

Curriculum Vitae

Zygouri Vasiliki

PhD Geologist

Department of Geology

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Personal Information

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Education

- 2009 **PhD:** Department of Geology, University of Patras, Greece, Supervisor: Prof. Koukouvelas Ioannis, Title of Dissertation: «Fault Interaction and Seismic Hazard Assessment in the Eastern Part of the Gulf of Corinth».
- 2004 **M.Sc.:** Department of Geology, University of Patras, Greece, Supervisor: Prof. Koukouvelas Ioannis, Title of Dissertation: «Morphotectonic analysis of the western part of the Eliki Fault, based on the application of geomorphological indices».
- 2002 **B.Sc.:** Department of Geology, University of Patras, Greece

Fellowships – Awards

- 2014-2016 **Research Grant.** University of Patras, Greece, PostDoctoral Resercher (C. Caratheodory Grant)
- 2005-2008 **Research Grant.** General Secretariat for Research and Technology of the Greek Ministry of Development, Greece

Teaching Activities

- 2019-present, **Academic Scholar** in “Earthquake Geology” and “Applications of Remote Sensing in Geology”, Department of Geology University of Patras, Greece.
- 2018-2019, **Academic Scholar** in “Earthquake Geology” and “Applications of Remote Sensing in Geology”, Department of Geology, University of Patras, Greece.
- 2018, **Lecturer** (fixed term/ad hoc) assigned a teaching course entitled, “Applications of Remote Sensing in Geology”, Department of Geology University of Patras, Greece.
- 2015, **Invited Speaker**, “Natural Hazards” on MSc program entitled «Geosciences and the Environment», Department of Geology University of Patras, Greece.
- 2010-2014, **Lecturer**, in “Environmental Geology”, School of Technological Applications/Department of Environment Technologists, Technological Educational Institute of Ionian Islands, Greece.
- 2005-2009, **Teaching Assistant** in courses entitled “Geological Mapping”, “Structural Geology” and “Geology of Greece” Department of Geology, University of Patras, Greece.

Research Projects

- 2014-2016 «*Study of the landslide evolution in the Northern part of Peloponnese*». Caratheodory PostDoctoral Research Grant, University of Patras, Greece.
- 2014 «*Upgrading Infrastructure for Earthquake Seismic Protection and Enhancing Service through Excellence Actions - Palaeoseismological survey along large active faults*». National Observatory of Athens, Geodynamic Institute.
- 2005-2008 «*Relation Study of seismic hazard in the eastern Corinth area with the deep structure and fault linkage*». General Secretariat of Research and Technology.
- 2004-2005 «*Scalar properties of fault arrays*» Caratheodory Research Grant, University of Patras, Greece.

Organization of Conferences, Workshops, Events

- 2019, 2nd EAGE Eastern Mediterranean workshop; Athens, Field Trip Leader in Western Gulf of Corinth.
- 2018, 2nd Scientific Meeting of the Committee of Structural Geology of the Hellenic Geological Society, Patras, Secretary of the Organizing Committee.
- 2010, 12th International Congress of the Hellenic Geological Society, Patras, Member of the Organizing Committee.
- 2006, 11th International Symposium on Natural and Human Induced Hazards, Patras, Member of the Organizing Committee.

Summary of Scientific Production and Impact

- h-index: 5 (Scopus).
- Refereed Publications – Papers: 9 / Other Publications – Books, Proceedings: 7 / Abstracts in congresses: 37
- Reviewer statistics: 16 reviews; 4 Journals

Selected Publications

A. In peer-reviewed journals

Koukouvelas, I., Nikolakopoulos, K., **Zygouri, V.**, Kyriou, A. UAV data and field measurements for post seismic monitoring of a cliff under intensive mass-wasting: the case of the Egremni area, Lefkada Island, Greece. *Geomorphology* (in press).

Nicolakopoulos, K., Kyriou, A., Koukouvelas I., **Zygouri, V.**, Apostolopoulos, D., 2019. Combination of Aerial, Satellite, and UAV Photogrammetry for Mapping the Diachronic Coastline Evolution: The case of Lefkada Island. *ISPRS International Journal of Geo-Information*, 8, Open Access.

Zygouri, V., Koukouvelas, I., 2019. Landslides and Natural Dams in the Krathis River, north Peloponnese, Greece. *Journal of the Engineering Geology and the Environment*, 78, 207-222.

