Curriculum Vitae

Name: **Dionisiou Nina**

Gender: **Female**

Education:

- **PhD:**

PhD in Management of water and soil recourses
2010, School of Agriculture, Lab of Applied Soil Science, Aristotle University of Thessaloniki, Greece

- **M.Sc.:**

MSc in Management of water and soil recourses
2004, School of Agriculture, Lab of applied soil science, Aristotle University of Thessaloniki, Greece.

- **Bachelor** in Agricultural Studies, specialized in Fisheries and Aquaculture

2000, Agricultural University of Athens, Greece.

Current Position:

Agronomist, Scientific Collaborator

September 2003 – Present, **School of Agronomy**, Laboratory of Applied Soil Science, Aristotle University of Thessaloniki, Greece

Role in Current Position:

- ✓ Participation in the design and implementation of research projects (National and International) relevant to water and soil resources management, water quality, soil fertilization, water and soil restoration, environmental restoration, agricultural cultivations, soil and water sampling and chemical analysis.
- ✓ Co-teaching at undergraduate levels.

Previous Positions:

Agronomist, Scientific Collaborator

July 2001 - July 2002, Land **Reclamation Institute of National Agricultural Research Foundation**, Sindos, Thessaloniki, Greece

Role in the Position: Chemical analysis in water, soil and plant tissues

Fellowships/Prizes/Awards:

Fellowship: 2005 - 2009, State Scholarships Foundation (IKY) support of doctoral researchers, Aristotle University of Thessaloniki, Greece.

Supervision of graduate students and postdoctoral fellows:

Co-supervision of 2 undergraduate and 3 postgraduate students, 2013-2017, School of Agronomy, Aristotle University of Thessaloniki

Teaching Activities:

- 2008-2010, Assistant Teacher, School of Agronomy, Aristotle University of Thessaloniki, Greece. *Modules*: Problematic Soils, Restoration of Degraded Soils, Geology – Petrography
- 2008-Today, Assistant Teacher, School of Agronomy, Aristotle University of Thessaloniki, Greece. *Module*: Problematic Soils

Major Collaborations:

- Professor Emeritus Nikolaos Misopolinos, 2007-2017, **Laboratory of Applied Soil Science**, Department of Hydraulics, Soil Science and Agricultural Engineering, School of Agriculture , Aristotle University of Thessaloniki, Greece,

Research topics: water and soil quality, water and soil resources management, fertilization, water restoration, environmental restoration, use of zeolites for environmental issues, water, soil and plant tissues analysis, food protection, biotechnology, best agricultural practices for tree crops.

Research projects: more than 10 research projects some of them are:

"Assessment of nutrients, heavy metals and hydrodynamic soil properties for the wise use of water and fertilizers and the growth of safe products in the Region of Eastern Macedonia and Thrace"

"Development of an integrated system of Geoinformative soil data and delineation of the agricultural national zones"

"Merging hydrological models and Earth observation data for reliable information on water – MyWater"

"Designation of added value quality characteristics for agricultural products using molecular analysis, soil indicators and geoinformatics", Role in the projects: Work Package / Actions Responsible

- Professor Georgios Zalidis,

-2007-2017, **Laboratory of Remote Sensing and GIS**, Department of Hydraulics, Soil Science and Agricultural Engineering, School of Agriculture, Aristotle University of Thessaloniki.

Research topics: Agricultural and water resources monitoring and modeling using earth observation

Research project: "Action Programme of AUTH and Ministry of Environment Physical Planning and Public Works for the realization of Greek participation in Globe-Wetland Programme of the European Space Agency", Role in the project: member of the scientific team

-2015-2017, **Interbalcan Environment Center**

Research topic: Agricultural Practices with low environmental footprint.

Research project: "Common strategies for agricultural activities to implement spatially differentiated agricultural practices of reduced inflows",

Role in the project: member of the scientific team

- Professor Emeritus, Vasilakakis Miltiadis, 2012-2015, **Lab of Pomology, Department of Horticulture and Viticulture**, School of Agriculture

Research topic: Cultivation techniques, and production methods of horticulture products and vegetables

Research project: "Ozon application for improving post harvest handling of edible horticultural products".

