



**Vasileios Triantafyllidis, Agronomist BSc, MSc, PhD**

Date of Birth: 31/03/1974

Place of Birth: Agrinio, Greece

**Education:**

2001-2006 Ph.D. in Agricultural and Environmental Sciences. Department of Environmental and Natural Resources Management University of Ioannina, Greece. PhD Thesis title: «The soil behavior of modern pesticides in tobacco and maize cultivation and the effect on the flora».

1997-1998 MSc. (DEA) in Agricultural Sciences. Institut National Polytechnique de Lorraine, France. MSc Thesis title: «Use of porous cup to monitor pesticides in soil water at the experimental station of Kerlavic».

1997-1998 École Nationale Supérieure d’Agronomie et des Industries Alimentaires (ENSAIA), France. Graduated studies in Soil and Environment.

1992-1996 BSc. in Crop production. Department of Crop Production, Technological Educational Institute of Epirus.

**Work/ Experience**

2025 - Today Associate Professor, School of Agricultural Sciences, Department of Food Science & Technology, University of Patras, Greece. Knowledge Area: Pollution and management of soil and water resources in cultivated lands and effect on native flora

2022 - 2025 Assistant Professor, School of Agricultural Sciences, Department of Food Science & Technology, University of Patras, Greece. Knowledge Area: Pollution and management of soil and water resources in cultivated lands and effect on native flora

2022 – 2024 Assistant Professor, Interdepartmental Postgraduate Study Program titled “Precision Agriculture Applications” (EGA), Hellenic Open University.

2021–2022 Assistant Professor, Department of Business Administration of Food and Agricultural Enterprises, University of Patras.

2006–2016 Visiting lecturer. Department of Business Administration of Agricultural and Food Products, University of Patras.

2003-2011 Visiting lecturer. Faculty of Agricultural Technology, Technological Educational Institute of Messolongi.

2016–2021 Laboratory-Teaching Staff. Department of Business Administration of Food and Agricultural Enterprises, University of Patras.

2001-2016 Agriculturist, Technological Institute of Epirus, 2005-2007 posting in Department of Business Administration of Agricultural and Food Products, University of Ioannina-Patras. From 2008-2016, transfer to the Technological Institute of Messolongi.

2003 – 2007 Scientific and laboratory assistant of the Postgraduate Study Programme (PSP) leading to a master's degree in "Quality Agricultural Product Certification", University of Ioannina.

1999 - 2004 Scientific and laboratory assistant in Department of Business Administration of Food and Agricultural Enterprises, University of Ioannina.

Sep.1999- Jun.2003        Scientific & Laboratory assistant in Faculty of Agricultural Technology, Technological Educational Institute of Epirus.

## **Teaching/ Experience**

### **I. Teaching at undergraduate level:**

2021-today, Assistant Professor / Topics: Agricultural Production I & II, Biological Agriculture & Bio Foods (Undergraduate Study program)/ Department of Food Science & Technology/ University of Patras/ Greece

2021 – today, Assistant Professor / Topics: Environmental management, Precision Agriculture, Fertilizers & Plant Nutrient Management (Undergraduate Study program)/ Department of Business Administration of Food & Agricultural Enterprises / University of Patras, Greece

2021 – 2022 Assistant Professor / Topic: Agriculture pharmacology (Undergraduate Study program)/ Department of Plant Production Science/ University of Patras/ Greece

2006-2020 Visiting Lecture / Topics: Environmental management, Precision Agriculture, Fertilizers and plant production, Biological Agriculture and Stock Farming, Plant Morphology and

Physiology (Undergraduate Study program)/ Department of Business Administration of Food & Agricultural Enterprises/ University of Patras, Greece

2003-2011 Visiting Lecture / Topics: Plant Nutrient Management, Agriculture pharmacology (Undergraduate Study program)/ Faculty of Agricultural Technology/ Technological Educational Institute of Messolongi, Greece

1999-2003 Visiting Lecture / Topics: Agro chemistry, Agriculture pharmacology, Soil Science, Plant Nutrient Management (Undergraduate Study program)/ Faculty of Agricultural Technology/ Technological Educational Institute of Epirus, Greece

## **II. Teaching at Postgraduate level:**

2022-today, Assistant Professor / Topic: Modern Trends in Plant Production/ Postgraduate Study program: Precision Agriculture Applications/ Hellenic Open University/ Patras, Greece

2009-2013 Invited Lecturer/ Topic: Sustainable management of soil systems/ Postgraduate Study program: Agro chemistry and Organic Farming/ Department of Chemistry/ University of Ioannina/Greece

2003-2007 Teaching laboratory exercises to the students of the Postgraduate Programme (PSP) leading to a master's degree in "Quality Agricultural Product Certification", University of Ioannina.

## **Research/ Experience**

Research in Pesticide Science and Weed flora, particularly in areas such as: cropping systems and pesticides, phytotoxicity, weeds and cultivated fields. Processes of dispersion and distribution of pesticides in different parts of the biotic and abiotic environment. Identification and quantification of pesticides. Specialized research experience gained in the following activities:

Postgraduate studies (DEA) in France, a research project to study herbicide (a.i. atrazine, isoproturon, clopyralid & trifluralin) in the agro ecosystem. Porous cup was studied using radioisotopes, to certify them as samplers of plant protection products in soil water. Then they were placed and used in the experimental station of Kerlavic. The research took place at Ecole Nationale Supérieure d'Agronomie et des Industries Alimentaires, fellowship after consulting the Scientific Council of INPL.

PhD thesis at the University of Ioannina. The behavior of pesticides in agro-ecosystem, the weeds on crops, the impact of herbicides on weeds and the phytotoxicity on cultivated plants,

as well as the processes of dispersion and distribution of plant protection products in different parts of the biotic and abiotic environment were studied.

Postdoctoral Research in the laboratory of Crop production at the Department of Business Administration of Agricultural and Food Products (University of Ioannina) on: the behavior of pesticides in agro-ecosystem and weed flora, systems of organic and conventional farming, management of irrigation water and fertilization, cultivation of energy plants.

