

CURRICULUM VITAE

GEORGE PAPAIOANNOU

**Forest Engineer, MSc, PhD
Hellenic Centre for Marine Research,
Institute of Marine Biological Resources and Inland Waters**

November 2019

1. CURRICULUM VITAE

1.1. PERSONAL INFORMATION

Name/ surname: George Papaioannou
Date of birth: 19 February 1984
Place of birth: Drama, Greece
Family status: Married, one child
Address: 46.7 km of Athens – Sounio Ave., 19013, Anavissos Attikis, Greece.
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1. 2. ACADEMIC QUALIFICATIONS

1) POSTGRADUATE STUDIES

a) University of Thessaly, 2008 - 2017

PhD in Hydrology and Water Resources, Department of Civil Engineering, University of Thessaly.

Supervisor: Professor Athanasios Loukas

Thesis title: Flood Hazard and Risk Modelling Framework for Ungauged Streams and Watersheds.

PhD degree: Excellent

b) Democritus University of Thrace, 2006 - 2008

M.Sc. “Sustainable Management of the Environment and Natural Resources” with specialization at the sector of “Sustainable Management of Mountainous Watersheds with Intelligent Information Systems and GIS”. Department of Forestry and Management of the Environment and Natural Resources, Democritus University of Thrace.

Supervisor: Assistant Professor, Fotis Maris.

M.Sc. Thesis: The torrential environment of Kosynthos river basin.

M.Sc, grade: 9,61 / 10

2) UNDERGRADUATE STUDIES

Democritus University of Thrace, 2001 – 2006

BSc Department of Forestry and Management of the Environment and Natural Resources, Democritus University of Thrace.

Supervisor: Assistant Professor, Fotis Maris.

BSc thesis title: Water potential and water balance of the stream watersheds Kamenikion, Agion Anargiron and Eleona, Serres, Greece.

BSc grade: 7,75 / 10

1. 3. SCOLARSHIPS

- University of Thessaly - Department of Civil Engineering Scholarships Program, Academic years 2010-2011, 2011-2012, 2012-2013.
- Scholarship for PhD candidates from State Scholarships Foundation for 3 months, LLP-ERASMUS scholarship. University of Messina, Department of Civil Engineering, Italy. With the scholarship a part of the PhD were incorporated with title “Uncertainty analyse of flood risk mapping”, which count 20 ECTS units.
- Scholarship from COST (European Cooperation in Science and Technology) program for the participation in the seminar “Advanced techniques for flood hazard assessment in a changing environment”, COST- FLOODFREQ training course, 8-12 October 2012, Limassol, Cyprus.
- Scholarship from COST (European Cooperation in Science and Technology) / program COST- FLOODFREQ, for Short Term Scientific Mission (STSM) to Slovak University of Technology in Bratislava (STU), Faculty of Civil Engineering, Department of Land and Water Resources Management, 1-31 October 2013, Bratislava, Slovakia.
- Post-doc scholarship based on the program “Supporting researchers with emphasis on young researchers – Round B” - Development of Human Resources, Education and Lifelong Learning, Ministry of Education and Religious Affairs - Project. Coordinator: Research Director, Dr. E. Dimitriou (2020-2022 - 15 months). The proposal with number 1248 and title “Remote sensing methodology for roughness estimation in ungauged streams and sensitivity analysis of floods using different hydraulic/hydrodynamic modeling approaches (1D,2D,1D/2D)” received pass mark (95,77 / 100) and is proposed for funding: <https://empedu.gov.gr/prosklisi-ekdilosis-endiaferontos-gia-ti-diadikasia-pro-epilogis-ereynitikon-protaseon-poy-tha-chrimatodotithoyn-sto-plaisio-tis-praxis-ypostirixi-ereyniton-me-emfasi-stoys-neoys-ereynites-kyklos-v/>. The above-mentioned proposal is resubmitted based on the new code EDVM103 and title “Supporting researchers with emphasis on young researchers – Round B” - Development of Human Resources, Education and Lifelong Learning, Ministry of Development & Investments, for the final acceptance in order to generate the contracts of the scholarship.

1. 4. SEMINARS - WEBINARS

- “Introduction to Geographical information system (GIS) -ArcGIS, ArcInfo, ArcView” 23-24 October 2003, Democritus University of Thrace, Orestiada. Marathon Data System.
- “Advanced techniques for flood hazard assessment in a changing environment”, COST- FLOODFREQ training course, 8-12 October 2012, Limassol, Cyprus.
- “MIKE FLOOD, INTEGRATED 1D AND 2D RIVER MODELLING”, MIKE by DHI training course, 25-26 April 2013, Athens, Greece.

