

PERSONAL INFORMATION

Evangelos Tziritis



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-  [tziritis@gmail.com](mailto:tziritis@gmail.com)
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-  Skype evangelos.tziritis

Sex Male | Date of birth 06/06/1978 | Nationality Greek

RESUME

Dr. Evangelos Tziritis is a Researcher (Grade D) at the Soil and Water Resources Institute of the Hellenic Agricultural Organization "Demeter". His main research domain is focused on environmental hydrogeochemistry, as well as on other aspects including hydrogeology, aquifer vulnerability, geostatistics, isotope hydrology, water resources management, and environmental monitoring of water reserves. His record of achievements includes more than 10 years of experience in geo-environmental projects of basic and applied research in liaison with private firms, stakeholders, and academia. He has published more than 50 scientific papers in peer-reviewed journals and international conferences.

WORK EXPERIENCE

Oct 17 - present

**Researcher (Grade D)**

Hellenic Agricultural Organization (HAO) – DG Research , Soil and Water Resources Institute [Sindos, Thessaloniki Industrial Zone, 57400, Greece]

- Research on environmental hydrogeochemistry
- [Business or sector](#) R&D

Aug 16 – Jul 17

**Senior Consultant**

HYPERCO S.A. [Anaximandrou 65, Thessaloniki, 54250, Greece]

- EU Project Development
- [Business or sector](#) R&D

Jun 11 – Jun 16

**Research Fellow**

Hellenic Agricultural Organization (HAO) – DG Research , Soil and Water Resources Institute (ex Land Reclamation Institute) [Sindos, Thessaloniki Industrial Zone, 57400, Greece]

- Post Doc Research
- [Business or sector](#) R&D

Jul 14 – Oct 14

**Senior Geologist**

ENVECO SA [Perikleous 1, Athens, 15122, Greece]

- Site Geologist at Skouries Gold Mine (Chalkidiki, Greece)
- [Business or sector](#) R&D

Jan 13 – Jan 14

**Research Fellow**

Aristotle University of Thessaloniki, School of Sciences, Faculty of Geology [University Campus, Thessaloniki , 54124, Greece]

- Post Doc Research
- [Business or sector](#) R&D

- Feb 12 – Feb 13 **Senior Environmental Consultant**  
 Society for the Protection of Prespa [Aghios Germanos, Prespa, 53077, Greece]  
 ▪ Environmental Monitoring and Research  
[Business or sector](#) R&D
- Jan 12 – Mar 12 **Environmental Consultant**  
 Vakakis & Associates [Laodikias 9-11, Athens , Greece]  
 ▪ Consultant  
[Business or sector](#) R&D
- Jun08 – Oct 09 **Environmental Consultant**  
 ECHMES SA [Papadiamandopoulou 4, Athens , 11528 Greece]  
 ▪ Consultant  
[Business or sector](#) R&D
- Jan 03 – May 11 **Research Fellow / Research Associate**  
 National and Kapodistrian University of Athens, School of Sciences, Faculty of Geology and Geoenvironment [University Campus, Athens, 15771, Greece]  
 ▪ Research  
[Business or sector](#) R&D

EDUCATION AND TRAINING

- Oct 2004 – Oct 2008 **PhD in Environmental Geochemistry**  
 National and Kapodistrian University of Athens, School of Sciences, Faculty of Geology and Geoenvironment, Greece
- Oct 2002 – Oct 2004 **MSc in Environment and Development**  
 National Technical University of Athens, Interdisciplinary Programme, Greece
- Oct 1998 – Oct 2002 **BSc in Geology**  
 National and Kapodistrian University of Athens, School of Sciences, Faculty of Geology, Greece

PERSONAL SKILLS

Mother tongue(s) Greek

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Replace with language	C2	C2	C2	C2	C2

**Key Qualifications**

- Excellent ability to cope with multi-disciplinary, highly demanding and complex tasks.
- Strong competency in conceptualization, creativity and problem solving.
- Significant experience in EU Project Development
- Significant experience and expertise in environmental impact assessment studies, especially for soil and aquifer media.
- Significant experience and expertise in various methodological approaches for geo-environmental analysis in catchment scale level (hydrogeochemical modeling, environmental indicators, stable isotopes, index and overlay methods, risk assessment, multivariate statistics).
- Significant experience and expertise in environmental monitoring of soil and water resources (conceptualization, design of monitoring scheme, implementation, assessment and interpretation).
- Expert knowledge of environmental European legislation in water resources (Nitrates Directive 91/676/EC, Groundwater Directive 2006/118/EC, Water Framework Directive 2000/60/EC).
- Great experience in field measurements and sampling procedures of soil and water media.

