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# George D. Bathrellos

Associate Professor of Geomorphology

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## PERSONAL INFORMATION

Date of Birth: May 27, 1965  
Place of Birth: Athens  
Marital status: Married with two children  
Nationality: Greek

## EDUCATION

1991: Bachelor in Geology, Faculty of Geology, National & Kapodistrian University of Athens (N.K.U.A.), Greece  
2000: MSc in Geography & Environment, Faculty of Geology, N.K.U.A., Greece  
2005: PhD in Urban Geology & Geomorphology, Faculty of Geology, N.K.U.A., Greece  
2014: MSc in Geological and Atmospheric Environment for Infrastructure Design, Department of Natural Resources & Agricultural Engineering, Agricultural University of Athens, Greece

## WORK EXPERIENCE

1986: Internships in "S & B Industrial Metals S.A." - Greece  
1987-1989: Internships in "Institute of Geological and Mineral Exploration (I.G.M.E.)"  
1992-1993: Geologist in "Ministry of Environment, Spatial Planning and Public Works"  
1994-1997: Collaborator of Pyli Municipality (Trikala Prefecture)  
1995-1999: Geologist Researcher  
1997-2000: Secondary Education Teacher in Private Schools  
2000-2005: Employee of a certain time in National & Kapodistrian University of Athens (N.K.U.A.)  
2005-2014: Laboratory Technologist & Researcher in Department of Geography & Climatology, Faculty of Geology & Geoenvironment, N.K.U.A.  
2006-2007, 2009-2010, 2011-2012: Under Appointed Lecturer Faculty of Geology & Geoenvironment, N.K.U.A.  
2012-2013: Teaching Staff in "MSc in Water Resources of the Mediterranean"  
2013-2014: Laboratory Teaching Staff in Department of Civil Engineering and Surveying & Geoinformatics Engineering, Technological Educational Institute of Athens  
2014-2020: Laboratory Teaching Staff & Researcher of "Geomorphology and Natural Hazards", Department of Geography & Climatology, Faculty of Geology & Geoenvironment, N.K.U.A.  
2016-2018: Teaching Staff in Hellenic Open University, Supervisor in several MSc Theses  
2020 until now: Associate Professor of "Geomorphology", in Department of Geology, University of Patras

## MAIN RESEARCH TOPICS

- Geomorphology
- Relief evolution
- Geomorphological Processes
- Applied Geomorphology
- Fluvial Geomorphology
- Hydrology

- Glacial & Periglacial Geomorphology
- Karst Geomorphology
- Aeolian Geomorphology
- Coastal Geomorphology
- Natural Geomorphological Hazards & Natural Disasters
- Mass Movements (Landslides)
- Erosion
- Floods
- Geomorphological Hazard Assessment Models (for floods, erosion, landslides, karst)
- Quaternary Geology
- Urban Geology & Geomorphology
- Planning, Land uses

**NATIONAL &  
INTERNATIONAL  
RECOGNITION**

- **2015: Award** Konstantinos Ktenas from **Academy of Sciences, Humanities and Fine Arts of Athens**
- Most Cited Papers for “Engineering Geology” ((Elsevier - **IF: 6.755**), “*Journal of African Earth Sciences*” (Elsevier - **IF: 2.046**), “*Environmental Earth Sciences*” (Springer - **IF: 2.784**), “*Land*” (MDPI - **IF: 3.395**)
- **Reviewer** for more than 50 journals (of Science Citation Index)
- **2017: Excellence in Review Award** for “*Journal of Environmental Management*” (Elsevier - **IF: 6.789**)
- **Associate Editor** in “*Natural Hazards*” (Springer - **IF: 3.102**)
- **Editorial Board member** in the following journals “*Sustainability*” (**IF: 2.576**) & “*Earth*”
- **Guest Editor** in **Special Issues** for the following journals “*Land*” (**IF: 2.429**), “*Sustainability*” (**IF: 2.576**) & “*Journal of Marine Science and Engineering*” (**IF: 2.033**)
- Member of Organizing and Scientific Committees in several national & international Conferences
- More than **2,100 non self-citations**
- **Citations / publication: 54.8** (source Web of Science)

Scopus	Web of Science	Google Scholar
Number of Citations		
1,718	1,590	2,335
h index		
22	21	24

