





— NIKOLAOS — STATHOPOULOS

Dr. Engineer –
Earth Observation / GIS &
Environmental Scientist

 <https://orcid.org/0000-0002-1921-9729>
 www.researchgate.net/profile/Nikos_Stathopoulos2

— PROFILE —






Dedicated and highly motivated Earth Observation / GIS & Environmental Scientist & Researcher Engineer, with over 10 years of experience in geospatial technologies and geoenvironmental – water resources analysis and management. High expertise in GIS, Remote Sensing / satellite image – processing and geospatial, hydrologic – hydrogeological modelling. Skilful and experienced in scientific research, project management & research proposal writing. Excellent ability to support team work, manage, organize and lead a team efficiently.

— CONTACT INFO —

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— PERSONAL SKILLS —

- CREATIVITY 
- TEAM WORK 
- ORGANIZATION 
- DETERMINATION 
- COMMUNICATION 



EDUCATION

- ✓ **PHD IN GEOENVIRONMENT – WATER RESOURCES & GEOINFORMATICS** (2019)
National Technical University of Athens, School of Mining & Metallurgical Engineering, Dep. of Geological Sciences, Lab. of Engineering Geology & Hydrogeology
Dissertation: “Research Methods for Geoenvironmental Hazards & Water Resources, via Geographic Information Systems & Remote Sensing”
- ✓ **MSc IN GEOINFORMATICS** (2017)
Harokopio University of Athens, School of Environment, Geography & Applied Economics. Postgraduate MSc Program “Applied Geography and Spatial Planning – Geoinformatics”, (Grade 9,7/10)
- ✓ **MSc IN WATER RESOURCES** (2008)
National Technical University of Athens, School of Civil Engineering. Postgraduate MSc Program “Water Resources Science & Technology” (Grade 8,6/10)
- ✓ **GEOSCIENCES ENGINEER** (2006)
National Technical University of Athens, School of Mining & Metallurgical Engineering, Stream “Geotechnology”, 5-year diploma (Grade 7,3/10)



— PROFESSIONAL EXPERIENCE — (WORK & RESEARCH)

- ✓ **SCIENTIFIC PROJECT MANAGER / SENIOR ASSOCIATE (ENVIRONMENT & GEOINFORMATICS)**
in ROGAN & ASSOCIATES S.A., Consulting Engineers – Architects (11/2019 – TODAY)
 - Environmental Impact Assessment Study of Patras Port – POSEIDON MED II (*EU project*)
 - Master plan, Strategic Environmental Impact Assessment Study, Environmental Baseline Study, Cumulative Impact Assessment Study of Energy Center in Vasilikos Area, Cyprus (*International Project*)
 - Master Plan of Thessaloniki Port (Environmental Section)
 - Environmental Impact Assessment of Perama Port Facility
 - Environmental Study for Pier 6 Expansion in Thessaloniki Port
 - Coastline Change Assessment via RS & GIS in Skaleta, Crete
 - Participation in project proposals (National & International)
- ✓ **ENVIRONMENTAL – GEOINFORMATICS ENGINEER**
in PUBLIC POWER CORPORATION S.A.
Sector of Hydrogeological Studies, Mines Central Support Department (12/2016-11/2019)
 - Environmental studies on sustainable management
 - Hydrogeological studies on mines’ drainage and water quality/quantity of surface and groundwater
 - Environmental studies for the impacts of mining activities
 - Processing of chemical analyses and conduction of hydrochemical research in areas with mining activity
 - Data analysis and modelling via GIS, Surfer, Aquachem, etc.



— SOFTWARE SKILLS —

ArcGIS/QGIS	● ● ● ● ●
AUTOCAD	○ ● ● ● ●
HEC-HMS/RAS/DSS	○ ● ● ● ●
SURFER	● ● ● ● ●
AQUACHEM	● ● ● ● ●
ENVI/SNAP/ERDAS	○ ● ● ● ●
GeoDa	○ ● ● ● ●
SPSS	○ ○ ● ● ●
PYTHON	○ ○ ○ ● ●
R	○ ○ ○ ● ●
MATLAB	○ ○ ○ ● ●



— CERTIFICATIONS —

MS OFFICE/WINDOWS: ECDL Core Certificate
GIS Software: ECDL GISPro Certificate



— LANGUAGES —

 **ENGLISH:** Excellent Level
Cambridge Proficiency

 **FRENCH:** Good Level Delf B2

 **GREEK:** Excellent Level
Native Language



— SEMINARS —

(A selection is presented below)

- LIFE EU Project proposal writing. Host: Greek LIFE Task Force (2020)
- Use of Copernicus Data Sentinel 1 & 2 via ERDAS IMAGINE v.2016 software of Hexagon Geospatial. Host: Geosystems Hellas (2016)
- Mapping Urban Areas from Satellite Imagery. Global Human Settlement Layer and Applications of the European Settlement Map (ESM). Host: Joint Research Center European Commission & Harokopio University (2015)
- Remote Sensing software ENVI by Exelis Host: Inforest Research O.C. (2014)



