

Vasiliki Pagana

Dipl. Rural & Surveying Engineer (AUTH)

M.Sc. Water Resources Science and Technology (NTUA)

Education

- 2012** Master of Science in Water Resources Science and Technology, School of Civil Engineering, National Technical University of Athens
- Specialization: Water resources management for climate change adaptation
 - Master thesis title: Elaboration of flood inundation maps in Rafina basin (Supervisor: N. Mamasis)
- 2010** Diploma (5 years Degree, Master equivalent) of Rural and Surveying Engineering, Aristotle University of Thessaloniki
- Specialization: Hydraulic engineering
 - Diploma thesis title: Irrigation network in Vegoritida Lake (Supervisor: C. Evaggelidis)
- 2009** Participation in ERASMUS (LLP/European Community Action Scheme for the Mobility of University Students), 2nd Semester, Institut National des Sciences Appliquées (INSA), Strasbourg, France

Seminar training:

- 2013** Energy Building Supervising, IEKEM/Technical Chamber of Greece, Athens
- 2007** AUTOCAD 2D, Computer Labs, Thessaloniki

Work Experience

- 2021 (Jan.) - Today** BEYOND Centre, National Observatory of Athens
- Flood risk management
- 2016 (Apr.) - 2020 (Dec.)** Alavanos – Athanasopoulos Company, Athens
- Land and cadastre management
- 2016 (Jan.) - 2017 (Oct.)** YPODOMI Consulting Engineers Ltd, Athens
- Assessment of Flood Hazard and Flood Risk Maps in the River Basin Districts (RBD) of Central and Western Macedonia (tools GIS, FLO2D)
- 2013 (Mar.) - 2016 (Jan.)** Centre for Hydrology and Informatics (CHI), National Technical University of Athens
- Participation in the European Project FLIRE: Flood and Fire Risk Assessment and Management
 - Hydrological and hydraulic analysis of Rafina basin (tools ArcGIS, HEC-HMS, & HEC-RAS), production of flood hazard and flood risk maps (tools ArcGIS & HEC-GeoRAS), writing of technical reports, update project's website.
- 2012 (Sept.) - 2013 (Mar.)** MEYP Company, Athens
- Participation in the hydraulic design of water transmission pipeline, creation of digital terrain model, editing of plans (horizontal plans, longitudinal sections, technical drawings), participation in the preparation of technical reports (Projects: Study of Transmission and Distribution Projects in the Municipality of Ermionida, Argolida Prefecture, Water Supply of Thesprotia Prefecture from springs of Lagavitsa and Acheron: Filiates Branch, Study for the Connection of a Water Supply Pipeline from Sources of Five Churches to the Inner Aqueduct of Igoumenitsa).

Internship (in the framework of my undergraduate studies in AUTH):

- 2009 (July)** Surveying field work, Metalliko, Kilkis
- 2005 (May)** Surveying field work, AUTH Campus

Software skills

- GIS software: ArcGIS (ESRI) & Quantum GIS (QGIS open source)
- Hydrological modeling: HEC-HMS, Hydrogeomomn 4, & Zygus
- Hydraulic modeling: HEC-RAS, LISFLOOD-FP, FLO2D & EPANET
- CAD: AutoCAD (Autodesk), & MicroStation (Bentley)
- Digital elevation modeling: Surfer (Golden Software)

Foreign languages

- English (Certificate of Proficiency in English, University of Michigan)
- French (Diplome d'etudes en langue francaise 2nd degree, Delf2 A1-A6)

Publications & Technical Reports

- P. Dimitriadis, A. Tegos, A. Oikonomou, V. Pagana, A. Koukouvinos, N. Mamassis, D. Koutsoyiannis and A. Efstratiadis, 2016, Comparative evaluation of 1D and quasi-2D hydraulic models based on benchmark and real-world applications for uncertainty assessment in flood mapping, *Journal of Hydrology*, Volume 534, 478-492.
- C. Ppathanasiou, V. Pagana, C. Makropoulos, C. Massari, S. Barbetta, L. Brocca, M. Mimikou and T. Moramarco, 2015, Automating flood hazard mapping in a typical periurban area, *Le Giornate Dell'Idrologia 2015*, Perugia, Italy.
- C. Ppathanasiou, V. Pagana, C. Makropoulos and M. Mimikou, 2015, Examining the sensitivity of flood modelling in periurban areas in rainfall inputs of variable accuracy, *Proceedings of CEST 2015*, Rhodes, Greece.
- C. Ppathanasiou, V. Pagana, K. Lagouvardos, V. Kotroni, D. Poursanidis and I.Mitsopoulos, 2015, Action D1: On-Line Dissemination, Tutorial for Students, Technical Report.
- G. Eftychidis, C. Ppathanasiou, V. Pagana, 2015, Action D2: On Site Dissemination, 3rd Annual Report on Round Tables and Meetings, Technical Report.
- G. Eftychidis, C. Ppathanasiou, V. Pagana, 2015, Action D4: Networking, 2nd Networking Meeting Report, Technical Report.
- C. Ppathanasiou, G. Eftychidis, V. Pagana, 2014, Action D2: On Site Dissemination, 2nd Annual Report on Round Tables and Meetings, Technical Report.
- C. Ppathanasiou, G. Eftychidis, V. Pagana, 2014, Action D4: Networking, 1st Networking Meeting Report, Technical Report.
- C. Ppathanasiou, V. Pagana, V. Varela, G. Eftychidis, C. Makropoulos and M. Mimikou, 2013, Action A2: Identification of the current status of the study area, Status Survey Report for the study area, Technical Report.
- V. Pagana, C. Ppathanasiou, 2013, Action D2: On-site Dissemination 1st Annual Report on Round Tables and Meetings.
- V.Pagana, A. Tegos, P. Dimitriadis, A. Koukouvinos, P. Panagopoulos, and N. Mamassis, 2013. Alternative methods in floodplain hydraulic simulation - Experiences and perspectives, *European Geosciences Union General Assembly 2013*, *Geophysical Research Abstracts*, Vol. 15, Vienna, EGU2013- 10283-2, European Geosciences Union.
- A. Oikonomou, P. Dimitriadis, A. Koukouvinos, A. Tegos, V. Pagana, P. Panagopoulos, N. Mamassis, and D. Koutsoyiannis, 2013, Floodplain mapping via 1D and quasi-2D numerical models in the valley of Thessaly, Greece, *European Geosciences Union General Assembly 2013*, *Geophysical Research Abstracts*, Vol. 15, Vienna, EGU2013-10366, European Geosciences Union.
- C. Ppathanasiou , C. Massari , V. Pagana, S. Barbetta , L. Brocca , T. Moramarco , C. Makropoulos and M. Mimikou, 2013, Action B1: Catchment Hydrological Modelling, Hydrological Study of Rafina catchment, Technical Report.

Membership

- Technical Chamber of Greece