**IT Literacy**

Competence scale of 1 to 5 (1 - basic; 5 - excellent)

<b>Scientific Domain</b>	<b>Software/Model</b>	<b>Level</b>
Environmental Hydrogeochemistry	Aquachem	5
	AqQA	5
	PHREEQC	2
	Geochemist Workbench	2
Geographic Information System (GIS)	ArcGIS	4
	Quantum GIS	4
	MapInfo	4
	SAGA GIS	4
Hydrology	GROWA / mGROWA	4
Statistics	MiniTab	5
	SPSS	3
MS Office (Word, Excell, Powerpoint, Outlook)		5

**Driving licence**

B

## ADDITIONAL INFORMATION

## Publications

## Peer-Reviewed International Scientific Journals

1. **Tziritis, E.**, Datta, P.S., Barzegar, R. Characterization and assessment of groundwater resources in a complex hydrological basin of central Greece (Kopaida basin) with the joint use of hydrogeochemical analysis, multivariate statistics and stable isotopes. *Aquatic Geochemistry* 23(4):271-298 DOI:10.1007/s10498-017-9322-x
2. Soltani, S., Moghaddam, A.A., Barzegar, R., **Tziritis, E.** (2017) Hydrogeochemistry and water quality of the Kordkandi-Duzduzan plain, NW Iran: application of multivariate statistical analysis and PoS index. *Environmental Monitoring and Assessment* 189(9):455, DOI: 10.1007/s10661-017-6171-4
3. Barzegar, R., Fijani, E., Moghaddam, A.A., **Tziritis, E.** (2017) Forecasting of groundwater level fluctuations using ensemble hybrid multi-wavelet neural network-based models. *Science of the Total Environment* 599-600:20-31, DOI: 10.1016/j.scitotenv.2017.04.189
4. Barzegar, R., Moghaddam, A.A., **Tziritis, E.**, Fakhri, M.S., Soltani, S. (2017) Identification of hydrogeochemical processes and pollution sources of groundwater resources in the Marand plain, northwest of Iran. *Environmental Earth Sciences* 7:296, DOI: 10.1007/s12665-017-6612-y
5. Barzegar, R., Moghaddam, A.A., **Tziritis, E.**, (2017) Hydrogeochemical evaluation of groundwater in the Tabriz plain, northwest of Iran. *Applied Water Science*, DOI: 10.1007/s13201-017-0550
6. Barzegar, R., Moghaddam, A.A., **Tziritis, E.**, (2017) Assessing the hydrochemistry and water quality of the Aji-Chay River, Northwest of Iran. *Environmental Earth Sciences* 75: 1486, DOI:10.1007/s12665-016-6302-1
7. **Tziritis, E.**, and Lombardo, L. (2017) Estimation of intrinsic aquifer vulnerability with index-overlay and statistical methods. The case of eastern Kopaida, central Greece. *Applied Water Science* 7:2215-2229, DOI 10.1007/s13201-016-0397-0
8. Filippidis, A., **Tziritis, E.**, Kantiranis, N., Tzamos, E., Gamaletsos, P., Papastergios, G., Filippidis, S. (2016) Application of Hellenic Natural Zeolite in Thessaloniki industrial area wastewater treatment. *Desalination and Water Treatment* 57:19702-19712
9. **Tziritis, E.**, Skordas, K., Kelepertzis, A. (2016) The use of hydrogeochemical analyses and multivariate statistics for the characterization of groundwater resources in complex aquifer system. A case study in Amyros River basin, Thessaly, central Greece. *Environmental Earth Sciences* 75:339
10. Panagopoulos, A., Arampatzis, G., **Tziritis, E.**, Pinaras, V., Kunkel, R., Wendland, F. (2016) Assessment of climate change impact in the hydrological regime of River Pinios basin, central Greece. *Desalination and Water Treatment* 57:2256-2267
11. **Tziritis, E.**, Arampatzis, G., Hatzigiannakis, E., Panoras, G., Panoras, A., Panagopoulos, A. (2016) Quality characteristics and hydrogeochemistry of irrigation waters from three major olive groves in Greece. *Desalination and Water Treatment* 57:11582-11591
12. **Tziritis, E.**, Tzamos, E., Vogiatzis, P., Matzari, C., Kantiranis, N., Filippidis, A., Theodosiou, N., Fytianos, K. (2016) Quality assessment and hydrogeochemical status of potable water resources in a suburban area of northern Greece (Thermi Municipality, central Macedonia). *Desalination and Water Treatment* 57:11462-11471
13. Voutsis, N., Kelepertzis E., **Tziritis, E.** Kelepertzis, A. (2015) Assessing the hydrogeochemistry of groundwaters in ophiolite areas of Euboea Island, Greece, using multivariate statistical methods. *Journal of Geochemical Exploration* 159:79-92
14. Panagopoulos, A., Arampatzis, G., Kuhr, P., Kunkel, R., **Tziritis, E.**, Wendland F. (2015) Area-differentiated modeling of water balance in Pinios River Basin, central Greece. *Global Nest* 17(2): 221-235
15. Konstantinou, V., Arampatzis, G., Panagopoulos, A., **Tziritis, E.**, Voudouris, K. (2015) Water

