CURRICULUM VITAE

November 2022

Full name : Ilias Lazos Date of birth : 19/08/1989

Profession : BSc, MSc, PhD Geologist **Place of residence :** Chania (Crete), Greece

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EDUCATION

- 10/2021 present: Postdoctoral Researcher, School of Mineral Resources Engineering, Technical University of Crete, Greece
- 03/2016 03/2021: Doctor of Philosophy, School of Geology, Aristotle University of Thessaloniki, Greece *PhD Thesis*: "Contribution in the study of active faults of the Greek region using geodetic methods"
- 11/2012 01/2015: Master of Science, School of Geology, Aristotle University of Thessaloniki, Greece Specialization field: Applied and Environmental Geology Postgraduate Diploma Thesis: "Geotechnical evaluation of strength and deformability of molassic formations of Mesohellenic trough. Estimation of geotechnical behavior and temporary support for underground constructions"
- **09/2007 11/2012**: Bachelor's degree, School of Geology, Aristotle University of Thessaloniki, Greece

LANGUAGE SKILLS

• English: First Certificate in English, University of Cambridge./ Certificate of Competency in English, The University of Michigan.

COMPUTER SKILLS

- Operating systems: Windows, Linux
- Applications: Microsoft office (Word, Excel, PowerPoint), Acrobat

- Specialized software packages: ArcGIS, Aquachem, Autocad, CorelDraw X6, Coulomb 3.4, Dips, GeoCalculator, Global Mapper, Inkscape, MOVE, QGIS, RocLab, SAGA, Swedge, Stereo32, StereoNet, Surfer 13
- Statistical analysis software packages: SPSS

PROFESSIONAL LICENSE - MEMBER OF THE GEOTECHNICAL CHAMBER - MILITARY OBLIGATIONS -

- Professional License holder in the Categories 20 (Class A), 21 (Class A) and 27 (Class A)
- Member of the Geotechnical Chamber of Greece. Specialization: Geologist
- 01/2015 09/2015: Fulfilling of the military obligations

PUBLICATIONS

- I. Papers chapters in peer-reviewed journals and books
 - 1) Manoutsoglou, E., **Lazos, I.**, Steiakakis, E., Vafeidis, A., 2022. The Geomorphological and Geological Structure of the Samaria Gorge, Crete, Greece Geological Models Comprehensive Review and the Link with the Geomorphological Evolution. Applied Sciences, 12(20), 10670 (https://doi.org/10.3390/app122010670)
 - 2) Lazos, I., Papanikolaou, I., Sboras, S., Foumelis, M., Pikridas, C., 2022. Geodetic Upper Crust Deformation Based on Primary GNSS and INSAR Data in the Strymon Basin, Northern Greece Correlation with Active Faults. Applied Sciences, 12(18), 9391 (https://doi.org/10.3390/app12189391)
 - **3) Lazos, I.**, Sboras, S., Chousianitis, K., Kondopoulou, D., Pikridas C., Bitharis S., Pavlides, S., 2022. Temporal evolution of crustal rotation in the Aegean region based on primary geodetically-derived results and palaeomagnetism. Acta Geodaetica et Geophysica (https://doi.org/10.1007/s40328-022-00379-3)
 - **4) Lazos, I.**, Pikridas, C., Chatzipetros, A., Pavlides, S., 2021. Determination of local active tectonics regime in central and northern Greece, using primary geodetic data. Applied Geomatics, 13, 3-17 (https://doi.org/10.1007/s12518-020-00310-x)
 - 5) Lazos, I., Sboras, S., Chousianitis, K., Bitharis S., Mouzakiotis E., Karastathis V., Pikridas C., Fotiou A., Galanakis D., 2021. Crustal deformation analysis of Thessaly (central Greece) before the March 2021 earthquake sequence near Elassona-Tyrnavos (Northern Thessaly). Acta Geodynamica et