### **Research projects:**

2025-2026 Use of digital twin technology in agricultural production AgroDigital, YP3TA-0560506 Scientific Director: Patakas Angelos. Food Science & Technology School of Agricultural Sciences at the University of Patras.

2026 Holistic improvement of kiwifruit cultivation in our country KIWITRANSFORM, YP3TA-0560508 Scientific Director: Patakas Angelos. Food Science & Technology School of Agricultural Sciences at the University of Patras.

2021-2023 Pesticides in Europe During the Twenty-first Century: a Comparative Assessment Using Agri-environmental Indices of EU<sub>27</sub> MEDICUS of the University of Patras “ΜΟΔΥ ΕΛΚΕ”, research.upatras.gr; under Grant Agreement No 81667. Principal Investigator and Co-ordinator.: Associate Professor Triantafyllidis Vasilis, Department of Business Administration of Agricultural and Food Products, University of Patras.

2022-2023 Innovative Methodological Tools for Traceability, Certification and Authenticity Control of Olive Oil and Olive [ΕΛΑΙΩΝ] MIS 5075094/T2ΕΔΚ-02637. Research Fellow. Project Manager: Professor Patakas Angelos, Department of Business Administration of Agricultural and Food Products, University of Patras.

2019-2021 SmartOliveGrove, smart farming services for improved olive production in Western Greece. The project is carried out within the framework of the “Aiding Enterprises for research projects” Action and is co-funded by the European Union and national resources through the “WESTERN GREECE 2014-2020 Operational Programme, project code: ΔΕΡ6-0021056”. Research Fellow. Project Manager: Professor Patakas Angelos, Department of Business Administration of Agricultural and Food Products, University of Patras.

2018-2021 Precision farming methodology for optimizing Asparagus cultivation Management Efficiency. Research Fellow. Project Manager: Professor Patakas Angelos, Department of Business Administration of Agricultural and Food Products, University of Patras.

2011-2013 Dissipation, transport of selected pesticides in soil-water systems and the impact on soil microorganisms and self-sown flora in experimental field cultivations of energy crops (PEST-SOW-E-CROP), Archimedes Project. Research Fellow. Project Manager: Manos Georgios TEI EPIRUS.

2005 -2008 PENED: Research Fellow, Project Title: A new technical approach for optimizing irrigation production system. Research Fellow. Project Manager: Associate Professor Patakas Angelos, Department of Business Administration of Agricultural and Food Products, University of Ioannina

2005-2008 PENED: Research Fellow, Project title: Development of methodology for controlling and minimizing the residual nitrates and heavy metals in leafy vegetables. Research Fellow. Project Manager: Professor Salahas George, Technological Institute of Messolongi.

2005-2007 Archimedes II: Research Fellow, Project Title: Control of nitrate levels in water and leafy vegetables in Aitolokarnania region, Greece. Research Fellow. Project Manager: Professor Salahas George, Technological Institute of Messolongi.

2000-2001 INTEREC II: Research Fellow, Project Title: Training in agricultural issues with multimedia and the Internet. Research Fellow. Scientific Director: Professor Dimitrios Savvas Agricultural University of Athens.

1998-2000 TAB-RES-INFO 96/T/35: Research Fellow Program TAB-RES-INFO 96/T/35 «Monitoring and minimizing heavy metal contents in tobacco». Research Fellow. Scientific Director: Professor Nicholas Malisiovas Technological Institute of Epirus.

1995 GISIPA, BOLONIA, participation in a research program on: production of certified seed potatoes, viral diseases, and cultivation techniques. Supervisor of my dissertation at undergraduate level: Professor George Manos GISIPA, BOLONIA, Italy.

## **Publications**

### **Publications in international refereed journals**

1. **Triantafyllidis V.**, Hela D., Dimopoulos D., Albanis T. (2006). Imidacloprid losses in surface runoff from plots cultivated with tobacco. *Intern. J. Environ. Anal. Chem.* 86, 185-194.
2. **Triantafyllidis V.**, Hela D., Salahas G., Dimopoulos P., Albanis T. (2006). Carbofuran losses in surface runoff from plots cultivated with maize. *Journal of Environmental Protection and Ecology* 7 (2), 347-356.

3. **Triantafyllidis V.**, Bilalis D., Hela D., Dimopoulos D., Albanis T., Efthimiadou A. (2006). Combination effect of soil slope and rimsulfuron action on weed flora and phytotoxicity on maize crop under Mediterranean condition. *Journal of Food Agriculture & Environment* Vol. 4 (3&4), 167-170.
4. **Triantafyllidis V.**, Papasavvas A., Hela D., Salahas G. (2008). Comparison of nitrate content in leafy vegetables conventionally and organically cultivated in Western Greece. *Journal of Environmental Protection and Ecology* 9 (2) 301-308.
5. Papasavvas A., **Triantafyllidis V.**, Zervoudakis G., Kapotis G., Samaras Y., Salahas G. (2008). Correlation of SPAD-502meter readings with physiological parameters and leaf nitrae content in *Beta vulgaris*. *Journal of Environmental Protection and Ecology* 9 (2) 351-356.
6. Bilalis D., Karkanis A., Efthimiadou A.; Konstantas A., **Triantafyllidis V.** (2009). Effects of irrigation system and green manure on yield and nicotine content of Virginia (flue-cured) Organic tobacco (*Nicotiana tabacum*), under Mediterranean conditions, *Industrial Crops & Products* 29 (2-3), 388-394.
7. **Triandafyllidis V.**, Hela D., Salahas G., Dimopoulos P., Albanis T. (2009). Dissipation of Pendimethalin in soil and runoff water in field cultivated with tobacco, *Water Air and Soil Pollution* 253-264.
8. **Triandafyllidis V.**, Manos S., Hela D., Manos G., Konstantinou I. (2010) Persistence of Trifluralin in oilseed rape fields in Western Greece, *Intern. J. Environ. Anal. Chem.* 90, 344-356.
9. Bilalis D., Karkanis A., **Triantafyllidis V.**, Ladavos A., Bizos D., Patsiali S., Efthimiadou A., Papatheohari. Y. (2010). Effects of organic and inorganic fertilization on growth, yield and nicotine content of flue-cured and oriental tobacco (*Nicotiana tabacum* L.) seedlings grown in organic and conventional float system, *Journal of Food Agriculture & Environment* 8 (2) 585-589.
10. Bilalis D., Karkanis A., Konstantas a., Patsiali S., **Triantafyllidis V.** (2011). Arbuscular Mycorrhizal Fungi: A Blessing or A Curse for Weed Management in Organic Olive Crops, *Australian Journal of Crop Science* 5 (7), 858-864.
11. Bilalis D., Karkanis A., Patsiali S., Agriogianni M., Konstantas a., **Triantafyllidis V.** (2011). Performance of wheat varieties (*Triticum aestivum* L.) under conservation tillage practices in organic agriculture, *Notulae Botanicae Horti Agrobotanici Cluj-Napoca* 39 (2), 28-33.
12. Leneti E., **Triantafyllidis V.**, Bilalis D., Yfanti P., Hela D., Manos G. (2011). Crop parameters of oilseed rape varieties for biofuel production under Mediterranean conditions, *Journal of Environmental Protection and Ecology* 12 (2), 629-635.

