUFRO World Congress, 8-13 August 2005, Brisbane, Australia. International Forestry Review, Vol. 7(5), pp. 78.
24. Grabherr G, Pauli H, Brooker R, Brun JJ, Cortes M, Ertl S, Kaufmann R, Nagy L, Raftoyannis Y, Sarmiento L, Sieg B, Spehn E. 2004. Terrestrial ecosystems and global change monitoring. In: Lee C, Schaaf T. (eds.) Global

- Environmental and Social Monitoring – proceedings of the 1st International Thematic Workshop / EU FP-6 project GLOCHAMORE (May 9-11, 2004, Vienna, Austria) UNESCO: 46-49.
25. Raftoyannis Y, Dick MW. 2004. Comparative study of zoospore encystment and pathogenicity of *Phytophthora* and *Pythium* species on plant roots. 7th Conference of the European Foundation for Plant Pathology, University of Aberdeen, Scotland, 5 - 10 September 2004.
 26. Spanos I, Gouskou K, Raftoyannis Y, Goudelis G, Xanthopoulou E. 2004. Root architecture and topological characteristics of root systems of *Abies borissii-regis*, Central Greece. International Workshop "Woody root processes under a changing environment", 27-30 October 2004, Thessaloniki. pp. 60.
 27. Radoglou K, Raftoyannis Y, Halivopoulos G. 2003. The effect of planting date on field performance of *Castanea sativa* and *Quercus frainetto* seedlings. In: Ciccarese L., Lucci S., Mattsson A. (eds.). Proceedings of the International Conference "Nursery production and stand establishment of broad-leaves to promote sustainable forest management". Rome, Italy. pp. 243-251.
 28. Radoglou K, Raftoyannis Y. 2003. Diurnal changes in leaf gas exchange characteristics of broad – leaved species planted in Greece. High level Scientific Conference "Photosynthesis in a changing World". Crete, Greece, May 27 - June 3 2003. p. 29.
 29. Raftoyannis Y, Radoglou K, Halivopoulos G. 2003. Comparative study of physiological response of broadleaved species to transpiring stress. In: Ciccarese L., Lucci S., Mattsson A. (eds.). Proceedings of the International Conference "Nursery production and stand establishment of broad-leaves to promote sustainable forest management". Rome, Italy. pp. 105-113.
 30. Spanos I, Raftoyannis Y. 2002. Postfire management activities and their effects on *Pinus brutia* – *P.halepensis* forests. International Conference "Conservation, Regeneration and Restoration of Mediterranean Pines and their Ecosystems", MEDPINE 2, Chania, Crete, 8-13 September 2002. pp. 59.
 31. Spanos I, Zagas T, Raftoyannis Y, Tsitsoni T, Ganatsas P. 2002. Postfire natural regeneration of *Pinus brutia* in the Forest Park of Thessaloniki. International Conference "Conservation, Regeneration and Restoration of Mediterranean Pines and their Ecosystems", MEDPINE 2, Chania, Crete, 8-13 September 2002. pp. 60.
 32. Radoglou K, Raftoyannis Y, Halivopoulos G. 2002. Physiological response and field performance of three deciduous tree species after transplanting in Northern Greece. 13th Congress of the Federation of European Societies of Plant Physiology. Hersonissos, Crete, Greece, 2-6 September 2002, p. 621.
 33. Radoglou K, Raftoyannis Y. 2001. Forest research in the South Eastern European countries during the last decade. In: Radoglou K. (eds.). Proceedings of the International Conference "Forest Research: A challenge for an integrated European approach". Thessaloniki, Greece. pp. 27-34.
 34. Raftoyannis Y, Radoglou K. 2001. Crown condition of a fir forest in Karpenisi, Central Greece. In: Radoglou K. (eds.). Proceedings of the International Conference "Forest Research: A challenge for an integrated European approach". Thessaloniki, Greece. pp. 317-320.
 35. Radoglou K, Raftoyannis Y. 2001. Comparative physiological study of *Fagus sylvatica* and *Quercus petraea* in a natural mixed stand. In: Radoglou K. (eds.). Proceedings of the International Conference "Forest Research: A challenge for an integrated European approach". Thessaloniki, Greece. pp. 523-528.
 36. Spanos I, Raftoyannis Y, Tarsouna F. 2001. Assessing ecosystem rehabilitation after fire in an oak forest (N. GREECE). In: Proceedings of the Third Balkan Scientific Conference "Study, Conservation and Utilisation of Forest Resources". Sofia, Bulgaria. pp. 166-172.
 37. Radoglou K, Raftoyannis Y. 2000. Seasonal variation in physiological parameters of broadleaved seedlings during the first two years of field establishment. International Workshop "Development and ageing of forest trees", 20-24 September 2000, Florence, Italy. p. 19.
 38. Radoglou K, Raftoyannis Y. 1999. Diurnal patterns of photosynthesis of five tree species planted in field conditions. VIII European Ecological Congress (EURECO 99) "The European dimension in ecology: perspectives and challenges for the 21st century", European Ecological Federation, 18-23 September 1999, Halkidiki, Greece. p. 398.
 39. Radoglou K, Raftoyannis Y. 1999. A comparative study of plant vitality tests and field performance of eleven tree species. International Workshop "Root-soil interactions in trees", 8-12 September 1999, Gord-Martuljek, Slovenia. p. 60.
 40. Radoglou K, Raftoyannis Y. 1998. Photosynthesis response of a *Quercus frainetto* forest in Greece. Annual Meeting of the Society of Experimental Biology, 23-27 March 1998, York, UK. p. 34.