- quality of the vadose and saturated zone in part of the sedimentary aquifer system of Kopais Basin – central Greece. *Austin Journal of Hydrology* 2(1):1-6
16. Karyotis, T., Arampatzis, G., Panagopoulos, A., Hatzigiannakis, E., **Tziritis, E.**, Karyoti, K., Vrouhakis, J. (2014) Nutrients, trace elements and water deficit in Greek soils cultivated with olive trees. *Journal of Environmental Protection* 13:9-20
  17. **Tziritis, E.**, Panagopoulos, A., Arampatzis, G. (2014) Development of an operational index of water quality (PoS) as a versatile tool to assist groundwater resources management and strategic planning. *Journal of Hydrology* 517: 339-350
  18. **Tziritis, E.** (2014) Environmental monitoring of Micro Prespa Lake basin (Western Macedonia, Greece). Hydrogeochemical characteristics of water resources and quality trends. *Environmental Monitoring and Assessment* 186(7): 4553-4568
  19. **Tziritis, E.**, Kelepertsis, S., Korres G., Perivolaris D., Repani S. (2012) Hexavalent Chromium Contamination in Groundwaters of Thiva Basin, Central Greece. *Bulletin of Environmental Contamination and Toxicology* 89:1073-1077
  20. **Tziritis, E.**, Kelepertsis, A., Fakinou, G. (2012) Geochemical status and interactions between soil and groundwater systems in the area of Akrefnio, Central Greece. Risk assessment, under the scope of mankind and natural environment. *Journal of Water and Land Development* 15:127–144
  21. **Tziritis, E.** (2010) Assessment of NO<sub>3</sub>- contamination in a karstic aquifer, with the use of geochemical data and spatial analysis. *Environmental Earth Sciences* 60(7):1381-1390
  22. Stamatakis, M.G, Bedeleian, H., Gorea, M., Alfieris, D., Kavouri, S., **Tziritis E.** (2010) The use of clay-rich rocks and mining wastes in the production of lightweight aggregates with thermal insulation properties. *Refractories World forum* 2(3):1-8
  23. Skordas, K., **Tziritis, E.**, Kelepertzis, A. (2010) Environmental hydrogeochemical research on groundwater of the hydrological basin of Amyros River, Agia area, Thessaly, Greece. *Bulletin of the Geological Society of Greece* 43, p.1858-1867
  24. **Tziritis, E.** (2009) Groundwater and soil geochemistry of Eastern Kopaida region, (Beotia, central Greece). *Central European Journal of Geosciences* 1(2):219-226
  25. Stamatakis, M., **Tziritis, E.**, Evelpidou, N. (2009) The geochemistry of boron-rich groundwater in Karlovassi Basin, Samos Island, Greece. *Central European Journal of Geosciences* 1(2):207-218
  26. Kelepertzis, A., **Tziritis, E.**, Kelepertzis, E., Leontakianakos, G., Pallas, K. (2009) Hydrogeochemical characteristics and genetic implications of Edipsos thermal springs, North Euboea, Greece. *Central European Journal of Geosciences* 1(3):241-250
  27. **Tziritis, E.**, Kelepertzis, A., Stamatakis, M. (2008) Hydrogeochemical conditions and groundwater quality in the SE part of Samos Island. *Mineral Wealth* 149:17-27