Role in the project: member of the scientific team

- Professor Zoumboulis Anastasios, 2015, **Laboratory of Chemical and Environmental Technology**, Department of Chemistry, Aristotle University of Thessaloniki and Interbalcan Environment Center

Research topic: Analytical Chemistry.

Research project: "Soil degradation assessment and rehabilitation strategies for sustainable land use planning"

Role in the project: member of the scientific team

- **Private Sector**:

- Agricultural Cooperatives ALMME, ASEPOP NAOUSA, ASEPOP VELVENTOS, (2011-2015), MISIRIAN SA, SEKE SA, SOCOTAB, (2015-2017).

Research topic: soil and water resources management for tobacco cultivations, soil and water chemical analysis, creation of an online advisory fertilization software, agricultural products quality, biotechnology, best agricultural practices for tree crops .

Research projects:

"Designation of added value quality characteristics for agricultural products using molecular analysis, soil indicators and geoinformatics"

"Geodatabase of soil data from cultivated with oriental tobacco type areas", "Developing an Online Tool for the Fertilization Advisory Software, WEB GIS",

Assesing the viability of expanding the tobacco crop to areas of suitable soil-climatic conditions and comperative economic advantage"

Role in the projects: Work Package / Actions Responsible, member of the scientific team

Organization of Conferences, Workshops, Events:

- 2010, Conference for presenting the results of the research project "Assessment of nutrients, heavy metals and hydrodynamic soil properties for the wise use of water and fertilizers and the growth of safe products in the Region of Eastern Macedonia and Thrace", Komotini, Greece, **Role:** Member of the organize committee
- 2015, Conference for presenting the results of the research project "Designation of added value quality characteristics for agricultural products using molecular analysis, soil indicators and geoinformatics", Thessaloniki-Greece, **Role:** Member of the organize committee

Profile:

Dr. Nina Dionisou is a post-doctoral fellow researcher of School of Agriculture, at Aristotle University of Thessaloniki, after receiving her PhD in 2010. Her research interests focus on: i) water and soil quality, ii) water, soil and wastes management, iii) crop nutrition, iv) precision agriculture, v) fertilization, vi) environmental restoration, vii) use of zeolites for environmental issues, viii) water, soil and plant tissues analysis ix) food protection, x) best agricultural practices for crops. She has actively participated in the design; implementation and management of numerous research projects, at National and International level, while she has trained in project management as well; attending an e-learning, distant course in «Advanced Project Management - Professional Education». In addition, she has also collaborated with growers, farmers, landowners, public bodies and other entities. Her scientific experience is imprinted in 5 publications (at present) in books and scientific journals and 11 at National and International Conferences. Having the Scientific background by the MSc and PhD studies on *agricultural studies* and *water resources management*, respectively, and *aquaculture* by the bachelor studies, along with the experience gained from the continuous collaboration with other researchers, and also her additional strengths in time management, team working, and problem solving, provides her with the necessary capabilities and support her to thrive in this projects position.

Publications monographs/chapters/invited presentations, and/or products, services, or other achievements:

Peer Reviewed Journals

1. **Dionisiou N.**, Matsi Th., Misopolinos N. 2006. Use of magnesia for boron removal from irrigation Water. J. Environ. Qual. 35:2222-2228.
2. **Dionisiou N.**, Matsi Th., Misopolinos N. 2012. Phosphorus adsorption - desorption on surfactant modified natural zeolite: a laboratory study. Water air soil pollut. 224: 1362.
3. **Dionisiou N.**, Matsi Th., Misopolinos N. 2013. Removal of boron adsorption by surfactant modified zeolitic Tuff from Notheastern Greece**.** Journal of Agricultural science. Vol 5, 12:94-99.