13. **Triantafyllidis V.**, Hela D., Papadaki M., Bilalis D., **Konstantinou I.** (2012). Evaluation of Mobility and Dissipation of Mefenoxam and Pendimethalin by Application of CSTR Model and Field Experiments Using Bare and Tobacco Tilled Soil Columns, *Water Air and Soil Pollution* 223 (4), 1625-1637.
14. Bilalis D. , Kakabouki I., Karkanis A., Travlos I., **Triantafyllidis V.**, Hela, D. (2012). Seed and saponin production of organic quinoa (*Chenopodium quinoa* Willd.) for different tillage and fertilization, *Notulae Botanicae Horti Agrobotanici Cluj-Napoca* 40 (1), 42-46.
15. Bilalis D., **Triantafyllidis V.**, Karkanis A., Efthimiadou A., Kakabouki I. (2012). Effect of tillage system and rimsulfuron application on weed flora, arbuscular mycorrhizal (AM) root colonization and yield of maize (*Zea mays* L.) *Notulae Botanicae Horti Agrobotanici Cluj-Napoca* 40 (2), 73-79.
16. **Triantafyllidis V.**, Hela, D., Patakioutas, G. (2013). Environmental behavior of the fungicide metalaxyl in experimental tobacco field, *Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes* 48 (9) , 747-757.
17. Kosma C., **Triantafyllidis V.**, Papasavvas A., Salahas G., Patakas A. (2013). Yield and nutritional quality of greenhouse lettuce as affected by shading and cultivation season, *Emir. J. Food Agric.* 25(12) 974-979.
18. Stamatis N., Hela D., **Triantafyllidis V.**, Konstantinou I. (2013). Spatiotemporal variation risk assessment of pesticides in water of the lower catchment basin of Acheloos River, Western Greece, *The Scientific World Journal* doi: 10.1155/2013/231610.
19. Stamatis N., **Triantafyllidis V.**, Hela D., Konstantinou I. (2013). Occurrence and distribution of selected pharmaceutical compounds on sewage-impacted section of River Acheloos, Western Greece, *Intern. J. Environ. Anal. Chem.* 93 (15), 1602-1619.
20. Efthimiadou A., Katsenios N., Karkanis A., Papastylianou P., **Triantafyllidis V.**, Travlos I., Bilalis D. (2014). Evaluation of the effects of pre-sowing magnetic treatment of tomato seed on growth, yield and quality characteristics, *The Scientific World Journal* doi: 10.1155/2014/369745.
21. **Triantafyllidis V.\***, kontogergos A., Kosma C., Patakas A. (2018). An Assessment of the Soil Quality Index in a Mediterranean Agro Ecosystem, *Emir. J. Food Agric.* 30 (12), 1042-1050.
22. **Triantafyllidis V.\***, Zotos A., Kosma C., Kokkotos E. (2020). Environmental implications from long term citrus cultivation and wide use of Cu-fungicides in Mediterranean soils *Water, Air, & Soil Pollution* 231 (5), 1-17

23. **Triantafyllidis V.\***, Zotos A., Kosma C., Kokkotos E. (2020). Effect of land use on edaphic properties and biodiversity in Mediterranean European agroecosystem. *Saudi Journal of Biological Sciences* 27 (12), 3676-3690.
24. **Triantafyllidis V.\***, Zotos A., Kosma C., Kehayias G., Pittaras A., Drougas P. (2021). Changes in plant species diversity as affected by shading conditions and continuous agricultural practices in kiwifruit orchards *Emir. J. Food Agric.* 33 (11),
25. Vasilopoulou G., Kehayias G., Kletou D., Kleitou P., **Triantafyllidis V.**, Zotos A., Antoniadis K., Rousou M., Papadopoulos V., Polykarpou P., Tsiamis G. (2021). Microplastics Investigation Using Zooplankton Samples from the Coasts of Cyprus (Eastern Mediterranean) *Water* 13 (16), 2272.
26. Thomidis, T., Goumas, D. E., Zotos, A., **Triantafyllidis, V.**, & Kokotos, E. (2021). Susceptibility of twenty-three kiwifruit cultivars to *Pseudomonas syringae* pv. *actinidiae*. *Engineering Proceedings* 9(1), 33.
27. Zotos A., Kosma C., **Triantafyllidis V.**, Kakabouki I., Kehayias G., Roussis I., Mavroeidis A., Tataridas A., Bilalis D. (2021). Plant species diversity of the wet meadows under natural and anthropogenic interventions: The case of the Lakes Amvrakia and Ozeros (W. Greece). *Notulae Botanicae Horti Agrobotanici Cluj-Napoca* 49 (3), 12435-12435.
28. **Triantafyllidis, V.\***, Kosma, C., Karabagias, I. K., Zotos, A., Pittaras, A., & Kehayias, G. (2022). Fungicides in Europe During the Twenty-first Century: a Comparative Assessment Using Agri-environmental Indices of EU27. *Water, Air, & Soil Pollution* 233(2), 1-20.
29. Roussis, I., Kakabouki, I., Beslemes, D., Tigka, E., Kosma, C., **Triantafyllidis, V.**, ... & Bilalis, D. (2022). Nitrogen Uptake, Use Efficiency, and Productivity of *Nigella sativa* L. in Response to Fertilization and Plant Density. *Sustainability* 14(7), 3842.
30. Kosma, C., **Triantafyllidis, V.\***, Zotos, A., Pittaras, A., Kouneli, V., Karydogianni, S., ... & Bilalis, D. (2022). Assessing Spatial Variability of Soil Properties in Mediterranean Smallholder Farming Systems. *Land* 11(4), 557.
31. Kakabouki, I., Beslemes, D., Tigka, E. L., Roussis, I., Mavroeidis, A., Kouneli, V., ... & **Triantafyllidis, V.** (2022). Performance of fourteen genotypes of durum wheat under Eastern Mediterranean conditions. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca* 50(1), 12682-12682.

