

Curriculum vitae

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Name:

MICHAEL S. VRAHNAKIS



Birth date: 17 October 1964
Birthplace: Chania – Crete
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Home address: Akadimias 65, Karditsa, GR-43100, Greece
Position: Assistant Professor (2008)
School Forestry and Management of Natural Environment,
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Specialization: Forester (1988), Ph.D. in Rangeland Ecology (Thesis:
Mathematical Models in the Study of Rangeland Vegetation
Dynamics – 2000)
Scientific interests: Biodiversity, Rangeland Management, Rangeland Ecology,
Rangeland Health
Courses: Rangeland Ecology (DAS 311)
Rangeland Management (DAS 614)
Professional & Environmental Ethics (DAS 618)
Seminar (DAS 713)

Research Projects

A. Involved as researcher

1. “Research for Rangeland Resource Management in the Metaxa’s Community – Prefecture of Kozani, Greece” – Aristotle University of Thessaloniki (cod. 4566, 1996).
2. “Rangeland Resource Development of the Endangered Sub-Saharan Savannah of Sokoto State of

- Nigeria, Africa. E.U. – STD3 NoT53*– CT.91 – 0011 – Aristotle University of Thessaloniki (cod. 2894, 1996).
3. “A European Approach for Assessing Regrowth Potential of Woody Plants”. E.U. – FAIR PL 95-497 – Forest Research Institute, Thessaloniki (1996 – 1997).
 4. “Productivity of Grazed Grasslands of Various Stages of Succession in Low Altitudinal Zone: an Ecophysiological Approach” – Aristotle University of Thessaloniki (cod. 1774, 1997 – 1998).
 5. “Agro-Meteorological Predictive Models for Forage Production and Quality in Several Rangelands of Northern Greece” Sub–Programme 8, B’ Communal Support Framework 1994 – 1999 – Forest Research Institute, Thessaloniki (1997 – 1999).
 6. “Husbandry Systems and Sustainable Social/Environmental Quality in Less Favoured Areas”. E.U. – FAIR1. PL95 048 – Forest Research Institute, Thessaloniki (1998 – 1999).
 7. “Defining Suitable Seed Mixtures for Soil Protection in the New Airport of Athens” – Aristotle University of Thessaloniki (cod. 9244, 1999).
 8. “DRASME – Desertification Risk Assessment in Silvopastoral Mediterranean Ecosystems”. E.U. – IC18 – CT98 – 0392 (1999 – 2002) – Aristotle University of Thessaloniki (cod. 9105, 1999 – 2002).
 9. “Rangeland Plants: Seed Improvement and Production” – Forest Research Institute, Thessaloniki (2000).
 10. “Grazing Stress Indicators in Mediterranean Shrublands” Bilateral Project (Greece – Spain) (2000 – 2001) – Aristotle University of Thessaloniki (cod. 1970, 2000 – 2001).
 11. “Special Rangeland Resources Management Plan for the Protected Area of Grammos Mountain, Greece” – Aristotle University of Thessaloniki (cod. 20094, 2000 – 2002).
 12. “GEORANGE – Geomatics in the Assessment and Sustainable Management of Mediterranean Rangelands”. E.U. – EVK2 – 2000 – 22089 – Aristotle University of Thessaloniki (cod. 20248, 2001 – 2004).
 13. “VISTA – Vulnerability of Ecosystem Services to Land Use Change in Traditional Agricultural Landscapes (2002–2004)”. E.U. – EVK2 – 2001 – 000356 – Aristotle University of Thessaloniki (cod. 21020, 2003).
 14. “Development of a Biodiversity Monitoring System for the Rangelands of the Protected Area of Grammos Mountain, Greece”. Hellenic Ministry of Environment, Physical Planning and Public Works – Aristotle University of Thessaloniki (cod. 21194, 2003 – 2004).
 15. “Role of Husbandry in the Protection and Development of the Rangeland Ecosystems and the Landscape in the Basin of Lake Koronia, Greece”. Pythagoras Programme, Hellenic Ministry of Education – Aristotle University of Thessaloniki (cod. 21893, 2004 – 2006).
 16. “Ecology of the Protected Valonia Oak Forests of Greece”. Archimedes Programme II, Hellenic Ministry of Education – Technological Educational Institute of Lamia (2005 – 2007).
 17. “Impact of Climate on the Ecophysiology, and Seed Dormancy, and Viability of Self-Reseeding Legumes”. Archimedes Programme II, Hellenic Ministry of Education – Technological Educational Institute of Kavala (2005 – 2007).