- Geomaterialia, 18 (3), 379-385 (https://doi.org/10.13168/AGG.2021.0026)
- 6) Pavlides, S., Chatzipetros, A., Sboras, S., Lazos, I., Georgiadis, G., Muceku, Y., Reci, H., 2021. Surface Effects and Active Geotectonic Regime of the November 26, 2019, Durres Earthquake. Albanian Journal of Natural and Technical Sciences, 52, 39-53.
- 7) Lazos, I., Sboras, S., Pikridas, C., Pavlides, S., Chatzipetros, A., 2021. Geodetic analysis of the tectonic crustal deformation pattern in the North Aegean Sea, Greece. Mediterranean Geoscience Reviews, 3, 79-94 (https://doi.org/10.1007/s42990-021-00049-6)
- 8) Sboras, S., Lazos, I., Bitharis, S., Pikridas, C., Galanakis, D., Fotiou, A., Chatzipetros, A., Pavlides, S., 2021. Source modelling and stress transfer scenarios of the October 30, 2020 Samos earthquake: seismotectonic implications. Turkish Journal of Earth Sciences, 30, 699-717 (https://doi.org/10.3906/yer-2107-25)
- 9) Lazos, I., Chatzipetros, A., Pavlides, S., Pikridas, C., Bitharis S., 2020. Tectonic crustal deformation of Corinth Gulf, Greece, based on primary geodetic data. Acta Geodynamica et Geomaterialia, 17 (4), 413-426 (https://doi.org/10.13168/AGG.2020.0030)
- **10**) Sboras, S., **Lazos, I.**, Mouzakiotis, E., Karastathis, V., Pavlides, S., Chatzipetros, A., 2020. Fault modelling, seismic sequence evolution and stress transfer scenarios for the July 20, 2017 (MW 6.6) Kos–Gökova Gulf earthquake, SE Aegean. Acta Geophysica, 68, 1245-1261 (https://doi.org/10.1007/s11600-020-00471-8)
- 11) Karagianni, A., Lazos I., Chatzipetros, A., 2019. Remote Sensing Techniques in Disaster Management: Amynteon Mine Landslides, Greece. In: Altan O., Chandra M., Sunar F., Tanzi T. (eds) Intelligent Systems for Crisis Management. Gi4DM 2018. Lecture Notes in Geoinformation and Cartography. Springer, Cham. (https://doi.org/10.1007/978-3-030-05330-7_9)

II. Papers in peer-reviewed international conference proceedings

1) Lazos, I., Grigorakis, E., Gouskos, Z., Steiakakis, E., Vafidis, A., Manoutsoglou, E., 2022. Investigation of the Geological Structure and Assessment of the Groundwater Potential in Samaria Region (W. Crete). *Proceedings of the 12th*

- *International Hydrogeological Congress*, Nicosia, Cyprus, 20-22 March 2022, p. 326-329.
- 2) Pikridas, C., Lazos, I., Chatzipetros, A., Pavlides, S., 2019. Determination of local active tectonics regime in central and northern Greece, using primary geodetic data. *Proceedings of the 4th Joint International Symposium on Deformation Monitoring (JISDM2019)*, Athens, Greece, 15-17 May, 2019, paper 122.
- 3) Karagianni, A., Lazos, I., Chatzipetros, A., 2018. Remote Sensing Techniques in Disaster Management: Amynteon Mine Landslides, Greece. *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, Istanbul, Turkey, 18-21 March 2018, Volume XLII-3/W4, p. 269-276.
- **4) Lazos, I.**, Chatzipetros, A., 2018. Use of the Terrain Ruggedness Index for indentifying individual neotectonic blocks: application to Heraklion basin, Greece. *Proceedings of the 9th International INQUA Meeting on Paleoseismology, Active Tectonics and Archeoseismology (PATA)*, Possidi, Greece, 25-27 June 2018, p. 138-140.
- 5) Lazos, I., Kondopoulou, D., Chatzipetros, A., Pavlides, S., Bitharis, S., Pikridas, C., 2018. Rotation rates of the South Aegean region, Greece, based on primary geodetic data Comparison between geodetic and palaeomagnetic results. Proceedings of the 9th International INQUA Meeting on Paleoseismology, Active Tectonics and Archeoseismology (PATA), Possidi, Greece, 25-27 June 2018, p. 141-144.
- 6) Lazos, I., Stergiou, C.L., Chatzipetros, A., Pikridas, C., Bitharis, S., Melfos, V., 2018. Active tectonics (extensional regime and rotations) and Tertiary mineralization occurrences within Central Macedonia, Greece. *Proceedings of the 9th International INQUA Meeting on Paleoseismology, Active Tectonics and Archeoseismology (PATA)*, Possidi, Greece, 25-27 June 2018, p. 145-148.
- 7) Pavlides, S., Chatzipetros, A., **Lazos, I.**, 2018. The Role of Geological Faults in Mine Stability: Amynteon mine, Western Macedonia (Greece) as a Case Study. *Proceedings of the 14th International Symposium of Continuous Surface Mining (ISCSM2018)*, Thessaloniki, Greece, 23-26 September 2018, paper 38.
- **8)** Sboras, S., **Lazos, I.**, Mouzakiotis, E., Karastathis, V., Pavlides, S., Chatzipetros, A., 2018. Epicentral relocation, fault modelling, static stress change distribution and modelled