#### International Conferences

28. Skordas, K., Papadonis, A., Petrotou A., **Tziritis, E.**, Vafidis, D. (2016) Hydrochemical and water quality study of the Kalamaki Reservoir, Thessaly, Greece. *Proceedings of the 2nd International Congress on Applied Ichthyology and Aquatic Environment*, 10-12 November 2016, Messolonghi, Greece.
29. Panagopoulos, A., Arampatzis, G., Ilias, A., Herrmann, F., Kunkel, R., Pinaras, V., **Tziritis, E.**, Wendland, F. (2016) Assessment of climate change impact on runoff in River Pinios Basin, Greece. *Procedia Engineering*, *Proceedings of 2nd EWaS International Conference: "Efficient & Sustainable Water Systems Management toward Worth Living Development"*, Chania Greece, 1-4 June 2016.
30. Hatzigiannakis, E., Kantiranis, N., **Tziritis, E.**, Filippidis, A., Arampatzis, G., Tzamos, E. (2016) The use of HEU-type zeolitic tuff in sustainable agriculture: Experimental study on the decrease of nitrate load in vadose zone leachates. *Bulletin of the Geological Society of Greece*, *Proceedings of the 14th International Congress*, Thessaloniki 25-27 May 2016.

31. **Tziritis, E.**, Arampatzis, G., Hatzigiannakis, E., Panoras, A., Stathaki, S., Zavra, A., Kalogianni, H., Panagopoulos, A. (2014) Hydrogeochemistry and water quality assessment of irrigation waters from 3 major olive grove areas in Greece. Proceedings of 12th International Conference on Protection and Restoration of the Environment, 29 June-3 July 2014 Skiathos Island, Greece, p.769-777
32. Filippidis, A., Kantiranis, N., **Tziritis, E.**, Tzamos, E., Vogiatzis, D., Filippidis, S. (2014) The use of Hellenic natural zeolite (HENAZE) in the purification of Thessaloniki industrial area wastewaters. Proceedings of 10th International Hydrogeological Congress of Greece, 8-10 October Thessaloniki, Greece, p.187-193
33. Konstantinou, V., Panagopoulos, A., **Tziritis, E.**, Voudouris, K. (2014) Water quality of the vadose and saturated zone in part of the sedimentary aquifer system of Kopais basin – Central Greece. Proceedings of 10th International Hydrogeological Congress of Greece, 8-10 October Thessaloniki, Greece, p.367-376
34. Tzamos, E., **Tziritis, E.**, Vogiatzis, P., Matzari, C., Kantiranis, N., Filippidis, A., Theodosiou, N., Fytianos, K. (2014) Suitability of potable groundwater reserves of Thermi Municipality (Macedonia, Northern Greece) and definition of main hydrogeochemical signatures. Proceedings of 12th International Conference on Protection and Restoration of the Environment, 29 June-3 July 2014, Skiathos Island, Greece, p.756-761
