

CV Dr. Ioannis D. Papanikolaou

I. BIOGRAPHICAL DATA

First Name – Surname : IOANNIS PAPANIKOLAOU
Name of Father - Mother : DIMITRIOS – VIRGINIA
Place of Birth : ATHENS
Year : 1975
High School Graduate : 1° LYCEUM OF BYRON
Registration Department of Geology,
University of Athens : OCTOBER 1994
Graduation from the Department of
Geology : JUNE 1998
Military Service : FEBRUARY 2004 - JUNE 2005
(SERGEANT IN THE ENGINEERS CORPS) IN
THE HELLENIC ARMY
Current Job : ASSOCIATE PROFESSOR, LABORATORY OF
MINERALOGY-GEOLOGY,
AGRICULTURAL UNIVERSITY OF ATHENS
Family status : MARRIED WITH ONE CHILD
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II. EDUCATION

- BA Geology (**1st class**), Department of Geology, University of Athens (June 1998).
- Member of the UCL Hazard Research Centre (2000-Today).
- **Ph.D** (1999-2003) Department of Earth Sciences **University College London (U.C.L.)** at University College London. Title: “Generating high-resolution seismic hazard maps through integration of earthquake geology, fault mechanics theory and GIS techniques in extensional tectonic settings”. Supervisors: Dr. Gerald Roberts, Prof. Bill McGuire.
- Postdoctoral Researcher (2005-2007) laboratory on Prevention and Management of Natural Hazards, **National and Kapodistrian University of Athens**, Greece. Postdoc Grant from the State Scholarship Foundation of Greece.
- Lecturer (407) (2007- 2011). Laboratory of Mineralogy-Geology, **Agricultural University of Athens**
- **Assistant Professor of General and Environmental Geology, Laboratory of Mineralogy-Geology**, Department of Earth and Atmospheric Sciences, Faculty of Sciences, Agricultural University (January 2012 - May 2013) **Department of Natural Resources Development and Agricultural Engineering**, Agricultural University of Athens (June 2013 – August 2017).
- **Associate Professor of Structural Geology, Geoenvironment and Natural Hazards** (September 2017- today), Section of Geological Sciences, **Department of Natural Resources Development and Agricultural Engineering**, Agricultural University of Athens.

III. POSITIONS OF RESPONSIBILITY - APPOINTED MEMBERSHIPS – AWARDS

- **Leader** of the International Focus Group “**Earthquake Geology and Seismic hazards** (EGSHaz) of **INQUA** (International Union for Quaternary Research, founded in 1928) since April 2016. The focus group has 625 members from 57 countries worldwide (<http://www.earthquakegeology.org>).
- Appointed (in April of 2017) from the Chair of EIOPA (European Insurance and Occupational Pensions Authority) as an **academic member of the Catastrophe Risk Workstream** for the SCR (Solvency Capital Requirement) review Project and the recalibration of the Standard Formula.
- In 12-15 April 2016 I have been invited as **Distinguished Lecturer in Earth Sciences** from the Department of Earth, Environmental and Natural Resources from the **University of Naples Federico II**, (Dipartimento di Scienze della Terra, dell’ Ambiente e delle Risorse, Universita Degli Studi Di Napoli Federico II) for a series of seminars regarding the Seismic Landscape, Earthquake Geology, Seismic Hazard Assessment and Catastrophe Models.
- Since the academic Year 2015-2016, I have been appointed as the **Msc Director** of the Postgraduate Program «**Geoenvironment and Modern Technology Applications for Infrastructure Works**» of the Department of Natural Resources Development and Agricultural Engineering.
- Appointed as a member of the advisory committee in **seismotectonics** of the **Earthquake Planning and Protection Organization** in Greece (Government Gazette 103/27-2-2014).
- Appointed (February 2014) as **Lead of the Strategic Areas** subgroup and **Topic Owner of Catastrophe Risk** and the Insurance and Reinsurance Stakeholder Group by the **European Insurance and Occupational Pensions Authority (EIOPA)** based in Frankfurt.
- Appointed in October 2013 and reappointed in April of 2016 as an Academic Member of the Insurance and Reinsurance Stakeholder Group at EIOPA (European Insurance and Occupational Pensions Authority) and reappointed in March 2016.
- Served as a member of the **INQUA TERPRO Advisory Board** 2012-2015 (Commission on Terrestrial Processes, Deposits, and History (TERPRO). TERPRO comprises and coordinates 7 focus groups (<http://www.terpro.org.ar/focus-areas.htm>).
- Announced as **Top reviewer** for the year 2008 from the scientific Journal of the Citation Index *Tectonophysics* (established in 1964 (2009JCR 5-year Impact Factor: 2.8), (2015JCR Impact Factor 2.7, 5-year Impact Factor: 3.1).
- Appointed as **Honorary Research Fellow** (15/02/2005) from the Department of Earth Sciences at **University College London (U.C.L.)**.
- 1998 Prize for excellence from the University of Athens
- Prize for excellence from the Institution of State Scholarships (for each year of study) in the Department of Geology 1994-1995, 1995-1996, 1996-1997, 1997-1998