- surficial displacements of the July 20, 2017 (M_w 6.6) Kos-Bodrum earthquake sequence. *Proceedings of the 9th International INQUA Meeting on Paleoseismology, Active Tectonics and Archeoseismology (PATA)*, Possidi, Greece, 25-27 June 2018, p. 247-250.
- 9) Oikonomidis, D., **Lazos, I.**, 2014. Estimation of soil erosion rate by the use of remote sensing, GIS and precipitation data. Case study: Orestis (Kastoria) Lake Watershed, Northern Greece. *Proceedings of the 10th International Hydrogeological Congress of Greece*, Thessaloniki, Greece, 8-10 October 2014, Volume 1, p. 577-586.

III. Abstracts/Extended abstracts

- 1) Manoutsoglou, E., **Lazos, I.**, Steiakakis, E. Vafidis, A., 2022. The Geological Structure of the wider Samaria Gorge Area, White Mountains, Crete (Greece) A Comprehensive Review of the Geological Models. *Proceedings of the 16th International Congress of the Geological Society of Greece (GSG2022)*, Patras, Greece, 17-19 October 2022, Ext. Abs. GSG2022-136.
- **2)** Sboras, S., Galanakis, D., **Lazos, I.**, Mouzakiotis, E., Karastathis, V., Pavlides, S., 2022. Normal faulting for five of the ten strong (Mw ≥ 6.0) earthquakes that occurred during the last 5 years in the Aegean. *Proceedings of the 16th International Congress of the Geological Society of Greece (GSG2022)*, Patras, Greece, 17-19 October 2022, Ext. Abs. GSG2022-127.
- **3) Lazos, I.**, Kanellopoulos, C., Sboras, S., Moforis, L., Kallithrakas-Kontos, N., Steiakakis, E., Manoutsoglou, E., 2022. Lithofacies and geochemical study of the Trypali Unit at the Samaria Gorge, Western Crete, Greece Lithofacies and geochemical study of the Trypali Unit at the Samaria Gorge, Western Crete, Greece. *Proceedings of the XXII International Congress of the Carpathian-Balkan Geological Association (CBGA)*, Plovdiv, Bulgaria, 7-11 September 2022, p. 266.
- **4)** Lazos, I., Sboras, S., Kanellopoulos, C., Vafidis, A., Manoutsoglou, E., 2022. Geological and geophysical mapping within the Samaria Gorge, Lefka Ori, Western Crete, Greece and new insights by 3D visualization. *Proceedings of the XXII International Congress of the Carpathian-Balkan Geological Association (CBGA)*, Plovdiv, Bulgaria, 7-11 September 2022, p. 147.
- 5) Chatzipetros, A., Lazos I., 2021. How can geodetic data help identify regional and local crustal deformation patterns?