- “Do-It-Yourself Geo Apps” online course (webinar), ESRI & UDEMY, 03 Feb - 2 March 2016.
- “Introduction to Synthetic Aperture Radar” NASA’s Applied Remote Sensing Training Program (ARSET) (webinar), NASA, 28 June - 6 July 2017.
- “Advanced Webinar: Change Detection for Land Cover Mapping” NASA’s Applied Remote Sensing Training Program (ARSET) (webinar), NASA, 28 September - 5 October 2018.
- “Dam Breach Modelling”, Australian Water School, webinar, 11 December 2018.
- “Introductory Webinar: Using Earth Observations to Monitor Water Budgets for River Basin Management” NASA’s Applied Remote Sensing Training Program (ARSET) (webinar), NASA, 13 March – 3 April 2019.
- “Advanced Webinar: Integrating Remote Sensing into a Water Quality Monitoring Program” NASA’s Applied Remote Sensing Training Program (ARSET) (webinar), NASA, 5 June – 19 June 2019.
- “Remote Sensing for Freshwater Habitats” NASA’s Applied Remote Sensing Training Program (ARSET) (webinar), NASA, 17 September – 1 October 2019. (certificate is pending)

1.5. PUBLICATIONS:

A) Dissertations and Thesis :

1. **Papaioannou, G.** (2006). “Water potential and water balance of the stream watersheds Kamenikion, Agion Anargiron and Eleona, Serres, Greece”, B.Sc. Diploma Thesis, Department of Forestry and Management of the Environment and Natural Resources, Democritus University of Thrace.
2. **Papaioannou, G.** (2008). “The torrential environment of Kosynthos river basin”, M.Sc. Thesis, Department of Forestry and Management of the Environment and Natural Resources, Democritus University of Thrace.
3. **Papaioannou, G.** (2017). “Flood Hazard and Risk Modelling Framework for Ungauged Streams and Watersheds”, Ph.D. Dissertation, Department of Civil Engineering, University of Thessaly.

B) Journal Publications

1. **Papaioannou, G., Vasiliades, L., Loukas, A.,** (2015). “Multi-criteria analysis framework for potential flood prone areas”, *Water Resour Manag* .29(2): 399-418, doi 10.1007/s11269-014-0817-6

2. **Papaioannou, G.**, Loukas, A., Vasiliades, L. and Aronica, G.T. (2016). “Flood inundation mapping sensitivity to riverine spatial resolution and modelling approach”, *Nat Haz.* 83(1):117-132. doi: 10.1007/s11069-016-2382-1
3. **Papaioannou, G.**, Bacigal, T., Jeneiova, K., Kohnova, S., Szolgay, J., Hlavcova, K. and Loukas, A., (2016) “Joint modelling of flood peaks and volumes. A copula application for Danube River”, *J. Hydrol. Hydromech.* 64(1):382-392. doi: 10.1515/johh-2016-0049
4. **Papaioannou, G.**, Vasiliades, L., Loukas, A., and Aronica, G.T. (2017) “Probabilistic flood inundation mapping at ungauged streams due to roughness coefficient uncertainty in hydraulic modelling”, *Adv. Geosci.*, 44, 23-34, doi:10.5194/adgeo-44-23-2017
5. **Papaioannou, G.**, Loukas, A., Vasiliades, L. and Aronica, G.T. (2017) “Sensitivity analysis of a probabilistic flood inundation mapping framework for ungauged catchments”, *European Water*, 60, 9-16.
6. **Papaioannou, G.**, Efstratiadis, A., Vasiliades, L., Loukas, A., Papalexiou, S.M., Koukouvinos, A., Tsoukalas, I. and Kossieris, P. (2018) “An operational method for Flood Directive implementation in ungauged urban areas”, *Hydrology*, 5(2):24, doi:10.3390/hydrology5020024
7. Sidiropoulos, P., Tziatzios, G., Vasiliades, L., **Papaioannou, G.**, Mylopoulos N., and Loukas, A., (2018) “Modeling Flow and Nitrate Transport in an Over-Exploited Aquifer of Rural Basin Using an Integrated System: The Case of Lake Karla Watershed”, *Proceedings*, 2(11):667 , doi:10.3390/proceedings2110667
8. **Papaioannou G**, Loukas A, Vasiliades L., (2019) Flood Risk Management Methodology for Lakes and Adjacent Areas: The Lake Pamvotida Paradigm. *Proceedings*. 7(1):21, doi: 10.3390/ECWS-3-05825
9. Alamanos, A., Latinopoulos, D., **Papaioannou, G.** and Mylopoulos N., (2019) “Integrated Hydro-Economic Modeling For Sustainable Water Resources Management In Data-Scarce Areas”, *Water Resour Manag.*, doi: 10.1007/s11269-019-02241-8
10. Stefanidis, K., **Papaioannou, G.**, Markogianni, V. and Dimitriou, E., (2019) “Water Quality and hydromorphological variability in Greek rivers: A nationwide assessment with implications for management”, *Water*, 11(8):1680, doi: 10.3390/w11081680
11. **Papaioannou, G.**, Varlas, G., Terti, G., Papadopoulos, A., Loukas, A., Panagopoulos, Y. and Dimitriou, E., (2019) “Flood Inundation Mapping at Ungauged Basins Using Coupled Hydrometeorological–Hydraulic Modelling: The Catastrophic Case of the 2006 Flash Flood in Volos City, Greece”, *Water*, 11(11): 2328, doi: 10.3390/w11112328