— PROFESSIONAL EXPERIENCE — (WORK & RESEARCH)

- ✓ **CONSULTING ENGINEER
(ENVIRONMENT & GEOINFORMATICS)**
in AXON ENVIROGROUP LTD., Environmental Company
(03/2015-12/2016)
 - Conduction of hydrological and environmental studies
 - Hydrogeological & environmental analysis via GIS & AutoCAD.
 - Preparation of environmental impact assessment reports.
 - Data collection/presentation for project estimates & timeframes.
 - Development and monitoring of databases and GIS systems
 - Satellite image analysis (Landsat, Modis, Sentinel, etc.) for change detection, terrain models and other applications
 - Quality certification reports
 - Cartographic imaging of atmospheric pollution through the recording of atmospheric emissions
- ✓ **RESEARCHER / TEACHING ASSOCIATE
(GEOENVIRONMENT – WATER RESOURCES & GEOINFORMATICS)**
in NATIONAL TECHNICAL UNIVERSITY OF ATHENS, School of Mining Engineering, Department of Geological Sciences, Lab. of Engineering Geology & Hydrogeology (01/2010-03/2015)
 - Participation in research projects
 - Technical field work for laboratory's projects, including groundwater, surface water and soil sampling, chemical lab analyses of field samples and technical report writing
 - Data processing, analysis & modelling via GIS, Surfer, Aquachem and other software, statistical analysis and presentation of the results via ArcGIS/QGIS, SPSS and GeoDa
 - Development and monitoring of project databases
 - Teaching, preparation of educational material for GIS and Remote Sensing analysis, supervising, guiding and assisting students in conducting their theses

— HIGHLIGHTED RESEARCH PROJECTS —

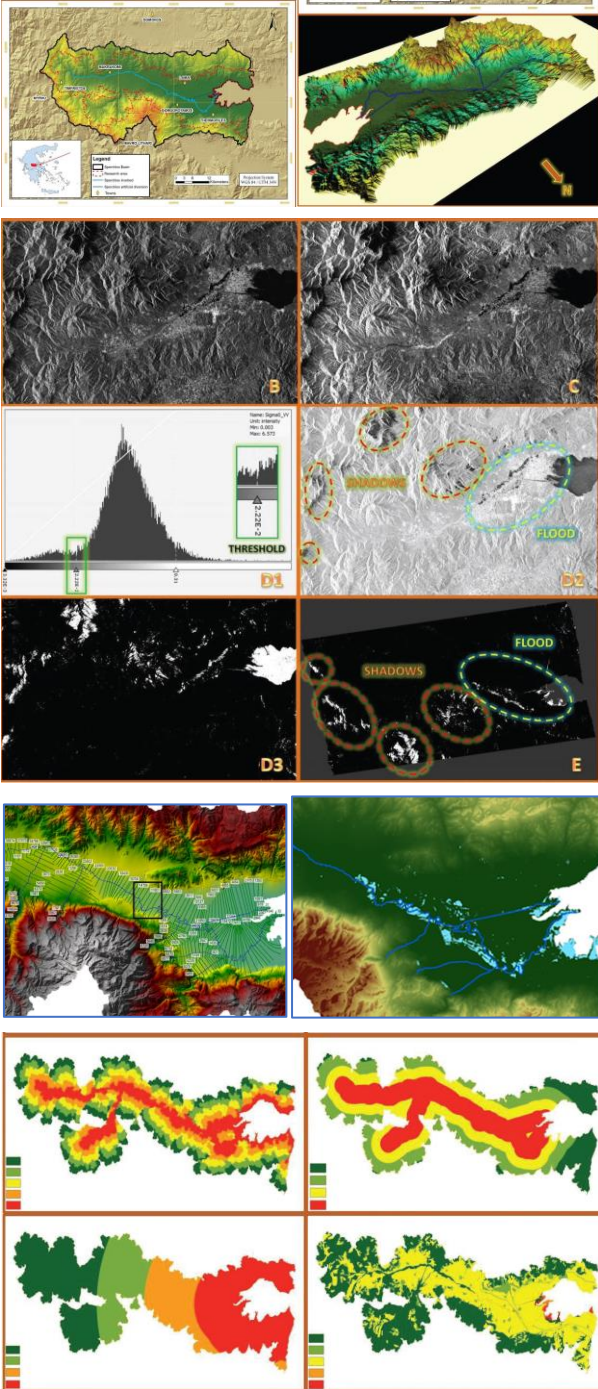
- ✓ MASTER PLAN OF VASILIKOS ENERGY CENTER, CYPRUS
http://www.mcit.gov.cy/mcit/hydrocarbon.nsf/page20_en/page20_en?OpenDocument
(International Project) - *Scientific Project Manager*
- ✓ POSEIDON MED II – LNG Bunkering Project
<https://www.poseidonmedii.eu/>
(EU Project) – *Scientific Project Manager (in Environmental Section of Ports)*
- ✓ MARSOL (MANAGED AQUIFER RECHARGE SOLUTIONS) – Demonstrating Managed Aquifer Recharge as a Solution to Water Scarcity and Drought <http://www.marsol.eu/>
(EU FP7 Project) – *Research Team Manager*

Proposal Writing Participation in three LIFE EU Projects, in one UIA EU Project, in two H.F.R.I. Greek Projects



— PORTFOLIO —

Work examples including GIS / Remote sensing analysis, cartographic techniques, 3D modelling.