Chapters in books

1. **N.S. Dionisiou** and T. Matsi. 2016. Chapter 23: Natural and surfactant-modified zeolite for the removal of pollutants (mainly inorganic) from natural waters and wastewaters. p. 591-606. In M.P.V. Prasad and K. Shih (eds.) Environmental Materials and Waste: Resource Recovery and Pollution prevention. Elsevier Inc., London.
2. Misopolinos N.**, Dionisiou N.,** et al.**,** 2015**.** Management Practices for Nutrients, in N.C. Brady και R.R. Weil. 2011, Εδαφολογία - Η φύση και οι ιδιότητες των εδαφών, Chapter 16, Athens: EMBRYO PUBLICATIONS, ISBN 978-960-8002-623, pp. 679-737.

International and National Conferences

1. **Dionisiou N.,** Th. Matsi and N.D. Misopolinos, 2004. Reduction B levels in irrigation water by the use of MgO, preliminary study. P. 361-368. In Proc. of 10^{h} National Soil Science Conference. 23-25/09/2004, Volos, Greece.
2. Takavakoglou B., C. Zalidis, Th. Alexandridis, E. Lazaridou, A. Panagopoulos G. Bilas, M. Tsiafouli, **N. Dionisiou**, P. Karachalios. 2005. The restoration of Lake Koronia as a model for the rehabilitation and management of wetland ecosystems in Mediterranean. Proceedings of the 5th National Conference of the Greek Committee for Water Resources Management (EEDYP), Democretus University of Thrace, 6 – 09/04/2005, Xanthi, Greece.
3. **Dionisiou N**., Th. Matsi and N.D. Misopolinos, 2006. B Adsorption on surfactant modified zeolite. Preliminary study. P. 157-167. In Proc. of 11^{h} National Soil Science Conference. 04-07/10/2006, Arta, Greece.
4. **Dionisiou N**., Matsi Th., and N. D. Misopolinos. 2008. Adsorption of P on surfactant modified zeolite. In Proc. of 12^{h} National Soil Science Conference. 24-27/09/2006, Pyrgos, Greece.
5. **Dionisiou N**., Matsi Th., and N. D. Misopolinos. 2010. THE SURFACTANT-MODIFIED NATURAL ZEOLITE AS A MEDIUM FOR P REMOVAL FROM IRRIGATION WATERS AND AQUATIC SYSTEMS. In Proc. of 13^{o} National Soil Science Conference. 20–22/10/2010, Larisa, Greece.
6. Bilas G., **Dionisiou N.,** Pantelidis G., Molasiotis A., Vasilakakis M., Silleos N. and Misopolinos N. 2012. IDENTIFICATION OF QUALITY CHARACTERISTICS OF TWO PEACH VARIETIES (PRUNUS PERSICA L.), USING SOIL INDICATORS, MOLECULAR ANALYSIS AND GEOINFORMATICS: PRELIMINARY RESULTS**.** In Proc. of 14^{o} National Soil Science Conference. 01–2/11/2012. Thessaloniki, Greece
7. Bilas G., **N. Dionisiou**, Th. Matsi and N. Misopolinos. 2012. Monitoring of soils irrigated with enriched waters with B and As, at the municipality of NewTriglia. In Proc. of 14^{o} National Soil Science Conference. 01–2/11/2012. Thessaloniki, Greece
8. Bilas G., Alexandridis Th., Cherif I., **Dionisiou N.**, Silleos N., Molasiotis A., Vasilakakis M., and Misopolinos N., 2014**.** EVALUATION OF SOIL CHARACTERISTICS IN AEREAS OF NOTHERN GREECE (AREAS OF VERIA, NAOUSA AND VELVENTOS) CULTIVATED WITH PEACH FRUITS, WITHIN THE PROJECT ABBREVIATED - "BIOTYPO". In Proc. of 15^{o} National Soil Science Conference. 26–28/11/2014. Patra, Greece.
9. Bilas G., Strati S., Cherif I., Vasiliou P., , Karamesouti M., , Ovakoglou G., , Pazarloglou M., Kladas E., Dionisiou N. , Karapetsas N. , Silleos N., ang Misopolinos N., 2014.