32. Darawsheh, M.K.; Beslemes, D.; Kouneli, V.; Tigka, E.; Bilalis, D.; Roussis, I.; Karydogianni, S.; Mavroeidis, A.; **Triantafyllidis, V.**; Kosma, C.; Zotos, A.; Kakabouki, I. (2022). Environmental and Regional Effects on Fiber Quality of Cotton Cultivated in Greece. *Agronomy* 12, 943.
33. Roussis I., Beslemes D., Kosma C., **Triantafyllidis V**, Zotos A., Tigka E. Mavroeidis A., Karydogianni S., Kouneli V., Travlos, I., Kakabouki I. (2022). The Influence of Arbuscular Mycorrhizal Fungus *Rhizophagus irregularis* on the Growth and Quality of Processing Tomato (*Lycopersicon esculentum* Mill.) Seedlings. *Sustainability* 14(15), 9001.
34. Efthimiou, I., Vlastos, D., **Triantafyllidis, V.**, Eleftherianos, A., & Antonopoulou, M. (2022). Investigation of the Genotoxicological Profile of Aqueous *Betula pendula* Extracts. *Plants* 11(20), 2673.
35. Stavropoulos, P., Roussis, I., Kakabouki, I., Mavroeidis, A., Zotos, A., **Triantafyllidis, V.**, ... & Tsela, A. (2022). Influence of urea fertilization with and without inhibitors on growth and yield of safflower (*Carthamus tinctorius* L.) under different tillage practices. *Bull. Univ. Agric. Sci* 79, 90-94.
36. Patakas, A., **Triantafyllidis, V.**, Kokkotos, E., Zotos, A., Michos, K., Karaboiki, K., & Chatzipapadopoulos, F. (2022). Irrigation scheduling using continuously monitored data of soil volumetric water content. *Acta Horticulturae* 1335: 613–618.
37. Kakabouki, I., Mavroeidis, A., Kouneli, V., Karydogianni, S., Folina, A., **Triantafyllidis, V.**, ... & Katsenios, N. (2022). Effects of Nitrogen Fertilization on Weed Flora and Productivity of Soybean [*Glycine max* (L.) Merr.] Crop. *Nitrogen* 3(2), 284-297.
38. Roussis, I., Kakabouki, I., Mavroeidis, A., **Triantafyllidis, V.**, Zotos, A., Kosma, C., & Bilalis, D. (2022). Seed fixed oil content, oil yield, and fatty acids profile of *Nigella sativa* L. in response to fertilization and plant density. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca* 50(2).
39. **Triantafyllidis, V.**, Mavroeidis, A., Kosma, C., Karabagias, I. K., Zotos, A., Kehayias, G., ... & Kakabouki, I. (2023). Herbicide Use in the Era of Farm to Fork: Strengths, Weaknesses and Future Implications. *Water, Air, & Soil Pollution* 234(2), 94.
40. Arachovitis, S., Kakabouki, I., Bilalis, D., Roussis, I., Mavroeidis, A., Zotos, A., **Triantafyllidis, V.**, Tigka, E. (2023). Designing Innovative Crops According to the Needs of Climate Change and Green Deal. *Bull. Univ. Agric. Sci* 80(1): 1-6.
41. Angelopoulou, F., Roussis, I., Kakabouki, I., Mavroeidis, A., **Triantafyllidis, V.**, Beslemes, D., ... & Bilalis, D. (2023). Influence of Organic Fertilization and Soil Tillage on the Yield and Quality of

Cold-Pressed Camelina [*Camelina sativa* (L.) Crantz] Seed Cake: An Alternative Feed Ingredient. *Applied Sciences* 13(6), 3759.