35. Panagopoulos, A., Arampatzis, G., Hatzigiannakis, E., Karyotis, T., Stathaki S., **Tziritis, E.** (2014) Spatio-temporal variability of nutrients in irrigation waters and its contribution on fertilization of olive groves in Crete Island, Greece. Proceedings of GeoEnv 10th Conference on geostatistics for environmental applications. 9-11 July Paris, France, p.1-5
36. Karyotis, T., Arampatzis, G., Panagopoulos, A., Hatzigiannakis, E., **Tziritis, E.**, Karyoti, K., Vrouhakis, J. (2014) Nutrients, trace elements and water deficit in Greek soils cultivated with olive trees. Proceedings of International Conference of Biogeochemical processes at Air-Soil-Water interfaces and Environmental Protection. 23-26 June 2014 Imola-Ravenna, Italy, p.1-13
37. **Tziritis, E.**, Pisinaras, V., Kunkel, R., Panagopoulos, A., Arampatzis, G., Wendland, F. (2014) Assessing the potential effects of climate change in the hydrologic budget of a large Mediterranean basin: The case of River Pinios basin, central Greece
38. **Tziritis, E.**, Arampatzis, G., Hatzigiannakis, E., Panoras, A., Stathaki, S., Zavra, A., Kalogianni, H., Panagopoulos, A. (2014) Hydrogeochemistry and water quality assessment of irrigation waters from 3 major olive grove areas in Greece. 12th International Conference on Protection and Restoration of the Environment (accepted- in press).
39. Arampatzis, G., Pisinaras, V., **Tziritis, E.**, Karyotis, T., Panagopoulos, A. (2014) Spatial and temporal distribution of key meteorological parameters at Pinios River Basin. 12th International Conference on Protection and Restoration of the Environment (accepted- in press).
40. Tzamos, E., **Tziritis, E.**, Vogiatzis, P., Matzari, C., Kantiranis, N., Filippidis, A., Theodosiou, N., Fytianos, K. (2014) Suitability of potable groundwater reserves of Thermi Municipality (Macedonia, Northern Greece) and definition of main hydrogeochemical signatures. 12th International Conference on Protection and Restoration of the Environment (accepted- in press).
41. Panagopoulos, A., Arampatzis, G., Hatzigiannakis, E., Karyotis, T., Stathaki S., **Tziritis, E.** (2014) Spatio-temporal variability of nutrients in irrigation waters and its contribution on fertilization of olive groves in Crete Island, Greece. ICERE 2014 International Conference on Environment and Renewable Energy (accepted-in press).
42. Matzari, C., Vogiatzis, P., **Tziritis, E.**, Tzamos, E., Fytianos, K., Theodosioy, N., Kantiranis, N., Filippidis, A. (2014) Tracing and variation of nitrogen compounds in the potable water reserves of Thermi Municipality (central Macedonia, Greece). 5th Environmental Conference of Macedonia-Thrace, Thessaloniki, Greece (accepted- in press)
43. Karyotis T., Panagopoulos A., Celik A., Kassapi K.A., **Tziritis E.**, Demir S. and Bilgin Yildirim H. (2012) Implementation of Nitrates Directive in Turkey. Proceedings of 8th International Soil