- Examples from the broader Aegean area. *Proceedings of the International Workshop on Active Tectonics and Seismicity of the Aegean Region with Special Emphasis on the Samos Earthquake Struck on 30 October 2020 (ASASE2021)*, Turkey, 20-21 May 2021, MA-23 (p. 31).
- 6) Pavlides, S., Chatzipetros, A., Sboras, S., Delogkos, E., Lazos I., 2021. Active Tectonics of the broader Aegean region. An overview and new challenges. *Proceedings of the International Workshop on Active Tectonics and Seismicity of the Aegean Region with Special Emphasis on the Samos Earthquake Struck on 30 October 2020 (ASASE2021)*, Turkey, 20-21 May 2021, MA-1 (p. 9).
- 7) Pavlides, S., Chatzipetros, A., Sboras, S., Galanakis, D., Pikridas, C., Bitharis, S., **Lazos, I.**, Kremastas, E., Papaioannou Ioannis (Jonh), 2021. The northern Thessaly strong earthquakes of March 3rd and 4th and their neotectonic setting. Preliminary results. *Proceedings of the International Workshop on Active Tectonics and Seismicity of the Aegean Region with Special Emphasis on the Samos Earthquake Struck on 30 October 2020 (ASASE2021)*, Turkey, 20-21 May 2021, MA-26 (p. 38).
- 8) Sboras, S., Lazos, I., Bitharis, S., Pikridas, C., Galanakis, D., Fotiou, A., Chatzipetros, A., Pavlides S., 2021. Source modelling and stress transfer scenarios of the October 30, 2020 Samos earthquake: seismotectonic implications. *Proceedings of the International Workshop on Active Tectonics and Seismicity of the Aegean Region with Special Emphasis on the Samos Earthquake Struck on 30 October 2020 (ASASE2021)*, Turkey, 20-21 May 2021, MA-26 (p. 34).
- **9**) Chatzipetros, A., **Lazos, I.**, Papachristou, M., Pikridas, C., 2019. Use of primary geodetic data in identifying the active deformation in geothermal areas: the Aristino (NE Greece) case study. *Proceedings of the 7th Meeting of International Earth Science Colloquium on the Aegean Region*, Izmir, Turkey, 7-11 October 2019, p. 155.
- **10)** Lazos I., Chatzipetros, A., Pavlides, S., Bitharis S., Pikridas, C., 2019. Active deformation pattern of the Peloponnese region, based on geostatistical analysis of primary geodetic data. *Proceedings of the 15th International Congress of the Geological Society of Greece (GSG2019)*, Athens, Greece, 22-24 May 2019, paper 344.
- **11)** Lazos, I., Chatzipetros, A., Pavlides, S., Pikridas, C., Bitharis, S., 2019. Contribution in determination of the tectonic setting of Corinth Gulf based on primary geodetic data

- processing. *Proceedings of the 7th Meeting of International Earth Science Colloquium on the Aegean Region*, Izmir, Turkey, 7-11 October 2019, p. 79.
- **12) Lazos, I.**, Chatzipetros, A., Pikridas, C., Pavlides, S., 2019. Geostatistical approach of active deformation in Peloponnese Greece, using primary geodetic data. *Proceedings of the 23rd Active Tectonics Research Group Meeting*, Istanbul, Turkey, 15-18 October 2019, p.139-140.
- **13) Lazos, I.**, Kondopoulou, D., Pavlides, S., Chatzipetros, A., Pikridas C., Bitharis, S., 2019. Determination of the rotational regime in the North Aegean region based on palaeomagnetic and geodetic data. *Proceedings of the 15th International Congress of the Geological Society of Greece (GSG2019), Athens, Greece, 22-24 May 2019, paper 341.*
- **14)** Lazos, I., Pavlides, S., Chatzipetros, A., Pikridas C., Bitharis, S., 2019. Active Tectonics in Central and Northern Greece, Based on New Seismotectonic and Primary Geodetic Data. *Proceedings of the 72nd Geological Congress of Turkey, Ankara, Turkey, 28 January 1 February 2019.*
- **15)** Lazos, I., Stergiou, C., Chatzipetros, A., Melfos, V., Voudouris, P., Pikridas, C., 2019. Active Tectonics and Pliocene-Pleistocene volcanic rocks of Almopia and Charopo (Sitsi-Kamen) areas in Northern Greece. *Proceedings of the 15th International Congress of the Geological Society of Greece (GSG2019)*, Athens, Greece, 22-24 May 2019, paper 350.
- **16**) Pavlides, S., Sboras, S., **Lazos, I.**, Chatzipetros A., 2019. The 2017 two strong earthquakes of eastern Aegean: Lesvos and Kos-Bodrum. *Proceedings of the 23rd Active Tectonics Research Group Meeting*, Istanbul, Turkey, 15-18 October 2019, p. 63-64.
- 17) Zervopoulou, A., Chatzipetros, A., Pavlides S., Lazos I., 2019. Pattern of Active Deformation in the Area of Thermaikos Gulf and Pieria (Northern Greece), Based on Morphotectonics and Satellite Geodesy. *Proceedings of the 15th International Congress of the Geological Society of Greece (GSG2019)*, Athens, Greece, 22-24 May 2019, paper 349.
- **18**) Bitharis, S., Pikridas, C., **Lazos, I.**, Chatzipetros, A., Pavlides, S., 2018. Modeled vs observed ground deformation caused by the 2014 Cephalonia and 2015 Lefkada earthquake sequences, Ionian Islands, Greece. *European Geosciences Union General Assembly 2018*, Vienna, Austria, 8-13 April