**SELECTED  
PUBLICATIONS**

1. Skilodimou H., Stefouli M., **Bathrellos G.** (2002): Spatio-temporal analysis of the coastline of Faliro Bay, Attica, Greece. *Estudios Geológicos*, 58(3-4): 87-93, doi: [10.3989/egol.02583-4113](https://doi.org/10.3989/egol.02583-4113), Spanish National Research Council (**IF: 0.577**).
2. Skilodimou H., Livaditis G., **Bathrellos G.**, Verikiou–Papaspiridakou E. (2003): Investigating the flooding events of the urban regions of Glyfada and Voula, Attica, Greece: a contribution to Urban Geomorphology. *Geografiska Annaler: Series A, Physical Geography*, 85(2): 197–204, doi: [10.1111/1468-0459.00198](https://doi.org/10.1111/1468-0459.00198), Blackwell Publishing–Wiley–Swedish Society for Anthropology and Geography (**IF: 1.670**).
3. **Bathrellos G.D.**, Skilodimou H.D., Kelepertsis A., Alexakis D., Chrisanthaki I., Archonti D. (2008): Environmental research of groundwater in the urban and suburban areas of Attica region, Greece. *Environmental Geology*, 56(1): 11–18, doi: [10.1007/s00254-007-1135-6](https://doi.org/10.1007/s00254-007-1135-6), Springer (**IF: 2.180**).
4. **Bathrellos G.**, Antoniou B., Skilodimou H. (2009): Morphotectonic characteristics of Lefkas Island during the Quaternary (Ionian Sea, Greece). *Geologica Balcanica*, 38(1-3): 23–33, Bulgarian Academy of Sciences.
5. **Bathrellos G.D.**, Kalivas D.P., Skilodimou H.D. (2009): GIS-based landslide susceptibility mapping models applied to natural and urban planning in Trikala, Central Greece. *Estudios Geológicos*, 65(1): 49–65, doi: [10.3989/egol.08642.036](https://doi.org/10.3989/egol.08642.036), Spanish National Research Council (**IF: 0.577**).
6. **Bathrellos G.D.**, Vasilatos C., Skilodimou H.D., Stamatakis M.G. (2009): On the occurrence of a pumice-rich layer in Holocene deposits of western Peloponnesus, Ionian Sea, Greece. A geomorphological and geochemical approach. *Central European Journal of Geosciences*, 1(1): 19–32, doi: [10.2478/v10085-009-0006-7](https://doi.org/10.2478/v10085-009-0006-7), Versita (**IF: 0.526**).
7. Rozos D., **Bathrellos G.D.**, Skilodimou H.D. (2011): Comparison of the implementation of rock engineering system and analytic hierarchy process methods, upon landslide susceptibility mapping, using GIS: a case

study from the Eastern Achaia County of Peloponnesus, Greece. *Environmental Earth Sciences*, 63(1): 49–63, doi: [10.1007/s12665-010-0687-z](https://doi.org/10.1007/s12665-010-0687-z), Springer (IF: 2.180).