B. Supervised by M. Vrahnakis

1. "Inventory and Assessment of Riparian Forest and Pseudoalpine Rangeland and Forest Vegetation in the Prespa area of Greece and FYROM" – Technological Educational Institute of Larisa (cod. 557, 2009 – 2010).
2. "Registration, Assessment and Geographical Representation of the Rangeland and Forest Habitat Types of the Natura 2000 Sites: «National Forest of Prespa (GR 1340001)» and «Mount Varnous (GR 1340003)»" – Technological Educational Institute of Larisa (cod. 3770, 2010 – 2011).

Publications:

1. Ph.D. Thesis: **Vrahnakis M.S. 2000**. Mathematical Models in the Study of Rangeland Vegetation Dynamics. Department of Forestry and Natural Environment, Aristotle University of Thessaloniki, p. 173.
2. **Vrahnakis M.S.**, Z. Koukoura and A. Patakas. **1996**. Influence of irrigation and density in the production of two legume species under mixed conditions. *Acta Horticulturae*, 449(2):575-581.
3. Patakas A., D. Stavrakas and **M.S. Vrahnakis. 1996**. Influence of two different training systems on W.U.E. of grapevines. *Acta Horticulturae*, 449(2):461-466.
4. **Vrahnakis M.S.**, B. Noitsakis and Z. Koukoura. **1997**. The analysis of dynamic interaction in a legume binary mixture under controlled conditions of irrigation and clipping. Proceedings of XVIII International Grassland Congress. June 8 - 19, 1997. Winnipeg, Manitoba, Canada. Vol. I(7):11-12.
5. Radoglou K., I. Raftoyiannis, G. Chalyvopoulos and **M.S. Vrahnakis.1998**. Effect of storage type and time on *Acer pseudoplatanus* L. seedlings and their consequences on vitality and transplanting success. Department of Forestry and Management of Natural Environment, Aristotle University of Thessaloniki. Volume dedicated to the memory of Emer. Prof. Lukas G. Arvanitis. Scientific Abstracts, Vol. 41/1:507-521.
6. Koukoura Z., **M.S. Vrahnakis** and M. Karatassiou. **1999**. Effect of *Dactylis glomerata* and *Festuca ovina* on *Pinus brutia* seedling survival. *Grassland Science in Europe*, 4:181-185.
7. Merou Th. and **M.S. Vrahnakis. 1999**. Effects of kermes oak (*Quercus coccifera* L.) on understory plant species diversity and evenness in a Mediterranean-type shrubland. *Grasslands Science in Europe*, 4: 297-302.
8. Lazaridou M. and **M.S. Vrahnakis. 2000**. Combined effects of irrigation and cutting regimes on lucerne forage production. *Cahiers Options Mediterraneennes*, 45:293-297.
9. **Vrahnakis M.S.** B. Noitsakis, and Z. Koukoura. **2000**. The use of functional approach in the study of growth parameters of annual rangeland plants. Proceedings of the 2nd Pan-Hellenic Rangeland Congress, Hellenic Rangeland and Pasture Society. 4-6 October 2010, Ioannina, Greece.
10. Moridou D., A. Patakas and **M. Brachnakis. 2001**. The clipping effects on leaves productivity of *Lotus corniculatus* L. during the drought period. In: Proceedings of the International Conference:

Forest Research: A Challenge for an Integrated European Approach. K. Radoglou (ed.). 27 August – 1 September 2001, Thessaloniki, Greece, Vol. II, pp. 707-710.