42. Zotos, A., **Triantafyllidis, V.**, Kosma, C., Kakabouki, I., Roussis, I., Mavroeidis, A., ... & Bilalis, D. (2023). Effect of Land-Use Intensification on Soil Properties and Plant Species Diversity in the Mediterranean Agroecosystem. *Bull. Univ. Agric. Sci* 80(1): 98-105.
43. Karydogianni, S., Roussis, I., Kakabouki, I., Mavroeidis, A., Stavropoulos, P., Efthimiadou, A., Katsenios, N., Giannoglou, M., Katsaros, G., Beslemes, D., **Triantafyllidis, V.** (2023). Seed oil content, oil yield and fatty acids composition of black mustard [*Brassica nigra* (L.) Koch] in response to fertilization and plant density. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca* 51(1), pp.13061-13061.
44. Efthimiou, I., Vlastos, D., **Triantafyllidis, V\***, & Antonopoulou, M\*. (2023). Kastoria and Mikri Prespa Lakes: The Impact of Anthropogenic Activities on the Differentiation in the Genotoxic and Toxic Profile of the Surface Water. *Land* 12(1), 119.
45. Fragkouli R, Antonopoulou M, Asimakis E, Spyrou A, Kosma C, Zotos A, Tsiamis G, Patakas A, **Triantafyllidis V\***. (2023). Mediterranean Plants as Potential Source of Biopesticides: An Overview of Current Research and Future Trends. *Metabolites* 13 967.
46. Antonopoulou, M., Spyrou, A., Tzamaria, A., Efthimiou, I., & **Triantafyllidis, V.** (2024). Current state of knowledge of environmental occurrence, toxic effects, and advanced treatment of PFOS and PFOA. *Science of The Total Environment*, 169332.
47. Kokkotos, E., Zotos, A., **Triantafyllidis, V.**, & Patakas, A. (2024). Impact of Fruit Load on the Replenishment Dynamics of Internal Water Reserves in Olive Trees. *Agronomy* 2922043.
48. **Triantafyllidis, V.** (2024). Assessment of Spatiotemporal Distribution of Herbicides in European Agricultural Land Using Agri-Environmental Indices. *Agriculture*, 14(7), 1171.
49. Kalamaras, G., Antonopoulou, M., Beobide, A. S., **Triantafyllidis, V.**, & Dailianis, S. (2024). Disposable face masks into aquatic media: Chemical and biological testing of the released compounds during the leaching process. *Environmental Pollution*, 363, 125290.
50. **Triantafyllidis, V.** (2025). Spatiotemporal Distribution of Insecticides on Eu Agricultural Land: An Agri-Environmental Index Analysis (2000–2021). *Water, Air, & Soil Pollution*, 236(2), 89.
51. Tzamaria, A., Dailianis, S., Velona, M., Beobide, A. S., Eleftherianos, A., **Triantafyllidis, V.**, & Antonopoulou, M. (2025). Physicochemical transformation and toxic potential of polyethylene terephthalate (PET) fragments exposed to natural daylight. *Chemical Engineering Journal Advances*, 22, 100763.

52. Tzatzaraki, E.N., Lazaridis, D.G., Karabagias, V.K., Malisova, O., Triantafyllidis, V., & Karabagias, I.K. (2025). Microbiological, physicochemical, and biochemical profile of quickly-frozen pomegranate juice of sweet and sour cultivars during refrigerated storage. *Food and Humanity*, 4, 100509.
53. Lazaridis, D. G., Giannoulis, S. D., Simoni, M., Karabagias, V. K., Andritsos, N. D., **Triantafyllidis, V.**, & Karabagias, I. K. (2025). Physicochemical and Phytochemical Determinations of Greek “Kollitsida”(Arctium lappa L.) from Different Regions and Evaluation of Its Antimicrobial Activity. *Separations*, 12(6), 151.
54. Christodouloupoulou, M. A., Lazaridis, D. G., Simoni, M., Intzirtzi, E., Karabagias, V. K., Andritsos, N. D., **Triantafyllidis V.** & Karabagias, I. K. (2025). Study of the Physicochemical and Phytochemical Parameters Together with Antibacterial Properties of Conventionally and Organically Cultivated Spirulina (Arthrospira platensis) in Greece. *Life*, 15(11), 1761.
55. Mavroeidis A, Stavropoulos P, Roussis I, Karydogianni S, Papadopoulos G, Kallergi S, Kakabouki I, Pachi V, **Triantafyllidis V**, Mazarakioti EC, Patakas A, Zotos A., Tsiplakou E., Bilalis D (2025). Effect of Fertilization and Plant Density on the Nutritional Value of Nettle (*Urtica dioica* L.). *Seeds*, 4(4), 63.
56. Mavrogianni, T., Intzirtzi, E., Karabagias, V. K., Lazaridis, D. G., Andritsos, N. D., **Triantafyllidis, V.**, & Karabagias, I. K. (2025). Preparation of “Ginger-Enriched Wine” and Study of Its Physicochemical and Organoleptic Stability. *Beverages*, 11(6), 170.
57. Stavropoulos, P., Mavroeidis, A., Karydogianni, S., Folina, A., Roussis, I., Kallergi, S., Mazarakioti, E., Papadopoulos, G., Triantafyllidis, V., Tsiplakou, E., Zotos, A Patakas A. & Kakabouki, I. (2025). Effects of Plant Density and Type of Fertilizer on Nutritional Quality of Flaxseed (*Linum usitatissimum* L.). *Agronomy*, 15(12), 2738.
58. Lebousi, V., Lazaridis, D. G., Intzirtzi, E., Katerinopoulou, K., Triantafyllidis, V., & Karabagias, I. K. (2026). Geographical Classification of Wine Samples of the Agiorgitiko Grape Variety of Different Vintages Based on Conventional Physicochemical Parameters and Statistical Analysis. *Food Analytical Methods*, 19(6), 178.
59. Dormousoglou, M., Galiatsatos, I., Stathopoulou, P., Fragkouli, R., Antonopoulou, M., Fetzer, D. E., ... & Efthimiou, I. (2026). Evaluation of the Antimicrobial, Cyto-Genotoxic, and Antigenotoxic Activity of Dipteryx odorata Seed Extracts. *International Journal of Molecular Sciences*, 27(2), 561.
60. Digalaki, N., Koufakis, I., Triantafyllidis, V., Kalaitzaki, A., Tzobanoglou, D., Psarras, G., ... & Tzerakis, K. (2026). Mealworm Frass as a Sustainable Organic Fertilizer for Greenhouse Tomato Cultivation. *Horticulturae*, 12(3), 301.
61. Dormousoglou, M., Serifi, G., Ioannidi, A. A., Fragkouli, R., Triantafyllidis, V., Santzouk, S., ... & Giannakopoulos, E. (2026). On the way of valorization of plant biomass: Comparative evaluation of conventional vs. ultrasound-assisted extraction for maximizing bioactivity in *Cercis siliquastrum* L. flower extracts. *Sustainable Chemistry and Pharmacy*, 51, 102399.
62. Fragkouli, R., Dormousoglou, M., Triantafyllidis, V., Antonopoulou, M., Asimakis, E., Spyrou, A., ... & Stathopoulou, P. (2026). Phytobiotics as promising antimicrobial agents in aquaculture health management. *Chemical and Biological Technologies in Agriculture*.