IV. PUBLICATIONS – FULL PAPERS

1. Papanikolaou, D., Nomikou, P., **Papanikolaou, I.**, Lampridou, D., Rousakis, G., and Alexandri, M. (in press). Active tectonics and seismic hazard in Skyros Basin, North Aegean Sea, Greece. *Marine Geology*
2. Werner V., Baika K., Tzigounaki A., Reicherter K., **Papanikolaou I.**, Emde K., Fischer P., Vött A. (in press). Mid-Holocene tectonic geomorphology of northern Crete deduced from a coastal sedimentary archive near Rethymnon and a Late Bronze Age Santorini tsunamite candidate. *Geomorphology*
3. Deligiannakis, G., **Papanikolaou, I.D.**, Roberts, G. (2018). Fault Specific GIS Based Seismic Hazard Maps for the Attica Region, Greece. *Geomorphology* 306, 264-282.
4. Mechernich, S., Schneiderwind, S., Mason, J., **Papanikolaou, I.D.**, Deligiannakis, G., Pallikarakis, A., Binnie, S.A., Dunai, T.J., Reicherter, K. (2018). The Seismic History of the Pisia Fault (Eastern Corinth Rift, Greece) From Fault Plane Weathering Features and Cosmogenic ³⁶Cl Dating. *Journal of Geophysical Research: Solid Earth* 123, 4266-4284.
5. Pallikarakis A., Triantaphyllou, M.V., **Papanikolaou, I.D.**, Dimiza, M.D. Klaus Reicherter, K., and Migiros, G. (2018). Age Constraints and Paleoenvironmental Interpretation of a Borehole Sedimentary Sequence at the Eastern Part of Corinth Isthmus, Greece. *Journal of Coastal Research* 34, 602-617.
6. Werner, V., Baika, K., Fischer P., Tzigounaki, A., Tsigkou, A., Klaus Reicherter, K., **Papanikolaou, I.**, Vött, A. (2018). Palaeotsunami imprint of southwestern Crete (Greece) – examples from the ancient harbour of Sougia and the Palaiochora coastal plain. *Quaternary International* 473, 66-90.
7. Vött, A., Bruins, H.J., Gawehn, M., Goodman-Tchernov, B.N, De Martini, P.M., Kelletat, D., Mastronuzzi, G., Reicherter, K., Röbbke, B.R., Scheffers, A., Willershäuser, T., Avramidis, P., Bellanova, P., Costa, P.J.M., Finkler, C., Hadler, H., Koster, B., Lario, J., Reinhardt, E., Mathes-Schmidt, M., Ntageretzis, K., Pantosti, D., **Papanikolaou, I.**, Sansò, P., Scicchitano, G., Smedile, A., Szczuciński, W. (2018). Publicity waves based on manipulated geoscientific data suggesting climatic trigger for majority of tsunami findings in the Mediterranean – Response to ‘Tsunamis in the geological record: Making waves with a cautionary tale from the Mediterranean’ by Marriner et al. (2017). *Zeitschrift für Geomorphologie* doi: 10.1127/zfg_suppl/2018/0547, 39p.