— INTERESTS/HOBBIES —

Sports: Kick Boxing, Basketball, Sailing (Skipper's sailing license)

Music: Co-founder of "Music Society" web-radio and radio producer, guitar playing

Cinema, Literature, Traveling



— RESEARCH PUBLICATIONS —

Over 25 Research Papers in Scientific Books, Journals and Conferences, focusing on Geo-environment, GIS & Remote Sensing. (A selection is presented below).

- Louka, P., Papanikolaou, I., Petropoulos, G. P., Kalogeropoulos, K., & **Stathopoulos, N.** (2020). Identifying Spatially Correlated Patterns between Surface Water and Frost Risk Using EO Data and Geospatial Indices. *Water*, 12(3), 700.
- **Stathopoulos, N.**, Lykoudi, E., Vasileiou, E., Rozos, D. and Dimitrakopoulos, D. (2017). Erosion Vulnerability Assessment of Sperchios River Basin, in East Central Greece – A GIS Based Analysis. *Open Journal of Geology*, 7, pp. 621-646.
- **Stathopoulos, N.**, Kalogeropoulos, K., Polykretis, Ch., Skrimizeas, P., Louka, P., Karymbalis, E. & Chalkias, Ch. (2017). Introducing Flood Susceptibility Index Using RS Data & GIS – Empirical Analysis in Sperchios River Basin, Greece. *Remote Sensing of Hydro-meteorological Hazards*. T. Islam & G. Petropoulos. CRC press, Taylor and Francis. USA.
- Louka, P., Papanikolaou, I., Petropoulos, G. & **Stathopoulos, N.** (2017). Temperature Fluctuation & Frost Risk Analysis on a Road Network, by Coupling Remote Sensing Data, Thermal Mapping and GIS Techniques. *Remote Sensing of Hydro-meteorological Hazards*. T. Islam & G. Petropoulos. CRC press, Taylor and Francis. USA.
- **Stathopoulos, N.**, Louka, P., Kalogeropoulos, K., Karymbalis, E., Papadopoulos, A. & Chalkias, C. (2017). Flood Impact Assessment via SAR Data Analysis and GIS. Application in Sperchios River Basin, Greece. In: *Proceedings of 2nd Congress of GIS and Spatial Analysis on Agriculture and Environment*, 25-26 May, Athens, Greece
- Chalkias, C., **Stathopoulos, N.**, Kalogeropoulos, K. & Karymbalis, E. (2016). Applied Hydrological Modeling with the Use of Geoinformatics: Theory and Practice. In: Habib, M. ed. *Empirical Modeling & Its Applications*. Intech, 4, pp. 61-86.
- Louka, P., Papanikolaou, I., Petropoulos, G., & **Stathopoulos, N.** (2016). A Deterministic Model to Predict Frost Hazard in Agricultural Land, Utilizing Remotely Sensed Imagery and GIS. In: Srivastana, P.K., Pandey, P.C., Kumar, P., Raghubanshi, A.K. & Han, D. eds. *Geospatial Technology for Water Resource Development*. USA: CRC Press, Taylor and Francis.
- Vasileiou, E., **Stathopoulos, N.**, Stefouli, M., Charou, E. & Perrakis, A. (2012). Evaluating the Environmental Impacts After the Closure of Mining Activities, Using Remote Sensing Methods – The Case Study of Aliveri Mine Area. In: McCullough, C.D., Lund, M.A., Wyse, L. (Eds), *International Mine Water Association Symposium: Proceedings of 12th IMWA Confer.* (30 Sept-4 October, Perth), Australia, pp. 755-763
- **Stathopoulos, N.**, Vasileiou, E., Charou, E., Perrakis, A., Kallioras, A., Rozos, D. & Stefouli., M. (2012). Coupling of Remote Sensing, Climate and Hydrologic Data for Assessing Coastline Changes in R. Sperchios Estuary (Maliakos Gulf, Greece). *Geophysical Research Abstracts*, Vol. 14, EGU2012-9712, EGU General Assembly, 22-27 April, Austria.



— EXTRA RESEARCH ACTIVITY —

- **Project proposal writing:** Participation in preparation, writing and submission of research project proposals
- **Reviewer:** Scientific Journals: Sustainability (MDPI), Minerals (MDPI), Water (MDPI), International Journal of Remote Sensing (Taylor & Francis), European Journal of Remote Sensing (Taylor & Francis). Scientific Books: Book Proposal Reviewer & Evaluator for Elsevier.
- **Editor:** In a Special Issue in scientific journal Sustainability (MDPI), in a Scientific Book for Elsevier (proposed – under review).