8. Migiros G., **Bathrellos G.D.**, Skilodimou H.D., Karamousalis T. (2011): Pinios (Peneus) River (Central Greece): Hydrological — Geomorphological elements and changes during the Quaternary. *Central European Journal of Geosciences*, 3(2): 215–228, doi: [10.2478/s13533-011-0019-1](https://doi.org/10.2478/s13533-011-0019-1), Springer (IF: 0.526).
9. Panagopoulos G.P., **Bathrellos G.D.**, Skilodimou H.D., Martsouka F.A. (2012): Mapping Urban Water Demands Using Multi-Criteria Analysis and GIS. *Water Resources Management*, 26 (5): 1347 – 1363, doi: [10.1007/s11269-011-9962-3](https://doi.org/10.1007/s11269-011-9962-3), Springer (IF: 2.924).
10. **Bathrellos G.D.**, Gaki-Papanastassiou K., Skilodimou H.D., Papanastassiou D., Chousianitis K.G. (2012): Potential suitability for urban planning and industry development by using natural hazard maps and geological - geomorphological parameters. *Environmental Earth Sciences*, 66(2): 537–548, doi: [10.1007/s12665-011-1263-x](https://doi.org/10.1007/s12665-011-1263-x), Springer (IF: 2.180).
11. Kamberis E., **Bathrellos G.D.**, Kokinou E., Skilodimou H.D. (2012): Correlation between the structural pattern and the development of the hydrographic network in a portion of the Western Thessaly basin (Greece). *Central European Journal of Geosciences*, 4 (3): 416-424, doi: [10.2478/s13533-011-0074-7](https://doi.org/10.2478/s13533-011-0074-7), Springer (IF: 0.526).
12. **Bathrellos G.D.**, Gaki-Papanastassiou K., Skilodimou H.D., Skianis G.A., Chousianitis K.G. (2013): Assessment of rural community and agricultural development using geomorphological-geological factors and GIS in the Trikala prefecture (Central Greece). *Stochastic Environmental Research and Risk Assessment*, 27(2): 573-588, doi: [10.1007/s00477-012-0602-0](https://doi.org/10.1007/s00477-012-0602-0), Springer (IF: 2.351).
13. Papadopoulou-Vrynioti K., **Bathrellos G.D.**, Skilodimou H.D., Kaviris G., Makropoulos K. (2013): Karst collapse susceptibility mapping considering peak ground acceleration in a rapidly growing urban area. *Engineering Geology*, 158: 77-88, doi: [10.1016/j.enggeo.2013.02.009](https://doi.org/10.1016/j.enggeo.2013.02.009), Elsevier (IF: 4.779).
14. Papadopoulou-Vrynioti K., Alexakis D., **Bathrellos G.D.**, Skilodimou H.D., Vryniotis D., Vasiliades E., Gamvroula D. (2013): Distribution of trace elements in stream sediments of Arta plain (western Hellas): The influence of geomorphological parameters. *Journal of Geochemical Exploration*, 134: 17-26, doi: [10.1016/j.gexplo.2013.07.007](https://doi.org/10.1016/j.gexplo.2013.07.007), Elsevier (IF: 3.352).
15. Rozos D., Skilodimou H.D., Loupasakis C., **Bathrellos G.D.** (2013): Application of the revised universal soil loss equation model on landslide prevention. An example from N. Euboea (Evia) Island, Greece. *Environmental Earth Sciences*, 70(7): 3255-3266, doi: [10.1007/s12665-013-2390-3](https://doi.org/10.1007/s12665-013-2390-3), Springer (IF: 2.180).
16. Papadopoulou-Vrynioti K., Alexakis D., **Bathrellos G.D.**, Skilodimou H.D., Vryniotis D., Vasiliades E. (2014): Environmental research and evaluation of agricultural soil of the Arta plain, western Hellas. *Journal of Geochemical Exploration*, 136: 84-92, doi: [10.1016/j.gexplo.2013.10.007](https://doi.org/10.1016/j.gexplo.2013.10.007), Elsevier (IF: 3.352).
17. Skilodimou H.D., **Bathrellos G.D.**, Maroukian H., Gaki-Papanastassiou K. (2014): Late Quaternary evolution of the lower reaches of Ziliana stream in south Mt. Olympus (Greece). *Geografia Fisica e Dinamica Quaternaria*, 37(1): 43-50, doi: [10.4461/GFDQ.2014.37.5](https://doi.org/10.4461/GFDQ.2014.37.5), Associazione Italiana di Geografia fisica e Geomorfologia (IF: 1.610).
18. **Bathrellos G.D.**, Skilodimou H.D., Maroukian H. (2014): The spatial distribution of Middle and Late Pleistocene Cirques in Greece. *Geografiska Annaler: Series A, Physical Geography*, 96(3): 323–338, doi: [10.1111/geoa.12044](https://doi.org/10.1111/geoa.12044), Wiley–Swedish Society for Anthropology and Geography (IF: 1.670).
19. Youssef A.M., Pradhan B., Al-Kathery M., **Bathrellos G.D.**, Skilodimou H.D. (2015): Assessment of rockfall hazard at Al-Noor Mountain, Makkah city (Saudi Arabia) using spatio-temporal remote sensing data and field investigation. *Journal of African Earth Sciences*, 101: 309–321, doi: [10.1016/j.jafrearsci.2014.09.021](https://doi.org/10.1016/j.jafrearsci.2014.09.021), Elsevier (IF: 1.603).
20. Kokinou E., Skilodimou H.D., **Bathrellos G.D.**, Antonarakou A., Kamberis E. (2015): Morphotectonic analysis, structural evolution/pattern of a contractional ridge: Giouchtas Mt., Central Crete, Greece. *Journal of Earth System Science*, 124(3): 587–602, doi: [10.1007/s12040-015-0551-3](https://doi.org/10.1007/s12040-015-0551-3), Springer (IF: 1.423).
21. Chousianitis K., DelGaudio V., Sabatakakis N., Kavoura K., Drakatos G., **Bathrellos G.D.**, Skilodimou H.D. (2016): Assessment of earthquake-induced landslide hazard in Greece: From Arias Intensity to spatial distribution of slope resistance demand. *Bulletin of the Seismological Society of America*, 106(1): 174–188, doi: [10.1785/0120150172](https://doi.org/10.1785/0120150172), Seismological Society of America (IF: 2.274).
22. **Bathrellos G.D.**, Karymbalis E., Skilodimou H.D., Gaki-Papanastassiou K., Baltas E.A. (2016): Urban flood hazard assessment in the basin of Athens Metropolitan city, Greece. *Environmental Earth Sciences*, 75(4): 319, doi: [10.1007/s12665-015-5157-1](https://doi.org/10.1007/s12665-015-5157-1), Springer (IF: 2.180).