12. **Papaioannou, G.**, Papadaki, C. and Dimitriou, E., (2019) “Assessing Weighted Usable Area Sensitivity Using UAV and 2D Hydraulic modelling”, *Ecohydrology*. (under review - minor revisions)

C) Referred Conferences (full paper review):

1. **Papaioannou, G.**, Drosos, V., (2007). “Materials and construction methods for earth and rockfill dams: Past – Present - Future”, 13th National forestry conference, Hellenic forestry society, 7-10 October 2007, Kastoria, Greece (in Greek).
2. **Papaioannou, G.**, Maris, F., Loukas, A., (2009). “Estimation of the erosion of the mountainous watershed of river Kosynthos”, Joint Conference Hellenic Hydrotechnical Union - Greek Committee for Water Resources Management, Volos, 27-30 May 2009 (in Greek).
3. **Papaioannou, G.**, A. Loukas, and L. Vasiliades, (2013). “Multi-criteria analysis framework for potential flood mapping areas”, 8th International Conference of EWRA: Water Resources Management in an Interdisciplinary and Changing Context, 26-29 June 2013, Porto, Portugal.
4. **Papaioannou, G.**, Loukas, A., Georgiadis, Ch., (2013). “The effect of riverine terrain spatial resolution on flood modeling and mapping”. First International Conference on Remote Sensing and Geoinformation of the Environment, 8-10 April 2013, Paphos, Cyprus, SPIE Proceedings Vol. 8795, doi: 10.1117/12.2028218.
5. Jabiras, J., Vasiliades, L., Sidiropoulos, P., **Papaioannou, G.**, Loukas, A., Mylopoulos, N., (2015) “Climate change impacts on hydrometeorological variables at Lake Karla watershed”, 14th International Conference on Environmental Science and Technology CEST2015, 3-5 September 2015, Rhodes, Greece.
6. Vasiliades, L., Sidiropoulos, P., Jabiras, J., **Papaioannou, G.**, Kokkinos, K., Loukas, A., Mylopoulos, N., (2015). “An integrated modelling system for assessing water resources management practices”, 9th World Congress of EWRA: Water resources management in a changing World: Challenges and Opportunities, 10 – 13 June 2015, Istanbul, Turkey.
7. Vasiliades, L., Sidiropoulos, P., Jabiras, J., Kokkinos, K., Spiliotopoulos, M., **Papaioannou, G.**, Fafoutis, C., Michailidou, K, Tziatzios, G., Loukas, A., Mylopoulos, N., (2015). “An integrated monitoring and management system for quantity and quality assessment of water resources in rural basins”, 9th World Congress of EWRA: Water resources management in a changing World: Challenges and Opportunities, 10 – 13 June 2015, Istanbul, Turkey.
8. Jabiras, J., Loukas, A., Fafoutis, Ch., Spiliotopoulos, M., Sidiropoulos, P., Kokkinos, K., Vasiliades, L., **Papaioannou, G.**, Mylopoulos, N. (2015), “Development of an integrated information system for the planning and management of water resources of agricultural watersheds and strategic decision making”, Honor book for Prof. Yannopoulos, S., AUTH (in Greek).

9. Alamanos, A., Fafoutis, C., **Papaioannou, G.**, Mylopoulos, N. (2017) “Extension of an integrated hydroeconomic model of Lake Karla watershed, under management, climate and pricing scenario analysis.” Sixth International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) and SECOTOX Conference, 25-30 Jun, 2017, Thessaloniki, Greece.
10. **Papaioannou, G.**, Loukas, A., Vasiliades, L., and Aronica, G.T. (2017), “Sensitivity analysis of a probabilistic flood inundation mapping framework for ungauged catchments”, 10th World Congress of EWRA: Panta Rhei, 5 – 9 July 2017, Athens, Greece.
11. Sidiropoulos, P., Tziatzios, G., Vasiliades, L., **Papaioannou, G.**, Mylopoulos, N. and Loukas, A., (2018). “Modelling flow and nitrate transport in an over-exploited aquifer of rural basin using an integrated system: The case of Lake Karla watershed”, 3rd EWaS International Conference on “Insights on the Water-Energy-Food Nexus”, 27-30 June 2018, Lefkada Island, Greece.
12. Tziatzios, G., Sidiropoulos, P., Vasiliades, L., Tzabiras, J., **Papaioannou, G.**, Mylopoulos, N. and Loukas, A., (2018). “Effects of climate change on groundwater nitrate modelling”, International Conference "Protection and Restoration of the Environment XIV", 03-06 July 2018, Thessaloniki, Greece.
13. **Papaioannou, G.**, Loukas, A. and Vasiliades, L., (2018), “Flood risk management methodology for Lakes and adjacent areas: The Lake Pamvotida Paradigm”, 3rd International Electronic Conference on Water Sciences, 15-30 November 2018, doi: 10.3390/ECWS-3-05825.