- Science Congress "Land degradation and challenges in soil management, Izmir, Turkey, p.251-255
44. Panagopoulos A., Kassapi K.A., Arampatzis G., Perleros B., Drakopoulou S., **Tziritis E.**, Chrysafi A., Vrouhakis I., (2012) Assessment of chemical and quantitative status of groundwater systems in pinios hydrological basin- Greece. Proceedings of XI International Conference "Protection and Restoration of the Environment, Thessaloniki, Greece, p.511-517
  45. Panagopoulos A., Arampatzis G., Vrouhakis I., **Tziritis E.**, Kassapi K.A., Chrysafi A.A., Stathaki S. and Zavra A. (2011) Groundwater quality assessment and correlation to anthropogenic activities and natural sources. The case of W. Kopaida, central Greece. Proceedings of the Conference "Integrated Water resources Management Towards Sustainable Development", Patra, Greece, p.63-68
  46. **Tziritis, E.** and Kelepertsis, A. (2011) Trace and ultra-trace element hydrochemistry of Lesvos thermal springs. Proceedings of 9th International Hydrogeological Conference, Kalavrita Greece vol.2, p.185-194.
  47. **Tziritis, E.** and Evelpidou, N. (2011) Intrinsic vulnerability assessment using a modified PI method: A case study from central Greece. Proceedings of 9th International Hydrogeological Conference, Kalavrita Greece, vol.2, p.343-350.
  48. **Tziritis, E.** (2011) Stable isotope study of a karstic aquifer in central Greece. Composition, variations and controlling factors. Proceedings of 9th International Hydrogeological Conference, Kalavrita Greece, vol.2, p.193-200
  49. **Tziritis, E.**, Kelepertsis, A., Stamatakis, M. (2008) Hydrogeochemical and environmental conditions of the karstic system of the area Eastern Kopaida – Yliki. Proceedings of 8th International Hydrogeological Conference of Greece, p.733-742.
  50. **Tziritis, E.** and Kelepertsis, A. (2007) Hydrogeochemical and isotopic study of the drainage pattern of Kopais basin. Proceedings of 8th Hellenic Geographical Conference, p.478-488
  51. **Tziritis, E.**, Kelepertsis, A., Stamatakis, M. (2007) Hydrogeochemical and environmental study of the groundwater of Chora-Mitilini basins (SE Samos) with the combination of quality factors, geostatistical methods and geological parameters. Proceedings of 8th Hellenic Geographical Conference, p.489-499

#### Abstracts and Oral Presentations

1. Panagopoulos, A., Arampatzis, Christodouloupoulou, L., Hatzigiannakis, E., Hatziharalampous, E. Ilias, A., Kyriakopoulou, K., Machera, K., Markellou, A., Matzouni, I., Michalopoulos, G., **Tziritis, E.**, (2012) IAP: A tool to assess and prioritise environmental impact from olive tree cultivations towards achieving sustainability of agro-systems. Eurorural 12' International Conference, Brno 3-7 September 2012 (Abstract – Oral Presentation)
2. Adam, K., **Tziritis, E.**, Tsakarisanos, A. (2009) Environmental Monitoring of Water Resources as a Project Management Tool in the Extractive Industry. International Congress AMIREG 2009 "Towards sustainable development: Assessing the footprint of resource utilization and hazardous waste management", 7-9 September 2009, Athens, Greece (Abstract – Oral Presentation)
3. **Tziritis, E.**, Evelpidou, N., Vassilopoulos, A. (2008) Erosion risk modelling and erosion influence to soil geochemical composition. Case study: Eastern Kopaida plain, Central Greece. In FINAL COST 634 International Conference. "On-and Off-site Environmental Impacts of Runoff and Erosion", Aveiro, Portugal (Abstract – Oral Presentation)
4. **Tziritis, E.** and Kelepertsis E. (2008). Hydrogeochemical research of the Neogene aquifers at the Karlovasi basin of Samos island, Greece. Society of Environmental Geochemistry and Health, 26th European Conference, SEGH 2008 (Abstract – Oral Presentation)

#### Other Publications

1. Kelepertsis, A. and **Tziritis E.**, 2010. Origin, geology and geochemistry of Mpouharia and Nohtaria landforms, in Mikrovaltos Kozani, NW Macedonia – Greece. In: EU Natural Heritage from East to

West. Springer-Verlag , p.43-49.

2. **Tziritis, E.**, Vassilopoulos, A., Evelpidou, N., 2008. Soil environmental study of Eastern Kopaida plain and risk assessment of potential hazards. In: Risk assessment and pollution hazards in environmentally sensitive European regions. GRINMED, p. 70-95.
3. Vassilopoulos, A., Evelpidou, N., **Tziritis, E.**, Boglis, A., 2008. WETLANDS – The example of Samos Island. Management of water resources and wetland protection in tourism developing areas. National Center for the Environment & Sustainable Development, p.1-45.