- 2018, Geophysical Research Abstracts, Vol. 20, EGU2018-2572.
- **19**) Chatzipetros, A., **Lazos, I.**, Pavlides, S., Pikridas, C., Bitharis, S. 2018. Determination of the active tectonic regime of Thessaly, Greece: A geodetic data based approach. *Abstracts of the XXI International Congress of the Carpathian Balkan Geological Association (CBGA)*, Salzburg, Austria, 10-13 September 2018, p. 227.
- **20**) **Lazos, I.**, Bitharis, S., Chatzipetros, A., Pavlides, S., Pikridas, C., 2018. The June 12th, 2017 Lesvos Island, Greece, earthquake: comparison between observed and modeled ground deformation. *European Geosciences Union General Assembly 2018*, Vienna, Austria, 8-13 April 2018, Geophysical Research Abstracts, Vol. 20, EGU2018-343.
- **21)** Lazos, I., Chatzipetros, A., Pavlides, S., Bitharis, S., Pikridas, C., Sboras, S., 2018. Ground deformation modelling, caused by the recent earthquakes of Ionian Islands, Greece. *Proceedings of the 2nd Scientific Meeting of the Tectonics Committee of the Geological Society of Greece*, Patra, Greece, 13 June 2018, p. 26-27.
- **22) Lazos, I.**, Chatzipetros, A., Pavlides, S., Bitharis, S., Pikridas, C., 2018. New geodetic evidence of quantitative and qualitative tectonic analysis of the Corinth Gulf, Greece. *European Geosciences Union General Assembly 2018*, Vienna, Austria, 8-13 April 2018, Geophysical Research Abstracts, Vol. 20, EGU2018-2577.
- **23**) **Lazos, I.**, Chatzipetros, A., Pavlides, S., Bitharis, S., Pikridas, C., 2018. Tectonics of the Corinth Gulf, Greece, based on primary geodetic data. *Proceedings of the 2nd Scientific Meeting of the Tectonics Committee of the Geological Society of Greece*, Patra, Greece, 13 June 2018, p. 24-25.
- **24**) Stergiou, C.L., **Lazos, I.**, Melfos, V., Chatzipetros, A., Voudouris, P., Pikridas, C., Bitharis, S., 2018. Links between the neotectonic regime and the Tertiary mineralization of the Vertiskos and Kerdylion Units, N. Greece. *Abstracts of the XXI International Congress of the Carpathian Balkan Geological Association (CBGA*), Salzburg, Austria, 10-13 September 2018, p.281.
- **25**) **Lazos, I.**, Chatzipetros, A., 2016. Determination of Individual Neotectonic Blocks Using the Terrain Ruggedness Index (TRI): Application to the Heraklion Basin, Crete Island. *Proceedings of the 1st Tectonics and Structural Geology Meeting*, Athens, Greece, 6 December 2016, p. 29-30.

- **26**) Chatzipetros, A., Caputo, R., Helly, B., Pavlides, S., **Lazos, I.**, Tsodoulos, I., Koukouvelas, I., 2014. Use of LIDAR in earthquake geology: first results from northern Thessaly faults. *Proceedings of the 10th International Congress of the Hellenic Geographical Society*, Thessaloniki, Greece, 22-24 October 2014, Extended abstracts, p. 154-155.
- 27) Chatzipetros, A., Lazos, I., 2014. A GIS approach to the identification of individual neotectonic blocks; preliminary application to Heraklion basin, Crete Island, Greece. *Proceedings of the XX Congress of the Carpathian Balkan Geological Association*, Tirana, Albania, 24-26 September 2014, p. 92.
- 28) Chatzipetros, A., Pavlides, S., Lazos, I., 2014. Earthquake-induced mass movements in Cephalonia during the January February 2014 sequence and their effect on the terrain. *Proceedings of the 10th International Congress of the Hellenic Geographical Society*, Thessaloniki, Greece, 22-24 October 2014, Extended abstracts, p. 340.