D) Referred Presentations (abstract review):

1. **Papaioannou, G.**, Loukas, A., (2010). “Flood inundation mapping uncertainty introduced by topographic data accuracy, geometric configuration and modeling approach”, EGU General Assembly, 02-07 May 2010, Vienna, Austria (Geophysical Research Abstracts, Vol. 12)
2. Loukas, A., G. Aronica, G. Brigandì, L. Vasiliades, and **Papaioannou, G.**, (2011). “Probabilistic forecasting of antecedent soil moisture conditions as flash flood precursor variables”, EGU General Assembly 2011, 3-8 April 2011, Vienna, Austria, Geophysical Research Abstracts, Vol. 13, EGU2011-12200.
3. **Papaioannou, G.**, Loukas, A., Vasiliades, L., Aronica, G.T., (2011). “Flood prone areas mapping through GIS and Multi-Criteria Analysis”, EGU Leonardo Conference: Floods in 3D: Processes, Patterns, Predictions, 23-25 November 2011, Bratislava, Slovakia.
4. Loukas, A., Vasiliades, L., **Papaioannou, G.**, Aronica, G.T., (2011). “Estimation of flood frequency curves in poorly gauged Mediterranean watersheds using a derived distribution procedure”, EGU Leonardo Conference: Floods in 3D: Processes, Patterns, Predictions, 23-25 November 2011, Bratislava, Slovakia.

5. Brigandi, G., Aronica, G.T., Loukas, A., Vasiliades, L., **Papaioannou, G.**, (2011). “Probabilistic forecasting of antecedent soil moisture condition as flash flood precursor variables”, EGU Leonardo Conference: Floods in 3D: Processes, Patterns, Predictions, 23-25 November 2011, Bratislava, Slovakia.
6. **Papaioannou, G.**, Loukas, A., Vasiliades, L., (2013). “An evaluation of clustering techniques in flood prone areas mapping using Multicriteria Analysis”, EGU Leonardo Conference, 17-19 October 2013, Kos Island, Greece.
7. **Papaioannou, G.**, Bacigal, T., Jeneiova, K., Kohnová, S., Szolgay, J., Loukas, A., (2014). “Analysis of suitability of copula families for joint modeling of flood peaks and volumes along the Danube River”, European Symposium on Flood Frequency Estimation and Implications for Risk Management, FLOODFREQ COST ACTION ES0901, 6-7 March 2014, Potsdam, Germany.
8. **Papaioannou, G.**, Aronica, G.T., Loukas, A., Vasiliades, L., (2014). “The impact of DEM accuracy and hydraulic modeling performance for flood inundation mapping”, European Symposium on Flood Frequency Estimation and Implications for Risk Management, FLOODFREQ COST ACTION ES0901, 6-7 March 2014, Potsdam, Germany.
9. **Papaioannou, G.**, Bacigal, T., Jeneiova, K., Kohnová, S., Szolgay, J., Loukas, A., (2014). “Bivariate analysis of flood peaks and volumes using copulas. An application to the Danube River”, EGU General Assembly, 27 April – 02 May 2014, Vienna, Austria.
10. **Papaioannou, G.**, Aronica, G.T., Loukas, A., Vasiliades, L., (2014). “A sensitivity analysis using different spatial resolution terrain models and flood inundation models”, EGU General Assembly, 27 April – 02 May 2014, Vienna, Austria.
11. **Papaioannou, G.**, Loukas, A., Aronica, T.G. and Vasiliades, L., (2014), “Sensitivity analysis of flooded areas for the combination of hydraulic modeling and DEM spatial resolution”, EGU Topical Meeting: Validation in flood risk modeling, 9 – 10 December 2014, Delft, Netherland.
12. Tzabiras, J., Spiliotopoulos, M., Kokkinos, K., Fafoutis, Ch., Sidiropoulos, P., Vasiliades, L., **Papaioannou, G.**, Loukas, A. and Mylopoulos, N., (2015), “A GIS based watershed information system for water resources management and planning in semi-arid areas”, EGU General Assembly, 12-17 April 2015, Vienna, Austria (Geophysical Research Abstracts, Vol. 17, EGU2015-14150).
13. Vasiliades, L., Sidiropoulos, P., Tzabiras, J., Kokkinos, K., Spiliotopoulos, M., **Papaioannou, G.**, Fafoutis, Ch., Michailidou, K., Tziatzios, G., Loukas, A. and Mylopoulos, N., (2015), “Hydromentor: An integrated water resources monitoring and management system at modified semi-arid watersheds”, EGU General Assembly, 12-17 April 2015, Vienna, Austria (Geophysical Research Abstracts, Vol. 17, EGU2015- 14138).
14. Kohnová, S., **Papaioannou, G.**, Bacigal, T., Jeneiova, K., Szolgay, J., Loukas, A., (2016), “Joint modelling of flood peaks and volumes along the Danube River”,

