

# Dr. George Papathanassiou

## Assistant Professor, AUTH



Dr. George Papathanassiou is an Assistant Professor of Engineering Geology at the Aristotle University of Thessaloniki, Department of Geology, while he had been in the past an Assistant Professor of Engineering Geology and Rock Mechanics at the Department of Civil Engineering, Democritus University of Thrace (2018-2021).

He was born in 1973 in Thessaloniki, Greece. He holds a Doctoral Degree, an MSc in Engineering Geology and a bachelor's degree in Geology from the Aristotle University of Thessaloniki, Department of Geology.

He has published more than 90 papers in international journals, book chapters and international conferences. His work was cited in more than 500 published articles.

He has participated in a large number of research contracts in the field of the geohazards such as liquefaction and landslide hazard, rock slope stability, development of geohazard-related databases, natural gas pipelines, and soil and rock mechanics.

His expertise includes liquefaction and ground failure, rockfall and landslide analysis, geohazards, earthquake engineering geology, post-event reconnaissance and use of LiDar and Unmanned Aerial Vehicles for rockfall-landslide hazard and monitoring.

Dr. Papathanassiou has been a member of professional and scientific bodies such as IAEG, and Greek Geological Society as well as a reviewer for numerous journals, such as "Engineering Geology", "Journal of Geotechnical and Geological Engineering", "Soil Dynamics and Earthquake Engineering" and others.

## **Personal Data**

Full name	George Papathanassiou		
Occupational field	Engineering Geologist	<b>phone</b>	+30 6944430466
Residency address	Navarino Sq. 18, Thessaloniki, Greece	<b>Fax</b>	
Nationality	Greek	<b>E-mail</b>	gpapatha@geo.auth.gr
Date of birth	23 October 1973	<b>Webpage</b>	<a href="http://gpapatha.weebly.com">http://gpapatha.weebly.com</a>

Orcid ID: <https://orcid.org/0000-0001-6720-9683>

[Scopus Author ID: 9939332000](#)

<b>Current position</b>	Assistant Professor
Affiliation	Department of Geology, Aristotle University of Thessaloniki, Greece

## **Education – Academic degrees**

<b>Title</b>	PhD in Geohazards (Soil liquefaction)
Affiliation	Aristotle University of Thessaloniki
<b>Title</b>	MSc in Engineering Geology
Affiliation	Aristotle University of Thessaloniki
<b>Title</b>	BSc in Geology
Affiliation	Aristotle University of Thessaloniki

## **Research activity**

### **Publications**

- 1) Peer reviewed journals: **47**
- 2) conference proceedings: **48**

### **citation overview**

- 1) citations: **724**
- 2) h index: 14
- 3) reviewer in journals: **7**

### **Research experience**

- 1) Participation in European and National projects: **28**

### **Scholarships - Awards**

1. State Scholarship Foundation, Greece. Scholarship award for the PhD research. Duration 2003-2006
2. Scholarship of Research Committee, Aristotle University of Thessaloniki. Duration: 12 months

## **Selected publications**

- 1 Papathanassiou, G., Pavlides, S., Christaras, B., Pitilakis, K., 2005. Liquefaction case histories and empirical relations of earthquake magnitude versus distance from the broader Aegean region, Journal of Geodynamics, Volume 40, Issues 2-3, Pages 257-278
- 2 Papathanassiou, G., 2008. LPI-based approach for calibrating the severity of liquefaction-induced failures and for assessing the probability of liquefaction surface evidence, Engineering Geology, Volume 96, Issues 1-2, Pages 94-104

- 3 Papathanassiou G., Pavlides Sp. 2011. GIS-based database of historical liquefaction occurrences in the broader Aegean region, DALO v1.0, Quaternary International, DOI:10.1016/j.quaint.2011.03.049
- 4 Papathanassiou, G, Valkaniotis, S., Ganas, A., Pavlides Sp. 2013. GIS-based statistical analysis of the spatial distribution of earthquake-induced landslides in the island of Lefkada, Ionian Islands, Greece, Landslides, Vol 10, Issue 6, pp 771-783, doi:10.1007/s10346-012-0357-1
- 5 Papathanassiou, G., Mantovani A., Tarabusi, G., Rapti D., Caputo R. 2015. Assessment of liquefaction potential for two liquefaction prone areas considering the May 20, 2012 Emilia (Italy) earthquake, Engineering Geology, Vol 189, pp 1–16, <http://dx.doi.org/10.1016/j.enggeo.2015.02.002>
- 6 Grendas N., Marinos V., Papathanassiou G., Ganas Ath., Valkaniotis S. 2018. Engineering geological mapping of earthquake-induced landslides in South Lefkada Island, Greece: evaluation of the type and characteristics of the slope failures, Environmental Earth Sciences, volume 77(12):425
- 7 Valkaniotis S., Papathanassiou G., Ganas Ath. 2018. Mapping an earthquake-induced landslide based on UAV imagery; case study of the 2015 Okeanos landslide, Lefkada, Greece, Engineering Geology, volume 245, Pages 141-152
- 8 Papathanassiou G., Valkaniotis S., Ganas Ath. 2021. Spatial patterns, controlling factors and characteristics of landslides triggered by strike-slip faulting earthquakes; case study of Lefkada island, Greece. Bulletin of Engineering Geology and the Environment, Vol 80, 3747–3765 <https://doi.org/10.1007/s10064-021-02181-x>

#### **Selected National and European Projects**

- 1 Foundation design in seismically "problematic" soils under strong ground shaking
- 2 Seismic hazard harmonization in Europe
- 3 Characterization of site conditions in Greece for realistic seismic ground motion simulations: pilot application in urban areas
- 4 Assessment of expected seismic motions, neotectonic setting and related geohazards along the alternative TAP pipeline path in the broader Pageo - Symvolon area.

#### **Areas of research**

- Liquefaction and ground failure
- Rockfall and landslide analysis
- Geohazards
- Earthquake engineering geology
- LiDar and Unmanned Aerial Vehicles for rockfall-landslide hazard and monitoring.