#### Theses

1. **Tziritis, E.** 2008. Hydrogeochemical - Environmental study of east Kopaida – Yliki karstic system and assessment of vulnerability with the use of Geoinformatics. PhD thesis, National and Kapodistrian University of Athens, 512p.
2. **Tziritis, E.**, 2004. Environmental attributes of aquifers and implications on the natural and mankind environment – case study : Integrated quality management of the metallic aquifer of Loutraki basin. MSc thesis, National Technical University of Athens, 244p.
3. **Tziritis, E.** and Papanikolaou, G., 2002. Active fault zones of central Greece – development of a multi-parametric data base and information management through G.I.S. system. Diploma thesis, National and Kapodistrian University of Athens, 292p.

#### Selected Projects

##### (2014-2015) **Project AGROETAK - AqVuIN**

*Title:* Development and application of an innovative method for the assessment of specific aquifer vulnerability to nitrates (AqVuIN)

Organization, Soil and Water Resources Institute

*Role:* PDoc Researcher

*Main Duties:*

- Conceptualization of a novel methodological approach for the assessment of groundwater vulnerability to nitrates
- Review and modeling of key factors affecting nitrates' biogeochemical cycle
- Modeling of interactions between nitrates and geo-media (vadose and saturated zone) and anticipated environmental effects
- Case study application and estimation of foreseen environmental impacts due to short and long-term changes

##### (2013-2014) **Project Zeolite**

*Title:* Environmental use of zeolites on water resources and sewage effluents

*Institution:* Aristotle University of Thessaloniki, Faculty of Geology

*Role:* PDoc Researcher

*Main Duties:*

- Batch experimental tests
- Mineralogical and qualitative characterization
- Hydrogeochemical modelling and environmental assessment

##### (2013-2014) **Project LIFE+ 2011 SAGE10**

*Title:* Establishment of impact assessment procedure as a tool for the sustainability of agro-ecosystem: the case of Mediterranean olives

*Institution:* Hellenic Agricultural Organization, Land Reclamation Institute

*Role:* PDoc Researcher

*Main Duties:*



- Environmental, hydrogeochemical, geological investigations and assessments
- Processing and environmental interpretation of soil and water resources data
- Contribution to the development of environmental indicators for the impact assessment of agricultural activities on soil and water resources
- Contribution to the development of a novel methodology (IAP method) for the environmental impact assessment from agricultural activities
- Data processing and analysis with GIS system
- Training of scientific staff

(2012-2013) **Project Vodafone World of Difference**

*Title:* Environmental Monitoring of Lake micro-Prespa

*Institution:* S.P.P. Non-Governmental Organization / Vodafone S.A. Greece

*Role:* PDoc Researcher / Environmental Expert

*Main Duties:*

- Conceptualization, design and implementation of an environmental monitoring program for micro-Prespa Lake and its hydrological basin
- Sampling and field works
- Laboratory analysis and testing
- Environmental analysis and assessment

(2012) **Project**

*Title:* Implementation of the Nitrates Directive in Turkey

*Company:* Vakakis International S.A.

*Role:* Environmental Expert

*Main Duties:*

- Processing and interpretation of environmental, hydrological and geological data
- Environmental impact assessment analysis and delineation of Nitrate Vulnerable Zones (NVZs) with multi-criteria assessment
- Data processing and map compilation with GIS system

(2012-2013) **Project LIFE+ 2009 ECOPEST**

*Title:* Strategic Plan for the adaptation and application of the principles for the sustainable use of pesticides in a vulnerable ecosystem

*Institution:* Hellenic Agricultural Organization, Land Reclamation Institute

*Role:* PDoc Researcher

*Main Duties:*

- Environmental and hydrogeochemical assessments on water resources
- Development of a novel index (PoS index) for the environmental characterization of water resources
- Data processing and map compilation with GIS system

(2011-2012) **Project IKYDA**

*Title:* Integrated modeling and management of nitrogen pollution in catchment areas