EGU General Assembly, 17-22 April 2016, Vienna, Austria (Geophysical Research Abstracts, Vol. 18, EGU2016-12121).

15. **Papaioannou, G.**, Loukas, A., Vasiliades, L., and Aronica, T.G., (2016), “Evaluation of various modelling approaches in flood routing simulation and flood area mapping”, EGU General Assembly, 17-22 April 2016, Vienna, Austria (Geophysical Research Abstracts, Vol. 18, EGU2016-16208).
16. Efstratiadis, A., Papalexiou, S-M., Markonis, Y., Koukouvinos, A., Vasiliades, L., **Papaioannou, G.**, and Loukas, A., (2016), “Flood risk assessment at the regional scale: Computational challenges and the monster of uncertainty”, EGU General Assembly, 17-22 April 2016, Vienna, Austria (Geophysical Research Abstracts, Vol. 18, EGU2016-12218).
17. **Papaioannou, G.**, Loukas, A., Vasiliades, L., and Aronica, T.G. (2016), “Floodplain mapping uncertainty framework for ungauged streams”, EGU Plinius Topical Conferences: 15th Plinius Conference on Mediterranean Risks, 8 – 11 June 2016, Taormina, Italy (Plinius Conference Abstracts, Vol. 15, Plinius15-28).
18. Kohnová, S., **Papaioannou, G.**, Bacigal, T., Szolgay, J., Hlavcova, K., Loukas, A., and Vyleta, R., (2017), “On the suitability of the copula types for the joint modelling of flood peaks and volumes along the Danube River”, EGU General Assembly, 23–28 April 2017, Vienna, Austria (Geophysical Research Abstracts, Vol. 19, EGU2017-7114).
19. Loukas A., **Papaioannou G.**, Sidiropoulos, P., Vasileiades, L., and Mylopoulos, N., (2018), “Flood risk design and management of Thessaly region: implementation of EU flood directive 2007/60/EU”, 2nd International Conference of the Regional Association of Thessaly Municipalities: Pinios River: Source of Life and Growth in Thessaly, 2-3 November 2018, Larisa, Greece (in Greek).

E) Non-Referred Presentations

1. **Papaioannou, G.**, (2011). “Sensitivity analysis on flood inundation mapping introduced by different DEM and modeling approaches”, “Hydromedon” - Third meeting of PhD students, National Technical University of Athens, 11-12 July 2011, Athens, Greece (in Greek).
2. **Papaioannou, G.**, (2015). “Sensitivity analysis on flood hazard mapping introduced by different hydrodynamic modelling approaches”, Scientific lectures of summer semester, Department of Civil Engineering, University of Thessaly, 29 March 2015, Volos, Greece (in Greek).

1. 6. PARTICIPATION IN RESEARCH PROJECTS

- “Sustainable Use of Irrigation Water in the Mediterranean Region (SIRRIMED)” – FP7-KBBE-2009-3 – Proposal Reference Number: FP7-245159. Scientific Responsible: Dr. Juan José Alarcón (2011-2013).