8. **Papanikolaou, I.**, and Melaki, M. (2017). The Environmental Seismic Intensity Scale (ESI 2007) in Greece, newly added events and its relationship with Magnitude; Preliminary attenuation relationships for the Mediterranean. *Quaternary International*. 451, 37-55.
9. Schneiderwind, S., Boulton, S.J., **Papanikolaou, I.**, Kázmér, M., Reicherter, K. (2017). Numerical modeling of tidal notch sequences on rocky coasts of the Mediterranean Basin. *Journal of Geophysical Research: Earth Surface* 122, 1154-1181.
10. Cowie, P. A., Phillips, R. J., Roberts, G. P., McCaffrey, K., Zijerveld, L. J. J., Gregory, L. C., Faure Walker, J., Wedmore, L., Dunai, T. J., Binnie, S. A., Freeman, S.P., Wilcken, K., Shanks, R P., Huismans, R. S., **Papanikolaou, I.**, Michetti, A. M., Wilkinson, M. (2017). Orogen-scale uplift in the central Italian Apennines drives episodic behaviour of earthquake faults. *Scientific Reports* 7, 44858.
11. Mason, J., Schneiderwind, S., Pallikarakis, A., Mechernich, S., **Papanikolaou, I.**, & Reicherter, K. (2017). Hanging-wall colluvial cementation along active normal faults. *Quaternary Research* 88, 39-59.
12. Schneiderwind, S., Boulton, S.J., **Papanikolaou, I.**, Reicherter, K. (2017). Innovative tidal notch detection using TLS and fuzzy logic: Implications for palaeo-shorelines from compressional (Crete) and extensional (Gulf of Corinth) tectonic settings. *Geomorphology* 283, 189-200.
13. Mason, J., Schneiderwind S., Pallikarakis, A., Wiatr T., Mechernich, S., **Papanikolaou, I.**, and K. Reicherter (2016). Fault structure and deformation rates at the Lastros-Sfaka Graben, Crete. *Tectonophysics* 683, 216–232.
14. Schneiderwind, S., Mason, J., Wiatr, T., **Papanikolaou, I.**, and Reicherter, K. (2016). 3-D visualisation of palaeoseismic trench stratigraphy and trench logging using terrestrial remote sensing and GPR – a multiparametric interpretation. *Solid Earth* 7, 323–340.
15. Karamesouti, M., Petropoulos, G.P., **Papanikolaou, I.P.**, Kairis, O., Kosmas, K. (2016). Erosion rate predictions from PESERA and RUSLE at a Mediterranean site before and after a wildfire: Comparison & implications. *Geoderma* 261, 44–58.
16. Grutzner, C. Schneiderwind S., **Papanikolaou, I.**, Deligiannakis, G., Pallikarakis, A., and Reicherter, K.. (2016). New constraints on extensional tectonics and seismic hazard in northern Attica, Greece: the case of the Milesi Fault. *Geophysical Journal International* 204, 180–199.
17. **Papanikolaou, I.D.**, Van Balen, R., Silva, P.G., Reicherter, K. (2015). Geomorphology of Active Faulting and seismic hazard assessment: New tools and future challenges. *Geomorphology* 237, 1-13.

18. Wilkinson, M., Roberts, G.P., McCaffrey, Cowie, P.A., Faure Walker, J.P, **Papanikolaou, I.**, Phillips, R. J., Michetti, A.M., Vittori, E., Gregory, L., Wedmore, L. and Watson, Z. (2015). Slip distributions on active normal faults measured from LiDAR and field mapping of geomorphic offsets: an example from L'Aquila, Italy, and implications for modelling seismic moment release. *Geomorphology* 237, 130-141.
19. Louka, P., **Papanikolaou, I.**, Petropoulos, G.P., and Stathopoulos, N. (2016). A Deterministic Model to Predict Frost Hazard in Agricultural Land. Book Chapter 13 *In Geospatial Technology for Water Resource Applications*. Srivastava, P.K., Pandey, P.C., Kumar, P., Raghubanshi, A.S., Han, D. (Eds). ISBN: 978-149-871-968-1, CRC Press, Taylor and Francis, 197-225.
20. **Papanikolaou, I.D.**, Triantaphyllou, M., Pallikarakis, A., Migiros, G. (2015). Active faulting at the Corinth Canal based on surface observations, borehole data and paleoenvironmental interpretations. Passive rupture during the 1981 earthquake sequence? *Geomorphology* 237, 65-78.
21. Mason, J., Reicherter K. and **Papanikolaou, I.** (2015). The Lapithas Mountain faults and nearby archaeological damage, western Peloponnese, Greece. *Zeitschrift für Geomorphologie* 59, Suppl. 4, 189–213.
22. Wiatr, T., **Papanikolaou, I.**, Fernández-Steeger, T., Reicherter K. (2015). Bedrock fault scarp history: Insight from t-LiDAR backscatter behavior and analysis of structure changes. *Geomorphology* 228, 421–431.
23. Mavroulis, S.D., Fountoulis, I.G., Skourtsos, E.N., Lekkas, E.L. and **Papanikolaou, I.D.** (2013). Seismic intensity assignments for the 2008 Andravida (NW Peloponnese, Greece) strike-slip event (June 8, Mw=6.4) based on the application of the Environmental Seismic Intensity scale (ESI 2007) and the European Macroseismic scale (EMS-98). Geological structure, active tectonics, earthquake environmental effects and damage pattern. *Annals of Geophysics* 56, S0681, 1-27.
24. Wiatr T., Reicherter K., **Papanikolaou I.**, Fernández-Steeger T., Mason J. (2013). Slip vector analysis with high resolution t-LiDAR scanning. *Tectonophysics* 608, 947-957.
25. Foumelis, M., Fountoulis, I., **Papanikolaou, I.D.**, Papanikolaou, D. (2013). Geodetic evidence for passive control of a major Miocene tectonic boundary on the contemporary deformation field of Athens (Greece). *Annals of Geophysics* 56, S0674, 1-9.
26. Grützner, C., Barba, S., **Papanikolaou, I.**, Pérez-López, R. (2013). Earthquake geology: science, society and critical facilities. *Annals of Geophysics* 56, S0683, 1-6.