DEVELOPMENT OF AN INTEGRATED SYSTEM FOR SOIL GEOGRAPHICDATA AND DELINEATION OF AGRICULTURAL ZONES IN GREECE. ". In Proc. of 15^{o} National Soil Science Conference. 26–28/11/2014. Patra, Greece.

10. Zalidis G., Gitas I., Dionisiou N., Ntonou E., Tigas G., 2014. STRATEGIC DEVELOPMENT PLAN MAINLY ABOUT SOIL, WATER AND FOREST RESOURCES OF MUNICIPALITY OF ISLAND SKOPELOS USING GEOINFORMATICS. In Proc. of 15^{o} National Soil Science Conference. 26–28/11/2014. Patra, Greece.

11. Bilas G., **N. Dionisiou**, N. Karapetsas, N. Silleos, K. Kosmas, N. Misopollinos, 2016. Development of a national geodatabase (Greece) for soil surveys and land evaluation using space technology and GIS. Geophysical Research Abstracts Vol. 18, EGU2016-12889, 2016, EGU General Assembly 2016.

Teaching Notes

1. Bilas G., A. Tsirika, N. Dionisiou and N. Misopolinos, 2010. Lecture Notes in Problematic Soils Course. Laboratory of Applied Soil Science, School of Agriculture, Aristotle University of Thessaloniki, Greece.

National and International Research Projects

- Assessment of nutrients, heavy metals and hydrodynamic soil properties for the wise use of water and fertilizers and the growth of safe products in the Region of Eastern Macedonia and Thrace

(Contracted by the Prefecture of East Macedonia and Thrace to Aristotle University of Thessaloniki)

- Merging hydrological models and Earth observation data for reliable information on water - MyWater

(Contracted by EU-FP7, 2011-2013 to Aristotle University of Thessaloniki)

- Designation of added value quality characteristics for agricultural products using molecular analysis, soil indicators and geoinformatics

(Contracted by General Secretariat of Research and Technology to Aristotle University of Thessaloniki)

- Development of an integrated system of Geoinformative soil data and delineation of the agricultural national zones

(Contracted by Greek Payment and Control Agency for Guidance and Guarantee Community Aid to Aristotle University of Thessaloniki)

- Common strategies for agricultural activities to implement spatially differentiated agricultural practices of reduced inflows

(Contracted by European Regional Development Fund (ERDF) – Ministry of Education and Religious Affairs to Aristotle University of Thessaloniki)

- Ozon application for improving post harvest handling of edible horticultural products

(Contracted by the Misnistry of Education and Religious Affairs to Aristotle University of Thessaloniki)

- Project for resolving special environmental problems and functioning management systems of Falacro mountain protected area (GR1140004)

(Contracted by the Prefecture of East Macedonia and Thrace to Aristotle University of Thessaloniki)

- Action Programme of A.U.TH. and Ministry of Environment Physical Planning and Public Works for the realization of Greek participation in Globe - Wetland Programme of the European Space Agency

(Contracted by the Ministry of Environment, energy and climate change to Aristotle University of Thessaloniki)

- Geodatabase of soil data from cultivated with oriental tobacco type areas

(Contracted by the companies MISIRIAN, SEKE and SOCCOTAB to Aristotle University of Thessaloniki)

- Developing an Online Tool for the Fertilization Advisory Software – WEB GIS

(Contracted by the companies MISIRIAN, SEKE and SOCCOTAB to Aristotle University of Thessaloniki)

- Assessing the viability of expanding the tobacco crop to areas of suitable soil-climatic conditions and comparative economic advantage

(Contracted by the companies MISIRIAN to Aristotle University of Thessaloniki)

- Integrated monitoring system for desertification risk assessment

(Contracted by European Commission – and Ministry of finance to Aristotle University of Thessaloniki)

- Monitoring environmental parameters and creating decision support system in Lake Koronia

(Contracted by the Decentralized Administration of Macedonia nad Thrace to Aristotle University of Thessaloniki

- Soil analysis and monitoring

(Contracted by the Municipality of Triglia, Halkidiki, Greece to Aristotle University of Thessaloniki)