- “Development of an Integrated System for the Water Resources Quality and Quantity Monitoring and Management of Agricultural Watersheds Under Climate Change Conditions. Application to Lake Karla Watershed (HYDROMENTOR)”, General Secretariat for Research and Technology. National Action “Cooperation”, Coordinator: Prof. A. Loukas (2011-2015).
- “Monitoring and Recording of the Water Status (Quality, Quantity, Pressures, Use) in Greece”. National project: Y.ME.PER.A.A. 2014-2020, Project coordinator: Research Director, Dr. E. Dimitriou (2017-2023)
- “Supporting researchers with emphasis on young researchers – Round B” - Development of Human Resources, Education and Lifelong Learning, Ministry of Education and Religious Affairs - Project. Coordinator: Research Director, Dr. E. Dimitriou (2020-2022 - 15 months). The proposal with number 1248 and title “Remote sensing methodology for roughness estimation in ungauged streams and sensitivity analysis of floods using different hydraulic/hydrodynamic modeling approaches (1D,2D,1D/2D)” received pass mark (95,77 / 100) and is proposed for funding: <https://empedu.gov.gr/prosklisi-ekdilosis-endiaferontos-gia-ti-diadikasia-pro-epilogis-ereynitikon-protaseon-poy-tha-chrimatodotithoyn-sto-plaisio-tis-praxis-ypostirixi-ereyniton-me-emfasi-stoys-neoys-ereynites-kyklos-v/>. The above-mentioned proposal is resubmitted based on the new code EDVM103 and title “Supporting researchers with emphasis on young researchers – Round B” - Development of Human Resources, Education and Lifelong Learning, Ministry of Development & Investments, for the final acceptance in order to generate the contracts of the scholarship.

1. 7. PARTICIPATION IN RESEARCH PROJECT PROPOSALS

- “Supporting researchers with emphasis on young researchers” - Development of Human Resources, Education and Lifelong Learning, Ministry of Education, Research and Religious Affairs - Project. Coordinator: Prof. A. Loukas (2018-2020).
- “Supporting researchers with emphasis on young researchers – Round B” - Development of Human Resources, Education and Lifelong Learning, Ministry of Education and Religious Affairs - Project. Coordinator: Research Director, Dr. E. Dimitriou (2019) & “Supporting researchers with emphasis on young researchers – Round B” - Development of Human Resources, Education and Lifelong Learning, Ministry of Development & Investments. Project. Coordinator: Research Director, Dr. E. Dimitriou (2019).

1. 8. PARTICIPATION IN TECHNICAL REPORTS

- Mylopoylos, N., Loukas, A., Vasiliades, L., **Papaioannou, G.**, Sidiropoulos, P., Tzampyras, J., Lysitsa G., Mihailidou-Notara, P. [UTH team, Phase B, Deliverable 4] (2013). “Climate Change Effects Estimation on Hydrometeorological Data in Thessaly, Epirus and West Sterea Ellada” Incl. “River basin management plan of the water districts of Epirus”/ “Drought and water scarcity management plan”, Special Secretariat of Water, Ministry of Environment and Climate Change, Consortium J. Karavokyris and Associates Consulting Engineers S.A, Technical

report, Scientific Responsible: Assoc. Prof. N. Mylopoulos. (Official Journal of the Hellenic Republic - 2292 B/13.09.2013) (http://wfdver.ypeka.gr/wp-content/uploads/2017/04/files/GR05/GR05_P24_Leipsidria_Xirasia.pdf) (in Greek)

- Mylopoylos, N., Loukas, A., Vasiliades, L., **Papaioannou, G.**, Sidiropoulos, P., Tzampyras, J., Lysitsa G., Mihailidou-Notara, P. [UTH team, Phase B, Deliverable 4] (2014). “Climate Change Effects Estimation on Hydrometeorological Data in Thessaly, Epirus and West Sterea Ellada” Incl. “River basin management plan of the water districts of Thessaly” / “Drought and water scarcity management plan”, Special Secretariat of Water, Ministry of Environment and Climate Change, Consortium J. Karavokyris and Associates Consulting Engineers S.A, Technical report, Scientific Responsible: Assoc. Prof. N. Mylopoulos. (Official Journal of the Hellenic Republic - 2561 B/25.09.2014) (http://wfdver.ypeka.gr/wp-content/uploads/2017/04/files/GR08/GR08_P24_Leipsidria_Xirasia.pdf) (in Greek)
- Mylopoylos, N., Loukas, A., Vasiliades, L., **Papaioannou, G.**, Sidiropoulos, P., Tzampyras, J., Lysitsa G., Mihailidou-Notara, P. [UTH team, Phase B, Deliverable 4] (2014). “Climate Change Effects Estimation on Hydrometeorological Data in Thessaly, Epirus and West Sterea Ellada” Incl. “River basin management plan of the water districts of Western Greece, Greece”/ “Drought and water scarcity management plan”, Special Secretariat of Water, Ministry of Environment and Climate Change, Consortium J. Karavokyris and Associates Consulting Engineers S.A, Technical report, Scientific Responsible: Assoc. Prof. N. Mylopoulos. (Official Journal of the Hellenic Republic - 2562 B/25.09.2014) (http://wfdver.ypeka.gr/wp-content/uploads/2017/04/files/GR04/GR04_P24_Leipsidria_Xirasia.pdf) (in Greek)
- Iakovakis, K., Loukas, A., Vasiliades, L., Sidiropoulos, P., Tzabyras, J., **Papaioannou, G.** (2014) “Hydraulic-Hydrogeological study for irrigation from Pinios River – Pumping station B”, Regional unit of Thessaly, Technical report, General Coordinator: Iakovakis, K., Scientific supervisor from UTH: Prof. Loukas, A. (in Greek)
- Mylopoylos, N., Fafoutis, C., **Papaioannou, G.**, Mihailidou-Notara, P., Memtsas, D. (2014). “Investigation of the surface runoff routing of the subwatershed of Velestino area through a technical project and conjunction with ground water modeling”. Management body of ecodevelopment area of Karla-Maurovouniou-Kefalovrisou-Velestinou, Magnesia, Greece, Technical report, Scientific supervisor: Prof. N. Mylopoulos, (in Greek)
- Loukas, A., Vasiliades, L., Ganoulis F., **Papaioannou, G.**, Sidiropoulos, P., Chronis, I., Fotakis, D. [Team n. 2, Deliverable 5] (2018). “Management Plans of Flood Risks for River Basins in Epirus Region, Greece”, In “Management Plans of Flood Risks for River Basins in Thessaly, Epirus and Westren Greece Regions”, Special Secretariat of Water, Ministry of Environment and Climate Change, Consortium J. Karavokyris and Associates Consulting Engineers S.A. Scientific Responsible: Prof. A. Loukas.(Official Journal of the Hellenic Republic - 2684 B /