**Publications in proceeding of National or International Conferences (peer reviewed)**

1. **Triantafyllidis V.**, Zotos A., Kokkotos E., Adam El., Thomidis T., Patakas A. Predictive Modelling of Postharvest Disease Dynamics in Kiwifruit under Changing Environmental Conditions 7<sup>th</sup> Int. Conf. On Control, Artificial Intelligence, Robotics & Optimization, Institut Henri Poincaré, Sorbonne Université, Paris, France, April 7-9, 2026.
2. Paresidou M., **Triantafyllidis V.**, Thomidis T., Patakas A. Effect of Temperature and Relative Humidity on Conidial Germination of *Sphaerotheca pannosa* and Mathematical Modeling of the Epidemiological Response. 7th Int. Conf. On Control, Artificial Intelligence, Robotics & Optimization, Institut Henri Poincaré, Sorbonne Université, Paris, France, April 7-9, 2026.
3. Paresidou M., **Triantafyllidis V.**, Thomidis T., Patakas A. Effect of Environmental Factors on Conidial Germination of *Monilinia fructicola* and Development of a Forecasting Model in Apricot. 7th Int. Conf. On Control, Artificial Intelligence, Robotics & Optimization, Institut Henri Poincaré, Sorbonne Université, Paris, France, April 7-9, 2026.
4. Paresidou M., **Triantafyllidis V.**, Thomidis T., Patakas A. Effect of Temperature and Wetness Duration on Conidial Germination of *Wilsonomyces carpophilus* and Development of a Forecasting Model for DSS Applications in Integrated Protection of Apricot. 7th Int. Conf. On Control, Artificial Intelligence, Robotics & Optimization, Institut Henri Poincaré, Sorbonne Université, Paris, France, April 7-9, 2026.
5. **Triantafyllidis V.**, Zotos A., Mazarakioti E., Thomatou A., Kokkotos E., Adam E., Patakas A., Ladavos A., Stable Isotope ratio analysis for assessing the authenticity of table olives produced in Poligiros area in Greece. International Conference on Food Science, Food Safety and Toxicology (ICFSFST-25) 21st - 22nd June 2025 Amsterdam, Netherlands.
6. Paresidou M, **Triantafyllidis V**, Thomidis T, Patakas A. Application of predictive modeling to assess conidial germination and infection risk of *Wilsonomyces carpophilus*. 11<sup>th</sup> International Conference on Mathematics and Computers in Sciences and Industry (MCSI), Rhodes Island, Greece, August 22-24, 2025.
7. Paresidou M, **Triantafyllidis V**, Thomidis T. Development of Algorithms to Forecast the Appearance of *Monilinia laxa* in Apricot. 11<sup>th</sup> International Conference on Mathematics and Computers in Sciences and Industry (MCSI), Rhodes Island, Greece, August 22-24, 2025.
8. Kokkotos E., Zotos A., Tsirogiannis G., **Triantafyllidis V.**, & A. Patakas. Sap flow measurements as a tool to predict Olive Tree irrigation Requirements under Limited Soil Water Availability conditions. 31st International Horticultural Congress, 14-20 August 2022, Angers – France, (περιλήψεις ανακοινώσεων).

9. Kokkotos E., Zotos A., **Triantafyllidis V.**, & A. Patakas. Factors affecting Water Stress Coefficient (Ks) estimation in Olive Orchards. *31<sup>st</sup> International Horticultural Congress*, 14-20 August 2022, Angers – France, (περιλήψεις ανακοινώσεων).
10. Tzamaria A., Spyrou A., **Triantafyllidis V.**, Antonopoulou M. Toxic effects of fungicides on freshwater microalgae ICOEST 2023 9<sup>th</sup> International Conference on Environmental Science and Technology May 17-21, 2023 Sarajevo, Bosnia and Herzegovina, (περιλήψεις ανακοινώσεων).
11. Kokkotos E, Zotos A., **Triantafyllidis V.**, Patakas A., The effect of alternate fruit bearing on olive tree's water relations and consumption X International Symposium on Irrigation of Horticultural Crops South Africa February, 2023 abstract for symposium nr 738, abstract nr 43, (περιλήψεις ανακοινώσεων).
12. **Triantafyllidis V.**, Kosma C., Tsilimekis S., Bekiari A., Tsintzou A., Antonopoulou M. (2022). Insecticides in European agricultural land during the 21<sup>st</sup> century: a comparative assessment using agri-environmental indices of EU<sub>27</sub> 11<sup>th</sup> European Conference on Pesticides and Related Organic Micropollutants in the Environment, Ioannina, Greece.
13. **Triantafyllidis V.**, Kosma C., ... Bilalis D. Herbicides in Europe during the 21<sup>st</sup> century: a comparative assessment using agri-environmental indices of EU<sub>27</sub>, *21<sup>st</sup> International Conference "Life Sciences for Sustainable Development"*, 15–17 September 2022, Cluj-Napoca Romania.
14. Zotos A., **Triantafyllidis V.**, ...D. Bilalis. Effect of land-use intensification on soil properties and plant species diversity in the Mediterranean agroecosystem, *21<sup>st</sup> International Conference "Life Sciences for Sustainable Development"*, 15–17 September 2022, Cluj-Napoca Romania.
15. Kokkotos E., Zotos A., Tsirogiannis G., Triantafyllidis V., & A. Patakas. Sap flow measurements as a tool to predict Olive Tree irrigation Requirements under Limited Soil Water Availability conditions. *31st International Horticultural Congress*, 14-20 August 2022, Angers – France
16. Kokkotos E., Zotos A., Triantafyllidis V., & A. Patakas. Factors affecting Water Stress Coefficient (Ks) estimation in Olive Orchards. *31<sup>st</sup> International Horticultural Congress*, 14-20 August 2022, Angers – France.
17. Patakas A., **Triantafyllidis V.**, Zotos A., Kokkotos E., Kosμά C. (2021) Rational management of irrigation water in agriculture through the precise approach - the case of asparagus cultivation. ETAGRO, October 7-8 Athens.
18. Thomidis T., Zotos A., **Triantafyllidis V.**, Kokkotos E., Patakas A. (2021). Use of predicting model to forecast the appearance of rust and purple spot in Asparagus. 13<sup>th</sup> EFITA (European