27. Vött, A. Reicherter, K., and **Papanikolaou, I.** (2013). Reconstructing and modeling palaeotsunami events by multi-proxy geoscientific analyses. *Zeitschrift für Geomorphologie* 57, Suppl. 4, 1–4.
28. **Papanikolaou, I.D.**, Roberts, G., Deligiannakis G., Sakellariou, A. and Vassilakis E. (2013). The Sparta Fault, Southern Greece: From segmentation and tectonic geomorphology to seismic hazard mapping and time dependent probabilities. *Tectonophysics* 597-598, 85-105.
29. Faure Walker, J.P., Roberts, G.P., Cowie, P.A., **Papanikolaou, I.**, Michetti, A.M., Sammonds, P., Wilkinson, M., McCaffrey, K.J.W. and Phillips, R. (2012). Relationship between topography, rates of extension and mantle dynamics in the actively-extending Italian Apennines. *Earth and Planetary Science Letters* 325-326, 76–84.
30. **Papanikolaou, I.D.** (2011). Uncertainty in intensity assignment and attenuation relationships: how seismic hazard maps can benefit from the implementation of the Environmental Seismic Intensity scale (ESI 2007). *Quaternary International* 242, 42-51.
31. **Papanikolaou, I.**, Lekkas, E., Fountoulis, I., Parcharidis, Is. and M. Foumelis (2010). Damage pattern and bedrock geology, primary and secondary surface ruptures of the 2009 (Mw=6.3) L' Aquila event and implications for seismic hazard planning. *Proceedings of the 11th International Association of Engineering Geology 2010*, Auckland, New Zealand, paper ID No. 068, 579-586.
32. Reicherter, K., **Papanikolaou, I.**, Roger, J., Mathes-Schmidt, M., Papanikolaou, D., Rössler, S., Grützner, C. and Stamatis, G. (2010). Holocene tsunamigenic sediments and tsunamis modeling in the Thermaikos Gulf area (northern Greece). *Zeitschrift für Geomorphologie* 54, Suppl 3, 99-126.
33. **Papanikolaou, I.D.**, Foumelis, M., Parcharidis, I., Lekkas, E.L. and Fountoulis, I. (2010). Deformation pattern of the 6 and 7 April 2009, Mw=6.3 and Mw=5.6 earthquakes in L' Aquila (central Italy) revealed by ground and space based observations. *Natural Hazards and Earth System Sciences* 10, 73-87.
34. Migiros, G., Antoniou, Vas., **Papanikolaou, I.** and Antoniou Var. (2010). Tectonic setting and deformation of the Kallidromo Mt, central Greece. *Proceedings of the 12th International Congress in Patras. Bulletin of the Geological Society of Greece*, XLIII 320-330.
35. **Papanikolaou, I.D.**, Papanikolaou, D.I, and Lekkas, E.L. (2009). Advances and limitations of the Environmental Seismic Intensity scale (ESI 2007) regarding near-field and far-field effects from recent earthquakes in Greece. Implications for the seismic hazard assessment. *The Geological Society, London, Special Publications* 316, 11–30.