11. Papanastasis V., I. Ispikoudis, **M.S. Vrahnakis**, K. Iovi, Y. Tsougrakis and D. Bousbouras. **2001**. Special Rangeland Resources Management Plan for the Protected Area of Grammos Mountain. Programme for Implementation of Management Plans In Grammos and Rodopi Mountains. Life 99NAT/GR/006498. 79 p. (+ Annexes).
12. Lazaridou M., **M.S. Vrahnakis** and B. Noitsakis. **2002**. Performance of legume-grass association in the field under drought and cutting conditions. *FAO/CIHEAM. REU Technical Series*, 64:157-162.
13. Papaioannou A.G., **M.S. Vrahnakis**, D.A. Alifragkis, V.P. Papanastasis, I. Ispikoudis and D.G. Seilopoulous. **2002**. Grazing impact on the soils of the zone of evergreen broadleaved vegetation in northern Greece. *Geotechnical Scientific Issues*, 13(1):17-27.
14. Papanastasis V.P., **M.S. Vrahnakis**, K. Iovi, P. Platis, A. Karalazos and I. Hatziminaoglou. **2002**. Dynamics of herbage production in a grazed mountain grassland in Greece. *Grasslands Science in Europe*, 7:348-349.
15. Lazaridou M., **M.S. Vrahnakis**, B. Noitsakis and S. Koutroumbas. **2002**. Interference effects within legume-grass association in the field under drought. Proceedings of the VII Congress of the European Society of Agronomy. July 15-18, 2002. Cordoba, Spain. pp. 105-106.
16. **Vrahnakis M.S.** **2002**. Prediction of flowering time in annual plants by an asymptotic non-linear growth model. Proceedings of 2002 World Conference on Natural Resource Modeling, June 23-26, 2002, Lesvos, Greece. Book of Abstracts. p. 59.
17. Sirkou D., C.L. Alados, **M.S. Vrahnakis**, V.P. Papanastasis, K. Iovi, M.L. Ginner and I. Ispikoudis. **2002**. Assessment of grazing effects on Mediterranean shrubs *Phillyrea latifolia* L. and *Cistus monspeliensis* L. by developmental instability and fractal dimension. *Journal of Mediterranean Ecology*, 3(4):19-29.
18. Papanastasis V.P., **M.S. Vrahnakis**, D. Chouvardas, K. Iovi, M.M. Berdeli and I. Ispikoudis. **2003**. Role of altitude and soil depth in the productive potential of natural grasslands of Macedonia, northern Greece. *Grasslands Science in Europe*, 8:21-24.
19. **Vrahnakis M.S.** **2003**. Modelling competition in annual clovers. *Grassland Science in Europe*, 8:499-502.
20. **Vrahnakis M.S.**, K. Iovi and M.M. Berdeli. **2003**. Managing the subalpine rangelands of Grammos mountain. Proceedings of the 3rd Pan-Hellenic Rangeland Congress "Rangeland Science and Development of Mountainous Areas". P.D. Platis, and Th.G. Papachristou (eds) 4-6 September 2002, Karpenissi, Greece, pp. 355-361.
21. **Vrahnakis M.S.**, A. Papageorgiou, E. Migdou, K. Iovi and M.M. Berdeli. **2003**. Changes of floristic diversity of the rangelands of Tymphristos Mountain according to its altitudinal gradient. Proceedings of the 3rd Pan-Hellenic Rangeland Congress "Rangeland Science and Development of Mountainous Areas". P.D. Platis, and Th.G. Papachristou (eds) 4-6 September 2002, Karpenissi, Greece, pp. 447-453.
22. Iovi K., **M.S. Vrahnakis** and V.P. Papanastasis. **2003**. Floristic diversity of the subalpine rangelands of Grammos Mountain. Proceedings of the 3rd Pan-Hellenic Rangeland Congress "Rangeland