WORKSHOPS – SEMINARS – CONFERENCES

- Participation in 17 Workshops Seminars Conferences
- Member of the Organizing Committee of the "9th International INQUA Meeting on Paleoseismology, Active Tectonics and Archeoseismology (PATA), 25 27 June 2018, Possidi Chalkidiki, Greece".

REVIEWING EXPERIENCE

- Member of the Reviewer Board of "Sustainability" journal (IF 3.889, Q1, MDPI)
 (https://www.mdpi.com/journal/sustainability/submission_reviewers
- Reviewer in the following journals:
 - 1. Agriculture (IF 3.408, Q1, MDPI)
 - 2. Applied Sciences (IF 2.838, Q2, MDPI)
 - 3. Earthquake Science (IF 0.000, -, Elsevier
 - 4. Electronics (IF 2.690, Q2, MDPI)
 - 5. Energies (IF 3.004, Q1, MDPI)
 - 6. Geocarto International (IF 4.889, Q1, Taylor & Francis Online)
 - 7. Geosciences (IF 0.000, Q2, MDPI)
 - 8. Geotechnics (IF 0.000, -, MDPI)
 - 9. ISPRS International Journal of Geo-Information (IF 3.099, Q1, MDPI)

- 10.Minerals (IF 2.818, Q2, MDPI)
- 11.Remote Sensing (IF 5.349, Q1, MDPI)
- 12. Sustainability (IF 3.889, Q2, MDPI)

TEACHING EXPERIENCE

2017 - 2019 Teaching staff of the laboratory exercises of the

undergraduate course "Geotectonic Evolution of the Broader Greek Area", Department of Geology,

Aristotle University of Thessaloniki

2016 - 2018 Teaching staff of the laboratory exercises of the

undergraduate course "Geology of Greece", Department of Geology, Aristotle University of

Thessaloniki

12/2013 Teaching staff of the laboratory exercises of the

undergraduate course "Structural Geology", Department of Geology, Aristotle University of

Thessaloniki

12/2013 Teaching staff of laboratory exercises, Department

of Geology, Aristotle University of Thessaloniki

WORK EXPERIENCE

10/2021-present Scientific Associate of the Applied Research

Programme "3D geological structure modelling of Samaria Gorge, aiming at the investigation of hydrogeological conditions and water reservoir levels in the core of Samaria National Park (Lefka Ori), Western Crete", funded by the "Green Fund —

Hellenic Ministry of Environment and Energy"

09-12/2019 Scientific Associate in "Geological mapping –

Water level measurements - Construction of

thematic maps"

Research programme: "Hydrogeological research for the investigation of the possibilities of covering the water needs from underground reserves in the

wider area of Lagoura, Argos Orestiko"

08-12/2019 Scientific Associate in "Laboratory support for the

collection, processing and analysis of geodetic data

related to seismic faults"

Research program: "Interreg V – A, Greece – Italy Programme, 2014 – 2020, a Cross-border Cooperation Programme between Greece and Italy co-funded by the European Union: Ermis project – Earthquake disasters management integrated system"

08-12/2019

Scientific Associate in "Laboratory support for the processing of radon detectors"

Research program: "Interreg V – A, Greece – Italy Programme, 2014 – 2020, a Cross-border Cooperation Programme between Greece and Italy co-funded by the European Union: Ermis project – Earthquake disasters management integrated system"

08-12/2019

Scientific Associate in "Laboratory support for collection, processing and analysis of geodetic data related to forest cover types and landslide phenomena"

Research program: "Interreg V – A, Greece – Italy Programme, 2014 – 2020, a Cross-border Cooperation Programme between Greece and Italy co-funded by the European Union: Ermis project – Earthquake disasters management integrated system"

01-09/2019

Scientific Associate in "Geological mapping in the wider Kozani area, northwestern Greece"

Research program: "Development of methodology for the protection and optimal management of karst aquifers supplying aqueducts of the Municipality of Kozani"

07/2012

Internship in METRO of Thessaloniki