



PERSONAL INFORMATION

Name VASSILIKI MARKOGIANNI
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WORK EXPERIENCE

Dates (from-to) 10/06/2011-Today
Name and address of employer Institute of Marine Biological Resources and Inland Waters, Hellenic Centre for Marine Research
Type of business or sector Public Research Center
Occupation or position held Research assistant
Main activities and responsibilities Participating in EU and national research projects in the fields of:

- Environmental management
- Environmental Monitoring
- Integrated River/Lake basin management
- Aerial Remote Sensing
- Image Processing of aerial and satellite images, vegetation maps, landuse/landcover maps
- Monitoring of environmental parameters through remote sensing and GIS techniques
- Environmental water resources management
- G.I.S. applications

Dates (from-to) 02/2010-11/2010
Name and address of employer Institute of Marine Biological Resources and Inland Waters, Hellenic Centre for Marine Research
Type of business or sector Public Research Center
Occupation or position held MSc student scholarship
Main activities and responsibilities G.I.S. and Remote Sensing applications

Dates (from-to) Summer 2005 and Summer 2006
Name and address of employer Institute of Marine Biological Resources and Inland Waters, Hellenic Centre for Marine Research
Type of business or sector Public Research Center
Occupation or position held Student summer training
Main activities and responsibilities G.I.S. applications

EDUCATION AND TRAINING

Dates (from – to) 2012-today
Name and type of organisation providing education and training Department of Natural Resources Management and Agricultural Engineering Agricultural University of Athens (AUA)
Principal subjects/occupational skills covered GIS, Remote Sensing and Spatial Analysis for inland water quality monitoring
Title of qualification awarded PhD candidate

Dates (from – to) 2008-2010
Name and type of organisation providing education and training Agricultural University of Athens (AUA)
Principal subjects/occupational skills covered Geoinformatics in Natural Resources
Title of qualification awarded MSc

Dates (from – to) 2002-2007
Name and type of organisation providing education and training Department of Environmental Management and Natural Resources University of Ioannina (UOI)
Principal subjects/occupational skills covered Environmental management
Title of qualification awarded BSc

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE Greek
OTHER LANGUAGES English: Excellent (London Tests of English, Edexcel, Level 5)
German: Advanced (Zertifikat Deutsch, Goethe - Institut)

SPECIFIC ITEMS

COMPUTER SOFTWARE COMPETENCES Microsoft Windows 10
Microsoft Office (Word Processing, Spreadsheets, Databases, Information and Communication - ECDL Progress Certificate; PowerPoint)
ESRI ArcGIS 10.4, ENVI 5.5
IBM SPSS Statistics version 24, Statistica 10, Primer 6 BETA

TRAINING - WORKSHOPS 1. First Microwave Ocean Remote Sensing Training School 29/09-06/10 2013, Institute of Marine Sciences, Barcelona

PARTICIPATION IN RESEARCH PROJECT 1. "Monitoring and Recording of the Water Status (Quality, Quantity, Pressures, Use) in Greece" (2017-2023), National project: Y.ME.PER.A.A. 2014-2020, Project coordinator: Dr. E. Dimitriou
2. "Hellenic Integrated Marine and Inland Water Resources Observing, Forecasting and Offshore Technology Systems (HIMIOFoTS) - Maintenance and upgrading of an integrated sea and surface water monitoring and forecasting system" (2017-2019)
National project: Operational Programme Competitiveness, Entrepreneurship and Innovation 2014-2020 (EPAnEK), Project coordinator: Dr. E. Dimitriou
3. "Improving Knowledge and Increasing Awareness for Wetland Restoration In Attica Region" (2016-2017)