6.07.2018)

(<http://thyamis.itia.ntua.gr/egyfloods/sdkp/EL05/%CE%A6%CE%95%CE%9A%202684%2006072018.pdf>). (in Greek)

- Loukas, A., Vasiliades, L., Ganoulis F., **Papaioannou, G.**, Sidiropoulos, P., Chronis, I., Fotakis, D. [Team n. 2, Deliverable 5] (2018). “Management Plans of Flood Risks for River Basins in Thessaly Region, Greece”, In “Management Plans of Flood Risks for River Basins in Thessaly, Epirus and Westren Greece Regions”, Special Secretariat of Water, Ministry of Environment and Climate Change, Consortium J. Karavokyris and Associates Consulting Engineers S.A. Scientific Responsible: Prof. A. Loukas.(Official Journal of the Hellenic Republic - 2685 B / 6.07.2018)
(<http://thyamis.itia.ntua.gr/egyfloods/sdkp/EL08/%CE%A6%CE%95%CE%9A%202685%2006072018.pdf>). (in Greek)

1. 9. TEACHING AND RESEARCH EXPERIENCE

- Teaching Assistant at the course of Meteorology-Climatology for the academic year 2007-2008, Department of Forestry and Management of the Environment and Natural Resources, Democritus University of Thrace.
- Teaching Assistant at the course of Hydrology for the academic years of 2009-2010, 2010-2011, 2011-2012, 2012-2013 and 2013-2014, Department of Civil Engineering, University of Thessaly.
- Teaching Assistant at the course “Surface and groundwater hydrological systems modelling” for the academic years of 2010-2011, 2011-2012 at the MSc program “Applied Mechanics and Systems Modelling and Simulation”, Department of Civil Engineering, University of Thessaly.
- Teaching Assistant at the courses of “Floods” and “Hydrohazard Forecasting” for the academic years of 2010-2011, 2011-2012 and at the courses of “Planning for HydroHazard Prevention and Management” and “GIS and Remote Sensing Applications in Hydrohazards Analysis” for the academic years of 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016. Common Greek-French MSc program, Management of Hydrometeorological Hazards – Hydrohasards, Department of Civil Engineering, University of Thessaly.
- Adjunct Lecturer, teaching (lectures, laboratory sessions, notes, grading) the undergraduate course “Forest hydrology – Watershed Protection” of the Larisa General Department, Studies program of the Department of Forestry and Natural Resources Management, University of Thessaly, 2019-2020.
- Collaborator, Laboratory of Hydrology and Aquatic Systems Analysis, Department of Civil Engineering, University of Thessaly, 16/08/2008– today.
- Research Associate, Hellenic Centre for Marine Research, Institute of Marine Biological Resources and Inland Waters, 01/03/2018 – today.