- Science and Development of Mountainous Areas". P.D. Platis, and Th.G. Papachristou (eds) 4-6 September 2002, Karpenissi, Greece, pp. 463-468.
23. **Vrahnakis M.S.**, G. Goudelis, E. Papanikolaou and P. Voulgari. **2004**. Changes of plant species diversity due to slope exposure in the core area of Mount Parnassos National Park, Greece. Proceedings of the 10th International Conference on Mediterranean Climate Ecosystems (MEDECOS). Ecology, Conservation and Management of Mediterranean Climate Ecosystems. M. Arianoutsou, and V.P. Papanastasis (eds). 25 April – 1 May 2004, Rhodes Island, Greece.
 24. **Vrahnakis M.S.**, C.L. Alados, V.P. Papanastasis, K. Iovi, M.M. Berdeli and D. Sirkou. **2004**. Fire impact on plant species distribution in grazed maquis shrublands. Proceedings of the 10th International Conference on Mediterranean Climate Ecosystems (MEDECOS). Ecology, Conservation and Management of Mediterranean Climate Ecosystems. M. Arianoutsou, and V.P. Papanastasis (eds). 25 April – 1 May 2004, Rhodes Island, Greece.
 25. **Vrahnakis M.S.** and V.P. Papanastasis. **2004**. A Technical Guide for Monitoring Floristic Diversity of the Rangelands of Grammos Protected Areas. Hellenic Ministry of Environment, Physical Planning and Public Works. Programme for Protection of Environment and Sustainable Development. 54 p.
 26. Alados C.L., A. El Aich, V.P. Papanastasis, H. Ozbek, T. Navarro, H. Freitas, **M. Vrahnakis**, D. Larrosi and B. Cabezudo. **2004**. Change in plant spatial patterns and diversity along the successional gradient of Mediterranean grazing ecosystems. *Ecological Modelling*, 180:523-535.
 27. **Vrahnakis M.S.**, R. Fanlo and V.P. Papanastasis. **2005**. Effects of goat grazing on maquis-type shrublands. Proceedings of International Symposium on Animal Production and Natural Resources Utilisation in the Mediterranean Mountain Areas. 5-7 June 2003, Ioannina, Greece, pp. 120-123.
 28. Pantazopoulos Ch.I., **M.S. Vrahnakis**, D. Chouvardas, M. Papadimitriou and V.P. Papanastasis. **2005**. Rangeland health assessment in silvopastoral systems of northern Greece. In: Silvopastoralism and Sustainable Land Management. International Congress. M.R. Mosquera-Losada, J. McAdam and A. Rigueiro-Rodríguez (eds). CAB International, Oxfordshire, UK, pp. 281-282.
 29. **Vrahnakis M.S.**, A. Kyriazopoulos, G. Fotiadis, A. Sidiropoulou and A. Dionisopoulou. **2005**. Changes in components of floristic diversity in three adjacent rangeland types. *Grasslands Science in Europe*, 10:144-148.
 30. **Vrahnakis M.S.**, G. Fotiadis, D. Chouvardas, K. Mantzanas and V.P. Papanastasis. **2005**. Components of floristic diversity in kermes oak shrublands. *Grasslands Science in Europe*, 10:149-152.
 31. Imrichová Z. and **M.S. Vrahnakis**. **2005**. Revealing changes in biodiversity pattern by means of PFTs. *Grasslands Science in Europe*, 10:128-131.
 32. Lazaridou M. and **M.S. Vrahnakis**. **2005**. Cutting effects on persistence and sustainability of an alfalfa-tall fescue mixture. *Grassland Science in Europe*, 10:190-194.
 33. **Vrahnakis M.S.** G. Fotiadis, D. Chouvardas, K. Mantzanas, S. Plastargia and V.P. Papanastasis. **2005**. Species richness and diversity evolution along a secondary successional gradient. International Conference on Biodiversity Conservation and Sustainable Development in Mountain