- National project: Program co-funded by 85% from the EEA FM 2009-2014 and by 15% from the national funds (Greek Public Investment Programme), Project coordinator: Dr. E. Dimitriou
4. "Development of a decision support tool for the sustainable management of water resources, in combination to the optimisation of power production" (2015-2017)
National project: Programming Agreements between Research Centers -GSRT/IKY/SIEMENS 2014-2016, Project coordinator: Dr. M. Stoumpoudi
 5. "Development of an integrated management framework of river basins and associated coastal and marine zone" (2013-2015)
National project: Ministry for Education, Religious Affairs, Culture and Sport of Greece and the European Union - European Regional Development Fund, "Proposals for Development of Research Bodies-KRIPIS", Project coordinator: Dr. E. Dimitriou
 6. "Assessment of the Ecological Status of Pikrodafni stream" (2014)
Municipality of Ag. Dimitrios, Project coordinator: Dr. E. Dimitriou
 7. "Development Of New Material From Waste Biomass For Hydrocarbons Adsorption In Aquatic Environments" (2013-2014)
Operational Program "Education and Lifelong Learning" THALIS (MIS: 377356)
University Of Piraeus, Project coordinator: Dr. E. Dimitriou
 8. "TAP EAST Komotini - Thessaloniki ESIA Greece – Hydrobiology Baseline Study" (2012-2013)
TAP AG, Project coordinator: Dr. E. Dimitriou
 9. "Ecological quality assessment in Pikrodafni Stream. Management and restoration measures" (2011-2012)
National project: Ministry of Environment, Energy and Climate Change, Project coordinator: Dr. E. Dimitriou
 10. "Ecological quality monitoring in Lake Koumoundourou. Management, restoration and recreation measures" (2010-2012)
ELPE S.A., Project coordinator: Dr. E. Dimitriou
 11. "Advancing understanding of carbon cycling and coloured dissolved organic matter dynamics in European wetlands & coastal ecosystems through integration of observations and novel modelling approaches - ECODOM" (2008-2012)
Marie Curie, Project coordinator: Dr. E. Dimitriou
 12. "Environmental pollution risk assessment of Evros river catchment" (2009-2010)
National project: Trans-Balkan Pipeline S.A., Project coordinator: Dr. E. Dimitriou
 13. "Environmental monitoring of N. Plastira Reservoir" (2009-2010)
National project: Public Electricity Corporation S.A., Project coordinator: Dr. E. Dimitriou

PUBLICATIONS IN
INTERNATIONAL,
PEER-REVIEWED
JOURNALS

1. Ioanna Varkitzi, **Vassiliki Markogianni**, Maria Pantazi, Kalliopi Pagou, Alexandra Pavlidou and Elias Dimitriou (2018). Effect of river inputs on environmental status and potentially harmful phytoplankton in a coastal area of eastern Mediterranean (Maliakos Gulf, Greece). *Mediterranean Marine Science*, [S.l.], p. 326-343. ISSN 1791-6763, doi:<http://dx.doi.org/10.12681/mms.14591>.
2. **Vassiliki Markogianni**, Dionissios Kalivas, George P. Petropoulos, Elias Dimitriou (2018). An Appraisal of the Potential of Landsat 8 in Estimating Chlorophyll-a, Ammonium Concentrations and Other Water Quality Indicators. *Remote Sens.* 10(7), 1018; doi:10.3390/rs10071018.
3. **Vassiliki Markogianni**, Evangelia Anastasopoulou, Alexandros Tsoupras, Elias Dimitriou (2018). Identification of Pollution Patterns and Sources in a Semi-Arid Urban Stream. *Journal of Ecological Engineering*, 19:99-113.
4. **Vassiliki Markogianni**, Dionissios Kalivas, George Petropoulos, Elias Dimitriou (2017). Analysis on the Feasibility of Landsat 8 Imagery for Water Quality Parameters Assessment in an Oligotrophic Mediterranean Lake. *World Academy of Science, Engineering and Technology, International Journal of Environmental, Chemical, Ecological, Geological and Geophysical Engineering*, 11(9): 880-888.
5. **Vassiliki Markogianni**, Ioanna Varkitzi, Kalliopi Pagou, Alexandra Pavlidou and Elias Dimitriou (2017). Nutrient flows and related impacts between a Mediterranean river and the associated coastal area. *Continental Shelf Research*, 134: 1-14, ISSN 0278-4343, <http://dx.doi.org/10.1016/j.csr.2016.12.014>.
6. Mentzafou, A., **Markogianni, V.** and Dimitriou, E. (2017). The Use of Geospatial Technologies in Flood Hazard Mapping and Assessment: Case Study from River Evros. 174: 679. DOI: 10.1007/s00024-016-1433-6.
7. **Vasiliki Markogianni**, Angeliki Mentzafou and Elias Dimitriou (2016). Assessing the impacts of human activities and soil erosion on the water quality of Plastira mountainous Mediterranean Lake, Greece. *Environ Earth Sci* 75:915. DOI: 10.1007/s12665-016-5737-8.
8. **Vassiliki Markogianni** & Elias Dimitriou (2016): Landuse and NDVI change analysis of Sperchios river basin (Greece) with different spatial resolution sensor data by Landsat/MSS/TM and OLI, Desalination and Water Treatment, DOI:10.1080/19443994.2016.1188734.
9. Xiaoxi Yu, Elias Dimitriou, Sarantakos Konstantinos, **Vasiliki Markogianni**, Dorita Politi (2015). Effects of Yucca Shidigera extract on the reduction of ammonia concentration in Lake Koumoundourou. *Journal of Ecological Engineering*, 16(4):1-7.