*Institution:* Hellenic Agricultural Organization, Land Reclamation Institute

*Role:* PDoc Researcher

*Main Duties:*

- Hydrological, hydrogeological, hydrogeochemical and environmental research

- Data processing and compilation (meteorological, soil, land use, vegetation, geological data)
- Application and calibration of GROWA hydrological model at Pinios River Basin, Greece
- Contribution to the adaptation of GROWA model to Greek hydrological/hydrogeological regime.
- Application of N-Bal nitrate fertilization model in Greek and German catchment areas
- Data processing and map compilation with GIS system
- Field works and soil sampling

**(2009-2010) Project AKREFNIO**

*Title:* Environmental – hydrogeochemical study of Akrefnio area, central Greece

*Institution:* National and Kapodistrian University of Athens, Faculty of Geology and Geo-Environment

*Role:* PDoc Researcher

*Main Duties:*

- Environmental and hydrogeochemical investigations on Cr, Ni and Cd elevated values in soil and water resources.
- Environmental impact assessment
- Field works and sampling
- Data processing and map compilation with GIS system

**(2005-2007) Project PITHAGORAS II**

*Title:* Hydrogeochemical and environmental study of Samos Island and research of correlation between elevated values of soluble salts and depositions of Industrial Minerals (Borates, Niter, Celestine)

*Institution:* National and Kapodistrian University of Athens, Faculty of Geology and Geo-Environment

*Role:* Researcher Associate

*Main Duties:*

- Environmental and hydrogeochemical investigations
- Geological and environmental mapping
- Field works and sampling
- Data processing and map compilation with GIS system

**Honours and awards**

- 2014 Fellowship for Post Doctoral research in the frame of the EU funded "AgroETAK" project of excellence and innovation in agricultural sector. Hellenic Agricultural Organization
- 2013 Fellowship (excellence) for Post Doctoral research in "environmental geochemistry". Aristotle University of Thessaloniki, Greece
- 2012 Winner of the program "Vodafone World of Difference". Vodafone S.A. Greece
- 2010 Fellowship (excellence) for Post Doctoral research in "Water and Soil Resources". State Scholarship Foundation of Greece
- 2004 Scholarship (1st award) for Doctoral research in "Environmental Geochemistry". State Scholarship Foundation of Greece

**Academic achievements****Lectures**

2009-2010 National and Kapodistrian University of Athens, Faculty of Geology and Geo-environment

Adjunct Lecturer at the following courses:

Undergraduate: Geochemistry, Environmental geochemistry, Hydrogeochemistry

Postgraduate: Environmental geochemistry

**Reviewer in international scientific journals of SCI**

- Water Research (i.f. 5.528)
- Science of the Total Environment (i.f. 4.099)
- Ecological Indicators (i.f. 3.444)
- Journal of Hydrology (i.f. 3.053)
- Water Resources Management (i.f. 2.848)
- Environmental Science and Pollution Research (i.f. 2.828)
- Environmental Impact Assessment Review (i.f. 2.400)
- Journal of Geochemical Exploration (i.f. 2.147)
- Environmental Earth Sciences (i.f. 1.765)
- Environmental Monitoring and Assessment (i.f. 1.679)
- Sustainability (i.f. 1.343)
- Desalination and Water Treatment (i.f. 1.272)
- Environmental Engineering and Management Journal (i.f. 1.049)
- Open Geosciences (i.f. 0.663)
- Journal of Hydrology: Regional Studies
- Applied Water Science
- Environment Development and Sustainability

See the registered list of reviews at:

<https://publons.com/author/464578/evangelos-tziritis#profile>

**Post-Doctoral Research**

2014-2015 “Development and application of an innovative method for the assessment of specific aquifer vulnerability to nitrates.” Hellenic Agricultural Organization, Soil and Water Resources Institute

2013-2014 “Environmental use of zeolites on water resources and sewage effluents.” Aristotle University of Thessaloniki, Faculty of Geology

2009-2010 “Environmental hydrogeochemical research of Lesvos Island thermal springs.” National and Kapodistrian University of Athens, Faculty of Geology and Geo-environment

**Memberships**

- Geotechnical Chamber of Greece (GEOTEE)
- Hellenic Geological Society
- Scientific Society of the Mineral Wealth Technology
- Society of Economic Geologists (SEG)
- International Association of Hydrogeologists (IAH)