1. 10. SOFTWARE AND TOOLS DEVELOPMENT

- Development of the EcoFlowTool tool. This tool has been developed in ArcGIS model-builder environment and contains EcoFlow software conversion tools. It also contains the spatial distributed Weighted Usable Area Index (WUA) estimation tool, with or without the optimization criterion of 0.5 (WUA_{0.5}). Moreover, the toolbox contains the Habitat Suitability Index (HSI) estimation tool. The tool is available for free and can be downloaded from the website: <http://ecoflow.hcmr.gr/%ce%b5%cf%86%ce%b1%cf%81%ce%bc%ce%bf%ce%b3%ce%ad%cf%82/>

The desirable citation format is:

Papaioannou, G., Papadaki, Ch., and Dimitriou, E., 2019 EcoFlowTool Arc Toolbox version 1.0, Hellenic Center of Marine Research – Institute of Marine Biological Resources and Inland Waters. [online-only]

1. 11. ASSOCIATIONS AND SCIENTIFIC BODIES

1. Geotechnical chamber of Greece
2. Hellenic forestry society
3. European Geophysical Union (EGU)

1. 12. JOURNAL PUBLICATIONS REVIEWER

1. European Water
2. Water (Switzerland) [MDPI]
3. Geomatics, Natural Hazards and Risk [Taylor & Francis]
4. Land Degradation & Development [John Wiley & Sons Ltd]
5. Canadian Journal of Civil Engineering
6. Natural Hazards [Springer]

1. 13. COMPUTER KNOWLEDGE

- Microsoft Office Word, Microsoft Office Excel, Internet, Visual Basic, Access, GIS Arcview, Introduction to C++. With certification from the Department of Forestry and Management of the Environment and Natural Resources, Democritus University of Thrace.
- Microsoft Office Power-Point, Microsoft Windows, HEC-RAS, HEC-GeoRas, HEC-HMS, HEC-GeoHMS, HEC-DSSVue, ArcGIS, AutoCAD, Saga-GIS, Adobe Photoshop, Adobe Acrobat, Edraw, Polyworks 10, ArgusONE, Matlab, Surfer 10, R-Studio, R-Cran, MIKE FLOOD, MIKE-GIS, MIKE-11, MIKE-21, XPSTORM, LISFLOOD-FP, FLO2D, SPSS-v20.

1. 14. LANGUAGES

- Certification in English language - LOWER level (First Certificate), TOEIC exams, Hellenic American Union.

1. 15. PROFESSIONAL EXPERIENCE

- Practice Occupation at forestry service, Drama, Greece. **01/08/2005 – 31/08/2005**
- Practice Occupation at the forestry office of George Logothetis, Theofanis Karampatzakis and Gesthimani Christoforidou (Ifaistionos 3, Drama, Greece). **01/08/2006 – 30/09/2006.**
- “Investigation of dam design siting at Gauroneri Stomio, Larisa, Greece”. Municipality of Eurimenes, Larisa, Greece. Scientific supervisor: Prof. N. Mylopoulos, **2009.**
- Participate in a part of the study design “River basin management plan of the water districts of Thessaly, Epirus and Western Sterea Hellas, Greece” according to the EU Directive 2000/60/EC and the Greek Law 3199/2003, P.D. 51/2007. Specifically the study was focused on “Climate Change Effects Estimation on Hydrometeorological Data in Thessaly, Epirus and West Sterea Ellada”, Special Secretariat of Water, Ministry of Environment and Climate Change, Consortium J. Karavokyris and Associates Consulting Engineers S.A. Scientific Responsible: Assoc. Prof. N. Mylopoulos. **2011.**
- Field data collection for the development of the background presentation design of the Lake Karla’s Masterplan. **2012**
- “Investigation of the surface runoff routing of the subwatershed of Velestino area through a technical project and conjunction with ground water modeling”. Management body of ecodevelopment area of Karla-Maurovouniou-Kefalovrisou-Velestinou, Magnesia, Greece. Scientific supervisor: Prof. N. Mylopoulos, **2013-2014**
- “Hydraulic-Hydrogeological study for irrigation from Pinios River – Pumping station B”, Regional unit of Thessaly, General Coordinator: Iakovakis, K., Scientific supervisor from UTH: Prof. Loukas, A. **2014**
- Participate in a part of the study design “Management Plans of Flood Risks for River Basins in Thessaly and Epirus Regions, Greece”, Special Secretariat of Water, Ministry of Environment and Climate Change, Consortium J. Karavokyris and Associates Consulting Engineers S.A. Scientific Responsible: Prof. A. Loukas. **2015-2017.**

1.16 CITATIONS IN REFERRED JOURNALS, BOOKS AND CONFERENCES

The publications of Dr. George Papaioannou have over 112 (h-index 5) and 208 (h-index 7) citations based on Scopus and Google Scholar databases (November 2019), respectively, in Referred Journals, Books and Conferences and Technical reports. The publication track list could be found in Google Scholar (Search in author = Papaioannou George, <https://scholar.google.gr/citations?user=fyEXhWgAAAAJ&hl=en>) in Scopus (search in author = Papaioannou, G. and then view citation overview).

Scopus Author ID: 57209756721

- (<https://www.scopus.com/authid/detail.uri?authorId=57209756721>)