10. K. Gritzalis, E. Anastasopoulou, N. Georgiopoulos, **V. Markogianni**, N. Skoulikidis (2015). Water quality and benthic fauna biodiversity in a unique small wetland at Messinia, Greece. *Journal of Environmental Biology*; Vol 36(special issue):171-176.
11. Stamatis Zogaris, **Vassiliki Markogianni**, Saniye Cevher Özeren and Elias Dimitriou (2015). Assessment of the riparian zone and river island conditions in a trans-boundary greenbelt: The EVROS/MERIC river (Greece/Turkey), *Fresenius Environmental Bulletin*, 24(1b):269-277.
12. Elias Dimitriou, **Vassiliki Markogianni**, Aggeliki Mentzafou, Ioannis Karaouzas & Stamatis Zogaris (2014). Ecological status assessment of Pikrodafni stream (Attica, Greece), restoration and management measures, *Desalination and Water Treatment* 1-8, DOI: 10.1080/19443994.2014.952250.
13. **V. Markogianni** & E. Dimitriou & I. Karaouzas (2014). Water quality monitoring and assessment of an urban Mediterranean lake facilitated by remote sensing applications, *Environ Monit Assess*, 186:5009–5026, DOI 10.1007/s10661-014-3755-0.
14. Konstantinos C. Gritzalis, Evangelia Th. Anastasopoulou, **Vasiliki Markogianni** and Nikolaos A. Georgiopoulos (2014). Assessing Tools and methods for water quality monitoring in medium sized rivers. The case of Arcadikos river (Messinia, Greece). *Fresenius Environmental Bulletin*, Vol. 23-No.11a.
15. **V. Markogianni**, E. Dimitriou & D.P. Kalivas (2013): Land-use and vegetation change detection in Plastira artificial lake catchment (Greece) by using remote-sensing and GIS techniques, *International Journal of Remote Sensing*, 34:4, 1265-1281.
16. Dimitriou Elias, Mentzafou Angeliki, **Markogianni Vasiliki**, Tzortziou Maria and Zeri Christina (2012). Geospatial Investigation into Groundwater Pollution and Water Quality Supported by Satellite Data: A Case Study from the Evros River (Eastern Mediterranean). *Pure Appl. Geophys.* DOI 10.1007/s00024-012-0621-2.

CONFERENCES
(TALKS)

1. Anastasia Priovolou, **Vassiliki Markogianni**, Dimitrios Stateras, Dionissios Kalivas. Methodology development for the generation of the updated LUCAS 2015 land cover hybrid map of Greece and conventional comparisons with large scale LC products. 11th International Conference of the Hellenic Geographical Society. Lavrion Technological and Cultural Park (LTCP) Lavrion, Greece. 11-15 April, 2018.
2. **V. Markogianni**, D. Kalivas, G. Petropoulos and E. Dimitriou. Analysis on the Feasibility of Landsat 8 Imagery for Water Quality Parameters Assessment in an Oligotrophic Mediterranean Lake. CGRS 2017: 19th International Conference on Geoscience and Remote Sensing Rome, Italy September 18 - 19, 2017.
3. **Markogianni V.**, Generali K. and Dimitriou E. Spatiotemporal river water physicochemical profile and pollution hazard mapping in the wider area of Spercheios River catchment (Central Greece). 15th International Conference on Environmental Science and Technology Rhodes, Greece, 31 August - 2 September 2017.
4. **Markogianni, V.**, Mentzafou, A., Kavvadas, S., Oikonomou, A., Zogaris, S., Konidis, A., Dimitriou, E. (2016). Development of integrated river basin and associated coastal zone management system. In 16th Hellenic Conference of Ichthyologists (pp. 521–523). Kavala. (in Greek)
5. **Markogianni, V.**, Kavvadas, S., Siapatis, A., Zachioti, P., Akepsimaidis, K., Mentzafou, A., Dimitriou, E. Monitoring of the water quality and the interaction of the integral system of Sperchios River and Maliakos Gulf. 11th Panhellenic Symposium on Oceanography and Fisheries, Mytilene, Lesbos island, Greece 14-17 May 2015.
6. **V. Markogianni** and E. Dimitriou. Landuse and NDVI change analysis of Sperchios river basin (Greece) with different spatial resolution sensor data by Landsat/MSS/ TM and OLI. Book of Abstracts of the Fifth International Conference on Environmental Management, Engineering, Planning & Economics ISBN: 978-960-6865-86-2, Mykonos island, Greece, June 14-18, 2015.
7. Mentzafou Aggeliki, **Markogianni Vasiliki**, Dimitriou Elias. Flood risk mapping and assessment in a transboundary river by using satellite data and GIS techniques. 22nd Cartographic School Geoinformatics and Atmospheric Science, 6-9 May 2014, Poland.
8. Gritzalis K., Katsogiannou I., Karaouzas I., Anastasopoulou E., **Markogianni V.**, Georgiopoulos N. Fluctuation of macroinvertebrate fauna in lotic and lentic zones in Sianitis river (Rhodes island, Greece). TÖRÖ K L. (ed.), 2014: Deltas and Wetlands (Book of abstracts), vol. 2, 48 p. Tulcea, ISSN 2344-3766 Danube Delta Tehnological Information Center Publishing House, Tulcea, Romania.
9. **V. Markogianni**, E. Dimitriou and M. Tzortziou. "Monitoring of chlorophyll-*a* and turbidity in Evros River (Greece) using Landsat imagery", /Proc. SPIE/ 8795, First International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2013), doi:10.1117/12.2027047.
10. E. Dimitriou, **V. Markogianni**, A. Mentzafou, I. Karaouzas and S. Zogaris: "Ecological status assessment of Pikrodafni stream (Attica, Greece), restoration and management measures". 4th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) and SECOTOX Conference, ISBN: 978-960-6865-67-1, Mykonos island, Greece, June 24-28, 2013.
11. **V. Markogianni**, E. Dimitriou, M. Tzortziou: Monitoring of chlorophyll-*a* in Evros river (Greece) using Landsat 5 imagery. Protection and restoration of the environment XI, 3-6 July 2012, Thessaloniki Greece.