36. Roberts, G. P., S. L. Houghton, C. Underwood, **I. Papanikolaou**, P. A. Cowie, P. van Calsteren, T. Wigley, F. J. Cooper, and J. M. McArthur (2009). Localization of Quaternary slip rates in an active rift in 105 years: An example from central Greece constrained by 234U-230Th coral dates from uplifted paleoshorelines. *Journal of Geophysical Research* 114, B10406, doi:10.1029/2008JB005818.
37. Faure-Walker J.P., Roberts, G.P., Cowie, P.A., **Papanikolaou, I.D.**, Sammonds, P.R., Michetti, A.M. and Phillips, R.J. (2009). Horizontal strain-rates and throw-rates across breached relay-zones: an example from active normal faults in the Apennines, Italy. *Journal of Structural Geology* 31, 1145-1160.
38. **Papanikolaou, I.** and Migiros, G. (2008). Brittle deformation and hydrogeological pattern of the Eastern Pelion area (Tsangarada). *Proceedings of the 8th International Hydrogeological Congress of Greece – 3rd MEM Workshop on Fissured Rocks Hydrology*, V.1, 347-360.
39. Migiros, G., Psomiadis, E., **Papanikolaou, I.**, Karamousalis, T., and Stamatis, G. (2008). Groundwater coastal discharge of the karstic system of the Mani peninsula, southern Peloponnesus-Greece. *Proceedings of the 8th International Hydrogeological Congress of Greece – 3rd MEM Workshop on Fissured Rocks Hydrology*, V.1, 317-326.
40. Lekkas, E.L., **Papanikolaou, I.D.**, Papanikolaou, D.I. and Danamos G. (2008). Correlating the damage pattern and the geological structure. Local site effects from the 2006 Mw=6.7 Kythira island intermediate depth event, SW Greece. *Proceedings of the 14th World Conference on Earthquake Engineering* October 12-17, 2008, Beijing, China (8 pages).
41. **Papanikolaou, I.D.**, Papanikolaou, D.I. and Lekkas, E.L. (2008). Low slip-rate faults around big cities: A challenging threat. The Afidnai fault as a case study for the city of Athens. *Proceedings of the 14th World Conference on Earthquake Engineering* October 12-17, 2008, Beijing, China (8 pages).
42. **Papanikolaou, I.D.** and Lekkas, E.L. (2008). Lithostratigraphic differentiation of the Gavrovo and Ionian flysch in the Southern Akarnania and the role of the Evinos and Agrilia transverse fault zones. *Hellenic Journal of Geosciences* (former Ann. Geol. Pays Hellen.) 43, 41-55.
43. **Papanikolaou, I.D.** and Roberts G.P. (2007). Geometry, kinematics and deformation rates along the active normal fault system in the Southern Apennines: implications for fault growth. *Journal of Structural Geology* 29, 166-188.
44. Papanikolaou, D. and **Papanikolaou, I.** (2007). Geological, geomorphological and tectonic structure of NE Attica and seismic hazard implications for the northern edge of the Athens Plain. *Bulletin of the Geological Society of Greece* 40, 425-438.

45. **Papanikolaou, I.D.** and Papanikolaou, D.I. (2007). Seismic hazard scenarios from the longest geologically constrained active fault of the Aegean. *Quaternary International* 171-172, 31-44.
46. **Papanikolaou, I.D.**, Roberts, G.P., and Michetti, A.M. (2005). Fault scarps and deformation rates in Lazio-Abruzzo, Central Italy: Comparison between geological fault slip-rate and GPS data. *Tectonophysics* 408, 147-176.
47. Roberts, G.P., Cowie, P., **Papanikolaou, I.** and Michetti, A.M. (2004). Fault scaling relationships, deformation rates and seismic hazards: An example from the Lazio-Abruzzo Apennines, central Italy. *Journal of Structural Geology* 26, 377-398.
48. Houghton, S.L., Roberts, G.P., **Papanikolaou, I.D.**, McArthur, J.M. and Gilmour, M.A. (2003). New ²³⁴U-²³⁰Th coral dates from the western Gulf of Corinth: Implication for extensional tectonics. *Geophysical Research Letters* 29, 10.1029/2003GL018112.
49. Roberts, G.P., Michetti, A.M., Cowie, P., Morewood, N.C. and **Papanikolaou, I.** (2002). Fault slip-rate variations during crustal-scale strain localisation, central Italy. *Geophysical Research Letters* 29, 10.1029/2001GL13529.
50. **Papanikolaou, I.D.**, and Lekkas, E.L. (2001). Syn-sedimentary tectonics in the Ionian Unit during the transition from carbonate to clastic sedimentation. *Bulletin of the Geological Society of Greece* 34, 191-198.

V. CITATIONS

Overall there are **448 citations** (excluding self citations) in Journals of the Citation Index and **53** in Journals or books that are not registered in the Citation Index, **therefore in total 501 citations**. In particular, according to:

- ISI Web of Science Researcher ID: F-3777-2012 : h-Index: 13, citations 567

The following map graph (from Web of Science) displays the geographic locations for publications that have cited ResearcherID:F-3777-2012 Papanikolaou Ioannis.

ISI Web of Science	
ResearcherID:	F-3777-2012
Other Names:	Papanikolaou I.
E-mail:	i.pap@aua.gr
Total Articles in Publication List:	41
Articles With Citation Data:	37
Sum of the Times Cited:	567
Average Citations per Article:	15.32
h-index:	13
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Citing Articles Network Map



The map graph displays the geographic locations for publications that have cited ResearcherID:F-3777-2012 Papanikolaou Ioannis.