Most Cited Paper



Most Cited Paper

23. **Bathrellos G.D.**, Skilodimou H.D., Chousianitis K., Youssef A.M., Pradhan B. (2017): Suitability estimation for urban development using multi-hazard assessment map. *Science of the Total Environment*, 575: 119–134, doi: [10.1016/j.scitotenv.2016.10.025](https://doi.org/10.1016/j.scitotenv.2016.10.025), Elsevier (IF: 6.551).
24. **Bathrellos G.D.**, Skilodimou H.D., Maroukian H., Gaki-Papanastassiou K., Kouli K., Tsourou T., Tsaparas N. (2017): Pleistocene glacial and lacustrine activity in the southern part of Mount Olympus (central Greece). *Area*, 49(2): 137–147, doi: [10.1111/area.12297](https://doi.org/10.1111/area.12297), Wiley - The Royal Geographical Society - The Institute of British Geographers (IF: 2.617).
25. **Bathrellos G.D.**, Skilodimou H.D., Maroukian H. (2017): The significance of tectonism in the glaciations of Greece. In: Hughes, P.D., Woodward, J.C. (Eds.) *Quaternary Glaciation in the Mediterranean Mountains. Geological Society Special Publication*, 433: 237-250, doi: [10.1144/SP433.5](https://doi.org/10.1144/SP433.5), The Geological Society of London (IF: 1.561).
26. **Bathrellos G.D.**, Kalivas D.P., Skilodimou H.D. (2017): Landslide susceptibility assessment mapping: a case study in Central Greece. In: Petropoulos, G.P., Islam, T. (Eds.) *Remote sensing of hydro-meteorological hazards*, 24: 493-512, doi: [10.1201/b20993](https://doi.org/10.1201/b20993), ISBN-13: 978-1498777582, CRC Press-Taylor & Francis.
27. Tsolaki-Fiaka S., **Bathrellos G.D.**, Skilodimou H.D. (2018): Multi-Criteria Decision Analysis for an Abandoned Quarry in the Evros Region (NE Greece). *Land*, 7(2): 43, doi: [10.3390/land7020043](https://doi.org/10.3390/land7020043), MDPI Publishing (IF: 2.429).
28. Skilodimou H.D., **Bathrellos G.D.**, Koskeridou E., Soukis K., Rozos D. (2018): Physical and anthropogenic factors related to landslide activity in the Northern Peloponnese, Greece. *Land*, 7(3): 85, doi: [10.3390/land7030085](https://doi.org/10.3390/land7030085), MDPI Publishing (IF: 2.429).
29. **Bathrellos G.D.**, Skilodimou H.D., Soukis K., Koskeridou E. (2018): Temporal and Spatial Analysis of Flood Occurrences in the Drainage Basin of Pinios River (Thessaly, Central Greece). *Land*, 7(3): 106, doi: [10.3390/land7030106](https://doi.org/10.3390/land7030106), MDPI Publishing (IF: 2.429).
30. Skilodimou H.D., **Bathrellos G.D.**, Chousianitis K., Youssef A.M., Pradhan B. (2019): Multi-hazard assessment modeling via multi-criteria analysis and GIS: A case study. *Environmental Earth Sciences*, 78(2): 47, doi: [10.1007/s12665-018-8003-4](https://doi.org/10.1007/s12665-018-8003-4), Springer (IF: 2.180).
31. **Bathrellos G.D.**, Skilodimou H.D. (2019): Land Use Planning for Natural Hazards. *Land*, 8(9): 128, doi: [10.3390/land8090128](https://doi.org/10.3390/land8090128), MDPI Publishing (IF: 2.429).