Federation for Information Technology in Agriculture, Food and the Environment) 25-26 May p.p.45 ID:138

19. Thomidis T., Goumas D., Patakas A., Zotos A., Kokkotos E., **Triantafyllidis V.** (2021). Use of predicting models to forecast the appearance of bacterial canker of kiwifruit. 13<sup>th</sup> EFITA 25-26 May p.p.45-46 ID:139
20. Thomidis T., Goumas D., Zotos A., **Triantafyllidis V.**, Kokkotos E. (2021). Evaluation of different chemical and biological products in the control of *Pseudomonas syringae* pv. *actinidiae* on kiwifruit 13<sup>th</sup> EFITA 25-26 May p.p.63 ID:141
21. Thomidis T., Goumas D., Zotos A., **Triantafyllidis V.**, Kokkotos E. (2021). Susceptibility of twenty-two kiwifruit cultivars to *Pseudomonas syringae* pv *actinidiae* 13<sup>th</sup> EFITA 25-26 May p.p.63 ID:142
22. Patakas, A., **Triantafyllidis, V.**, Kokkotos, E., Zotos, A., Michos, K., Karaboiki, K., & Chatzipapadopoulos, F. (2019, June). Irrigation scheduling using continuously monitored data of soil volumetric water content. *III International Symposium on irrigation of Horticultural crops* Matera, Italy In *IX International Symposium on Irrigation of Horticultural Crops 1335* (pp. 613-618).
23. Patakas A., **Triantafyllidis V.**, kontogergos A. (2016). Assessing Soil Quality Index in Aitolokarnania Region, Greece *III International Symposium on Horticulture in Europe Chania Greece- SHE2016*.
24. Karanastasi E., **Triantafyllidis V.**, Oikonomou A., Mantzos N., Manos G., Konstantinou I (2012). Nematodes as biomarkers of soil health in experimental sunflower cultivation. Proceedings of the 16th Phytopathological Conference Thessaloniki, p. 154
25. Kontopoulou X.K., Savvas D., Bilalis D., **Triantafyllidis V.**, Pappa B.A., (2011). Comparison of organic and conventional sweet corn mixed crop system with beans at two NaCl levels in irrigation water. 25o Panhellenic Conference of the Hellenic Scientific Society of Horticultural Science (EEEE),, 1-4 November, Limassol, Cyprus, τ. 15A, σ. 288-290
26. Papasavas A., Salahas G., Hela D., Deligiannakis J., Savvas D., **Triantafyllidis V.**, Karamoudis M., (2011). Study of the seasonal variation of natural antioxidants in beet cultivation under conditions of nutritional stress. 25o Panhellenic Conference of the Hellenic Scientific Society of Horticultural Science (EEEE),, 1-4 November, Limassol, Cyprus, p. 192

27. **Triantafyllidis V., Manos S., Hela D., Manos G., Konstantinou I. (2008).** Persistence of trifluralin in soil of oilseed rape in Western Greece. *5<sup>th</sup> European Conference on Pesticides and Related Organic Micropollutants in the Environment, 22-25 October Marseille (France)*, p. 475-480.
28. Leneti E., Manos G., Tsimidis K., **Triantafyllidis V., Yfanti P., Manos S. & Zissis K. (2008).** Crop parameters of oilseed rape varieties in the spring sowing for biofuel production in Larissa region. *12<sup>th</sup> Panhellenic Conference of the Hellenic Scientific Society of Genetics and Plant Breeding, 8-10 October, Naoussa Greece.*
29. Patakioutas G., Karras G., Anagnostou M., Loutsou V., Savvas D. and **Triantafyllidis V., (2008).** Fate of thiacloprid applied in nutrient solution to a tomato crop grown in a closed hydroponic system. *First symposium on Horticulture in Europe 17 - 20 February, Vienna Austria.*
30. **Triantafyllidis V., Hela D., Bilalis D., Salahas G., Albanis T. (2006).** Soil Mobility and Dissipation of Mefonoxam and Penimethalin in tilled and untilled columns with tobacco in field conditions. *4<sup>th</sup> European Conference on Pesticides and Related Micropollutants in the Environment 26-29 November, Spain*, p. 168.
31. Hela D., Papavasiliou A., Savvas D., Patakioutas G., and **Triantafyllidis V., (2006).** The dissipation of imidacloprid in a closed hydroponic cultivation system. *4<sup>th</sup> European Conference on Pesticides and Related Micropollutants in the Environment 26-29 November, Spain*, p. 167.
32. **Triandafyllidis V., Hela D., Salahas G., Dimopoulos P., Albanis T. (2005).** Pendimethalin losses in surface runoff from plots cultivated with tobacco. *9<sup>th</sup> International Conference on Environmental Science and Technology, 1-3 September 2005, Rhodes Greece, [CEST2005](#)*, p. 1465-1470.
33. **Triandafyllidis V., Hela D., Patakioutas G., Dimopoulos P., Albanis T. (2005).** Runoff losses of metalaxyl in tobacco cultivation. *13<sup>th</sup> International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean (MESAEP), 8-12 October 2005, Thessaloniki Greece*, p. 151.
34. **Triandafyllidis V., Hela D., Dimopoulos P., Albanis T. (2004).** Imidacloprid losses in surface runoff from plots cultivated with tobacco. *3<sup>rd</sup> European Conference on Pesticides and Related Organic Micropollutants in the Environment, 7-10 October 2004, Halkidiki, Greece*, p. 429-432.
35. **Triantafyllidis V., Hela D., Salahas G., Dimopoulos P., Albanis T. (2005).** Dissipation of Carbofuran in soil plots cultivated with tobacco. *22<sup>nd</sup> Panhellenic Conference of the Hellenic Scientific Society of Horticultural Science (EEEEO), 19-21 October, Patras, Greece*, B 571-574.