Koukouvelas, I.K., **Zygouri, V.**, Nikolakopoulos K., Verroios S., 2018. Treatise on the tectonic geomorphology of active faults: The significance of using a Universal Digital Elevation Model. *Journal of Structural Geology*, 116, 241-252.

- Koukouvelas, I.K., **Zygouri, V.**, Papadopoulos, G.A., Verroios, S., 2017. Holocene record of slip-predictable earthquakes on the Kenchreai Fault, Gulf of Corinth, Greece. *Journal of Structural Geology*, 94, 258-274.
- Koukouvelas, I., Litoseliti, A., Nikolakopoulos, K., **Zygouri, V.**, 2015. Earthquake triggered rockfalls and their role in the development of a rock slope: the case study of Skolis Mountain, Greece. *Engineering Geology*, 191, 71-85.
- Zygouri, V.**, Koukouvelas, I.K., Kokkalas, S., Xypolias, P., Papadopoulos, G.A., 2015. The Nisi Fault as a key structure for understanding the active deformation of the NW Peloponnese, Greece. *Geomorphology*, 237, 142-156.
- Tsapanos, T., Koravos, G., **Zygouri, V.**, Tsapanos, M., Kortsari, A., Kijko, A., Kalogirou, E., 2011. Seismic Hazard Analysis for the city of Corinth, Central Greece. *Journal of Balkan Geophysical Society*, 14, 1 – 14.
- Zygouri, V.**, Verroios, S., Kokkalas, S., Xypolias, P., Koukouvelas, I., 2008. Scaling properties within the Gulf of Corinth, Greece; comparison between offshore and onshore active faults. *Tectonophysics*, 453, 193-210.

B. List of Papers in peer-reviewed conference proceedings:

- Zygouri, V.**, Verroios, S., Anninou, A., Koukouvelas I., 2018. Fuzzy cognitive mapping vs. Statistic approach of geomorphological analysis of active faults: Preliminary results from a case study within the Corinth Graben, Greece. *IFAC Papers OnLine, Conference Paper Archive*, vol. 51, 372-377.
- Zygouri, V.**, Koukouvelas, I., Ganas, A., 2016. Palaeoseismological analysis of the East Giouchtas Fault, Heraklion Basin, Crete (Preliminary results). *Bulletin of the Geological Society of Greece*, vol. L, 555-565.
- Zygouri, V.**, Koukouvelas, I., 2016. Techniques of rockfall inventory in earthquake prone rock slopes. *Bulletin of the Geological Society of Greece*, vol. L, 1756-1765.
- Zygouri, V.**, Koukouvelas, I., 2015. Evolution of rockfalls in the Northern part of the Peloponnese, Greece. *IOP Conference Series: Earth and Environmental Science*, vol. 26, 1-11
- Zygouri, V.**, 2010. Probabilistic Hazard Assessment, using Arias Intensity Equation, in the eastern part of the Gulf of Corinth (Greece). *Bulletin of the Geological Society of Greece*, vol. XLIII, 527 – 535.
- Verrios, S., **Zygouri, V.**, Kokkalas, S., 2004. Morphotectonic analysis in the Eliki Fault Zone (Gulf of Corinth, Greece). *Bulletin of the Geological Society of Greece*, vol. XXXVI, 1706-1715.
- Pavlidis, S., Koukouvelas, I., Stamatopoulos, L., Agrafiotis, D., Alexandris, G.A., **Zygouri, V.**, Sboras, S., 2001. Paleoseismological investigation of the eastern part of the Helike Fault (Gulf of Corinth). *Bulletin of the Geological Society of Greece*, vol. XXXIV, 199-205.

Editorial Contribution

- Conference Volume: «PLANET EARTH: Geological Processes and Sustainable Development», Patras 2010, (Editors: Koukis G., Zelilidis A., Koukouvelas I., Papatheodorou G., Geraga M., **Zygouri V.**).

- TextBook for University Students: «Geology and Earthquakes» Koukouvelas I., Kokkalas S., **Zygouri V.** 2011. Disigma Publication, p. 412 (in Greek).
- Proceedings Volume: «10 years after the 2008 Movri Mtn M6.5 Earthquake; An earthquake increasing our knowledge for the deformation in a foreland area», Patras 2018, (Editors: Koukouvelas I., Ganas A., **Zygouri V.**, Verroios S.).
- Field Trip Guide: «Anatomy of the west part of the Gulf of Corinth: Active processes over the last 4 Ma», Athens, 2019, (Editors: Koukouvelas I., **Zygouri V.**).