32. Makri, P., Stathopoulou, E., Hermides, D., Kontakiotis, G., Zarkogiannis, S.D., Skilodimou, H., **Bathrellos, G.D.**, Antonarakou, A., Scoullou, M. (2020): The environmental impact of a complex hydrogeological system on hydrocarbon-pollutants' natural attenuation: the case of the coastal aquifers in Eleusis, West Attica, Greece. *Journal of Marine Science and Engineering*, 8(12): 1018, doi: [10.3390/jmse8121018](https://doi.org/10.3390/jmse8121018), MDPI Publishing (IF: 2.033)
33. Skilodimou, H.D., **Bathrellos, G.D.**, Alexakis, D.E. (2021): Flood Hazard Assessment Mapping in Burned and Urban Areas. *Sustainability*, 13 (8): 4455, doi: [10.3390/su13084455](https://doi.org/10.3390/su13084455), MDPI Publishing (IF: 3.251).
34. **Bathrellos, G.D.**, Skilodimou, H.D., Zygouri, V., Koukouvelas, I. (2021): Landslide: A recurrent phenomenon? Landslide hazard assessment in mountainous areas of central Greece. *Zeitschrift für Geomorphologie*, 63 (1): 95 – 114, doi: [10.1127/zfg/2021/0670](https://doi.org/10.1127/zfg/2021/0670), Schweizerbart Science Publishers (IF: 1.122).
35. Youssef, A.M., Abu-Abdullah, M.M., AlFadail, E.A., Skilodimou, H.D., **Bathrellos, G.D.** (2021): The devastating flood in the arid region a consequence of rainfall and dam failure: Case study, Al-Lith flood on 23th November 2018, Kingdom of Saudi Arabia. *Zeitschrift für Geomorphologie*, 63 (1): 115 – 136, doi: [10.1127/zfg/2021/0672](https://doi.org/10.1127/zfg/2021/0672), Schweizerbart Science Publishers (IF: 1.122).
36. Alexakis, D.E., **Bathrellos, G.D.**, Skilodimou, H.D., Gamvroula, D.E. (2021): Land suitability Mapping Using Geochemical and Spatial Analysis Methods. *Applied Sciences*, 11 (12): 5404, doi: [10.3390/app11125404](https://doi.org/10.3390/app11125404), MDPI Publishing (IF: 2.679).
37. Alexakis, D.E., **Bathrellos, G.D.**, Skilodimou, H.D., Gamvroula, D.E. (2021): Spatial Distribution and Evaluation of Arsenic and Zinc Content in the Soil of a Karst Landscape. *Sustainability*, 13 (12): 6976, doi: [10.3390/su13126976](https://doi.org/10.3390/su13126976), MDPI Publishing (IF: 3.251).
38. Skilodimou, H.D., **Bathrellos, G.D.** (2021): Natural and Technological Hazards in Urban Areas: Assessment, Planning and Solutions. *Sustainability*, 13 (15): 8301, doi: [10.3390/su13158301](https://doi.org/10.3390/su13158301), MDPI Publishing (IF: 3.251).
39. Skilodimou, H.D., Antoniou, Vas., **Bathrellos, G.D.**, Tsami, E. (2021): Mapping of coastline changes in Athens Riviera: over the past 76 year's measurements. *Water*, 13 (15): 2135, doi: [10.3390/w13152135](https://doi.org/10.3390/w13152135), MDPI Publishing (IF: 3.103).

Most Cited Paper

Most Cited Paper

Most Cited Paper

40. Karpouza, M., Chousianitis, K., **Bathrellos, G.D.**, Skilodimou, H.D., Kaviris, G., Antonarakou, A. (2021): Hazard zonation mapping of earthquake-induced secondary effects using spatial multi-criteria analysis. *Natural Hazards*, 109(1): 637-669 doi: [10.1007/s11069-021-04852-0](https://doi.org/10.1007/s11069-021-04852-0), Springer (IF: 3.102).
41. **Bathrellos, G.D.**, Skilodimou, H.D. (2021): Estimation of Sand and Gravel Extraction Sites. *Zeitschrift für Geomorphologie*, doi: [10.1127/zfg/2021/0674](https://doi.org/10.1127/zfg/2021/0674), Schweizerbart Science Publishers (IF: 1.122).