- Areas of Europe: The challenge of interdisciplinary research. 20-25 September 2005, Ioannina, Greece (Book of Abstracts).
34. Chuvardas D., **M.S. Vrahnakis**, K. Mantzanas, I. Ispikoudis and V.P. Papanastasis. **2005**. Simulating land cover/use changes in a Mediterranean landscape with CLUE-S semi-empirical model. Conservation and Sustainable Development in Mountain Areas of Europe: The challenge of interdisciplinary research. 20-25 September, 2005, Ioannina, Greece, (Book of Abstracts).
 35. **Vrahnakis M.**, G. Fotiadis and K. Mantzanas. **2005**. Rangelands: condition and biodiversity. Proceedings of the conference «Rangelands and Environment in the Area of Lagadas, Greece», Laboratory of Rangeland Ecology, Aristotle University of Thessaloniki, 9 December 2005, Lagadas, Greece.
 36. **Vrahnakis M.S.**, G. Fotiadis, Th. Merou and S. Plastargia. **2006**. Genus *Trifolium* L. in Greece: distributional aspects and life traits. *Grassland Science in Europe*, 11:321-323.
 37. **Vrahnakis M.S.** and A. Kontogianni. **2006**. Empirical, seasonal, predictive models of production and cover of above ground biomass in relation to climatic parameters in a subalpine grassland of Tymfristos mountain – prefecture of Evrytania. Proceedings of the 4th Pan-Hellenic Rangeland Congress. “Rangelands of the lowland and midland Areas”. P.D. Platis, A.I. Sfouggaris, Th.G. Papahristou, and A.I. Tsiontsis (eds). 10-12 November 2004, Volos, Greece. pp. 167-173.
 38. Fotiadis G., **M.S. Vrahnakis** and Th. Merou. **2006**. Biotic, ecological and chorological analysis of representatives of the genus *Trifolium* in Greece. Proceedings of the 5th Pan-Hellenic Rangeland Congress: “Rangeland Science for Xerothermic Areas”. V.P. Papanastasis and Z.M. Parissi (ed.) 1-3 November 2006, Irakleio, Crete, Greece, pp. 93-98.
 39. Fotiadis G., A. Pantera, A. Papadopoulos and **M. Vrahnakis**. -**2006**. The vascular flora of *Quercus ithaburensis* ssp. *macrolepis* (Fagaceae) forest remnants found in Thrace (NE Greece). Pp. 417-423. Proceedings of IV Balcan Botanical Congress, Sofia, 20-26 June 2006.
 40. Merou Th., G. Fotiadis, S. Tsiftsis, K. Vidakis, **M. Vrahnakis**, I. Tsiripidis and V. Papanastasis. **2007**. Legumes of Northern Greece – Herbs, Shrubs. p. 224. Th. Merou (ed.). Photo/Graphs Studio, Drama, Greece. ISBN: 978-960-363-030-2.
 41. Chuvardas D., **M.S. Vrahnakis**, K. Mantzanas, I. Ispikoudis and V.P. Papanastasis. **2008**. Short term prediction of the evolution of land use/cover units of the landscape of Lake Koronia. 3rd Environmental Congress of Macedonia. 14-17 March 2008, Thessaloniki. (in CD format).
 42. **Vrahnakis M.S.**, P. Kostopoulou, M. Lazaridou, Th. Merou and G. Fotiadis. **2008**. Modelling growth responses of annual legumes to water shortage. *Options Mediterraneennes*, A(79):275-278.
 43. **Vrahnakis M.S.** and V.P. Papanastasis. **2008**. From range condition to rangeland health: New perspectives in the qualitative estimation of Mediterranean rangelands. Proceedings of the 6th Pan-Hellenic Rangeland Congress.: “Rangeland Science and Protected Areas”. K.Th. Mantzanas and V.P. Papanastasis (eds) 2-4 October 2008, Leonidio, Greece, pp. 161-166.
 44. Kazoglou Y.E. and **M.S. Vrahnakis**. **2008**. Networking of five LIFE-Nature projects in Greek Ramsar wetlands: Lessons learnt from vegetation management and monitoring activities. In: Proceedings (DVD format) of the 6th European Conference on Ecological Restoration. Towards a Sustainable Future for European Ecosystems: Providing Restoration Guidelines for Natura 2000