36. **Triantafyllidis V.**, Papasavas A., Deligiannakis J., Kontomixis V., Kourasani K., Salahas G., (2005). Effect of high Cd concentrations on growth and physiological parameters in pea hydroponic cultivation. 22<sup>nd</sup> Panhellenic Conference of the Hellenic Scientific Society of Horticultural Science (EEEEO) , 19-21 October, Patras, Greece, B 477-480.
37. Kallianou C., Varnavas S., Salahas G., Kalantzopoulos D., Skoutas D., Gouliourmis N., Papasavas A., **Triantafyllidis V.** (2005). Study of the persistence of heavy metals in soil at cultivation of vine varieties, in Southwest Achaia. 22<sup>nd</sup> Panhellenic Conference of the Hellenic Scientific Society of Horticultural Science (EEEEO), 19-21 October, Patras, Greece, B 49-52.
38. Avdi M. Papasavas A., **Triantafyllidis V.** & Salahas G., (2005) Effect of nitrogen fertilization on NO<sub>3</sub><sup>-</sup> accumulation in leaves and fruits of cucumber plants in relation with physiological parameters. 10<sup>th</sup> Panhellenic Scientific Conference of Botany. 5-8 May 2005, Ioannina.
39. Papasavas A., **Triantafyllidis V.**, Hela D., Kapotis C., Veltsistas Th., Liopa-Tsakalidi A., Salahas G., (2007). Nitrate content in leafy vegetables conventionally and organically cultivated in Aitolokarnania region. 23<sup>rd</sup> Panhellenic Conference of the Hellenic Scientific Society of Horticultural Science (EEEEO), 19-21 November, Chania, Greece, 815-818.
40. **Triantafyllidis V.**, Hela D., Salahas G., Dimopoulos P., Albanis T. (2005) Surface losses of herbicide Pendimethalin in experimental tobacco crop. 20<sup>th</sup> Panhellenic Conference of Chemistry, 20-24 September, Ioannina, Greece.

### **Memberships & Reviewing Activities**

Reviewer in International Journals: *European Journal of Soil Biology, Agronomy for Sustainable Development, Environmental Monitoring and Assessment, Scientific Reports, Chemical and Biological Technologies in Agriculture, Agronomy, Plants, Spanish Journal of Agricultural Research, Biology, Agriculture, Applied sciences, international Journal of Molecular Sciences, Vegetos, Journal of Research in Environmental Science and Toxicology, Applied Sciences, journal of Global Ecology and Environment, American Journal of Experimental Agriculture, Land, hotriculturae*, etc.

- Member of Special Interdepartmental Committee (SIC) of The Interdepartmental Postgraduate Study program in “Precision Agriculture Applications” (education level: 7, according to UNESCO ISCED-2011 classification).
- Evaluator of funding applications, General Secretariat for Research and Innovation, (ΕΠΑνΕΚ 2014-2020-2023), Triantafyllidis V., University of Patras Greece (27547 - 14-03-2022).

- Member of International Humic Substances Society (IHSS).
- Member of European-Mediterranean Association Environmental Education Assessment and Protection.

### **Conferences**

- 2023 September. 1st Cardiovascular Health - Agricultural Production & Environment « Low input agriculture – Use and impact of pesticides on the environment and food safety” Dr. Vassilios Triantafyllidis, 29 September – 1 October 2023, Agrinio.
- 2023 June. 6th Elaia Conference. «Sustainable use of pesticides in olive groves in the context of the European Green Deal» Dr. Vassilios Triantafyllidis, 2-3 June 2023 Agrinio.
- 2023 March. Regional Growth Conference, RGC 2023, «Sustainable management of water and soil resources» Dr. Vassilios Triantafyllidis, 16-18 March 2023, Patras.
- 2016 November. Holistic approach to increasing the competitiveness of olive cultivation, Dr. Vassilios Triantafyllidis, Elea, Agrinio.
- 2014 November. Prospects for the cultivation of Aromatic plants in the Prefecture of Aitoloakarnania, Dr. Vassilios Triantafyllidis, Agrinio.
- 2013 March. Developments and prospects of the Agricultural Economy of the Prefecture of Aitoloakarnania, Dr. Vassilios Triantafyllidis, ETAGRO.
- 2011 May. Experimental cultivation of energy plants in Western Greece, Dr. Vassilios Triantafyllidis, Green Aim.
- 2010 December. Prospects for the cultivation of energy plants in the case of oilseed rape, Dr. Vassilios Triantafyllidis, INAEP
- 2009 December entitled "Experiences in the cultivation of energy crops" Dr. Vasileios Triantafyllidis, 2nd Business Show Aitoloakarnania, Institute for Development & Entrepreneurship (INAEP) Agrinio.
- 2009 April Results of the Technological Educational Institute of Messolongi, project EPEAK - Design new programming period, Dr. Vasileios Triantafyllidis, Messolonghi.
- 2009 January. Member of the Scientific Committee on "Prospects for crop production Stevia & aromatic plants in the region of Aitoloakarnania" Dr. Vasileios Triantafyllidis, Agrinio.
- 2007 December. Control of residual nitrate in leafy vegetables and waters in region of Aitoloakarnania Dr. Vasileios Triantafyllidis, Messolonghi.

- 2001 October Training in agricultural issues with multimedia and the Internet. Savvas D., Triantafyllidis V., Agrinio.

**Scholarships:**

1997 - 1998 Fellow of the National Polytechnic Institute of Lorraine, France (INPL) during post graduate studies in Agricultural Sciences.

**Seminars**

2003 An introductory training. National Center for Public Administration, Athens.

2001 Training and use of atomic absorption (ICP-OES), Athens.

2000 Training and use of new technologies in the use of computers Ioannina.

1999 Health and safety at work, safety engineering tasks, Hellenic Institute for Occupational Health and Safety (EL.IN.Y.A.E) Athens.

**Other Qualifications**

Certification of skills of PC use, European Computer Driving License (ECDL): Access, Microsoft Word, Excel, Internet, Origin, Power Point, Statistical packages (SPSS, Statistica).

Member of International Humic Substances Society (IHSS).

Member of European-Mediterranean Association Environmental Education Assessment and Protection.