CONFERENCES
(POSTERS)

12. **Markogianni V.**, Dimitriou E., Konstantinopoulou A., Asimakopoulou G.: "Algorithm development for monitoring chlorophyll-a distribution in lake Koumoundourou determined from remote sensing data", 10o Hellenic Symposium of Oceanography and Fishery, 7-11 May 2012, Evgenidis Institution, Athens Greece.
1. **V. Markogianni**, Elias Dimitriou. Retrieval of chlorophyll-a values in Trichonida Lake (Greece), from Landsat 8 imagery. Mapping Water Bodies from Space - MWBS 2015 Conference, 18-19 March 2015, ESA – ESRIN (Frascati - Italy).
2. **V. Markogianni**, A. Mentzafou, E. Dimitriou. Ecological effect of long-term land use changes and other pressures on a peri-urban wetland. The Mediterranean city, Adaptation Strategies to Global Environmental Change in the Mediterranean City and the Role of Global Earth Observation, 10-11 June 2014, Athens, Greece.
3. **Vassiliki Markogianni**, Elli Tzirkalli, Salih Gücel, Elias Dimitriou, Stamatis Zogaris. Remote sensing application for identifying wetland sites on Cyprus: Problems and prospects. Second International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2014), 7-10 April 2014, Paphos, Cyprus.
4. Elias Dimitriou, **Vassiliki Markogianni**, Xiaoxi Yu. "The effects of Yucca shidigera extract on the reduction of ammonia concentration in Lake Koumoundourou". Geophysical Research Abstracts Vol. 15, EGU2013-3095, 2013, European Geosciences Union, General Assembly 2013, 07-12 April 2013, Vienna Austria.
5. K. C. Gritzalis, E. Anastasopoulou, **V. Markogianni**, N. Georgiopoulos: "Assessing tools and methods for water quality monitoring in medium sized rivers. The case of Arcadikos River (Messinia, Greece)". 4th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) and SECOTOX Conference, ISBN: 978-960-6865-67-1, Mykonos island, Greece, June 24-28, 2013.
6. Mentzafou A., Dimitriou E. and **Markogianni V.**: "Flood hazard assessment based on a GIS based methodology", Geophysical Research Abstracts, Vol. 14, EGU2012-738, 2012, European Geosciences Union General Assembly 2012, 22-27 April 2012, Vienna Austria.

OTHER
ACTIVITIES

TEACHING
EXPERIENCE

Winter semester October-December 2015

Computer lab: Applications of Geographical Information Systems (GIS) in the Environment
Agricultural University of Athens (AUA)
Department of Natural Resources Management and Agricultural Engineering