- Habitats and Species. Ghent (Belgium), 8-12 September 2008.
45. **Vrahnakis M.S. 2008.** Floristic diversity and cover of kermes oak shrubs. pp. 500-508. Proceedings of the 2^o Pan-Hellenic Congress of Animal Production Technicians. D. Kantas (ed.). 30/6-1/7 2008, Larissa, Greece.
 46. Chouvardas D. and **M.S. Vrahnakis. 2009.** A semi-empirical model for the near-future evolution of the lake Koronia landscape. *Journal of Environmental Protection and Ecology*, 10(3):867-876.
 47. **Vrahnakis M.S.**, M. Kadroudi, E. Kyriazi, D. Vasilakis, Y. Kazoglou and P. Birtsas. **2009.** Variation of structural and functional characteristics of grasslands in the foraging areas of the Eurasian black vulture (*Aegypius monachus* L.). *Grassland Science in Europe*, 14:269-272.
 48. **Vrahnakis M.S.** and G. Fotiadis. **2009.** Inventory and Assessment of Riparian Forest Vegetation of the Prespa Area of Greece and FYROM with the use of the (i) QBR (Qualitat del Bosc de Ribera / Riparian Forest Quality) Index, and (ii) Riparian Macrophyte Protocol (RMP). Final Report. Department of Forestry and Management of Natural Environment of the Technological Education Institute of Larissa, Society for the Protection of Prespa, Greece, 84p. (+ ANNEXES).
 49. Kostopoulou P., **M.S. Vrahnakis**, Th. Merou and M. Lazaridou. **2010.** Evidence for perennial-like adaptation mechanisms of annual legumes to limited irrigation. *Journal of Environmental Biology*, 31:311-314.
 50. **Vrahnakis M.S.**, G. Fotiadis, Th. Merou and Y.E. Kazoglou. **2010.** Improvement of plant diversity and methods for its evaluation in Mediterranean basin grasslands. *Options Méditerranéennes (A)*, 92:225-236.
 51. Fotiadis G., **M.S. Vrahnakis**, Th. Merou and K. Vidakis. **2010.** Ecology, chorology and commonness of the *Trifolium* taxa in Greece. *Feddes Repertorium*, 121(1-2):66-80.
 52. Kazoglou Y., G. Fotiadis, I. Koutseri and **M. Vrahnakis 2010.** Assessment of structural components of riparian forest vegetation of the Prespa basin with the means of the QBR index. Balwois 2010 Conference on Water Observation and Information System for Decision Support. Ohrid, FYROM, 25-29 May 2010.
 53. Fotiadis G., Y. Kazoglou, I. Koutseri, G. Efthymiou and **M. Vrahnakis. 2010.** Assessment of functional components of riparian forest of the Prespa basin with the means of the modified RMP protocol. Balwois 2010 Conference on Water Observation and Information System for Decision Support. Ohrid, FYROM, 25-29 May 2010.
 54. **Βραχνάκης M. 2010.** Uses and values of *Trifolium* taxa found in the flora of northern Greece. Proceedings of the 7th Pan-Hellenic Rangeland Congress.: "Rangeland Science and Life Quality". A. Sidiropoulou, K. Mantzanas and I. Ispikoudis (eds). 14-16 October 2010, Xanthi, Greece, pp. 25-30.
 55. Tsitra I., A. Taxos, G. Fotiadis, I. Kazoglou and **M. Vrahnakis. 2010.** Study of floristic diversity of the marshes of Metamorfosis of Sotiros, P. of Karditsa, Greece. Proceedings of the 7th Pan-Hellenic Rangeland Congress: "Rangeland Science and Life Quality". A. Sidiropoulou, K. Mantzanas and I. Ispikoudis (eds). 14-16 October 2010, Xanthi, Greece, pp. 135-140.
 56. **Vrahnakis M.S.**, G. Fotiadis and Y. Kazoglou. **2011.** Rangeland and forest habitat quality of the Prespa endemic trout after road improvement works. 4th Environmental Congress of Macedonia. 18-

20 March 2011, Thessaloniki. (in CD format).

57. **Vrahnakis M.S.**, G. Fotiadis and Y. Kazoglou. **2011**. Rangeland and forest habitat quality of the Prespa endemic trout after road improvement works. Proceedings of the 4th Environmental Congress of Macedonia. 18-20 March 2011, Thessaloniki. (in CD format).
58. Chouvardas D., **M. Vrahnakis**, D. Bousbouras, Ch. Evangelou, E. Lampou and L. Georgiadis. 2011. Modelling habitat suitability of agro-silvopastoral landscapes for Greek brown bear (*Ursus arctos*) in the “E65” branch of Egnatia Road. Proceedings of the 4th Environmental Congress of Macedonia. 18-20 March 2011, Thessaloniki. (in CD format).

International recognition

- Dr Vrahnakis' published work has met 34 citations in Scopus and 52 in Google Scholar.
- Dr Vrahnakis is a referee in the international journals *Rangeland Ecology and Management*, *Tuexenia*, *International Journal of Science and Technology Education Research*.
- Dr Vrahnakis is member of the 5-chaired Executive Committee of the European Dry Grassland Group (www.edgg.org) and responsible for its Mediterranean Sub-group (Med-DG).