

# CURRICULUM VITAE

## PERSONAL INFORMATION

**Name** Eirini S. Papadaki  
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**Nationality** Hellenic (Greek)  
**Date of birth** 08/06/1978  
**Marital status** Married, 1 child

## EDUCATION

**December 2020 – today:** PhD Candidate, Department of Food Science and Nutrition, University of Thessaly.

*Title of Thesis:* Study on the use of rock extracts for potable water purification from toxic metals and pesticides and the formulation of bioactive food (enriched mineral water).

**2006:** MSc in *Geotechnology & Environment*, Department of Mineral Resources Engineering, Technical University of Crete (TUC)

*Dissertation:* Analysis and assessment of ASTER satellite images for the detection of geological faults in Western Crete.

**2003:** MSc in *Environmental Management*, Environmental Management Programme, Mediterranean Agronomic Institute of Chania.

*Dissertation:* Fault detection by the integration of remote sensing and geographic information systems (GIS): the case of Sporades Islands - Greece. (Part of the project was carried out in collaboration with the Department of Geography, University of the Aegean).

Grade: 89.3 out of 100

**2000:** BSc in *Geology*, Department of Geology, School of Sciences, Aristotle University of Thessaloniki.

Grade: 7.4 out of 10

*Dissertation:* Geothermal studies of South Pieria region.

## WORKING EXPERIENCE

**7/7/2021-todate** Research Associate. Research Program : “Formulation of bioactive mineral water with the addition of fruit and vegetable extracts, and extracts of greek aromatic herbs, hemp, Moringa oleifera leaves and leaves of Greek olive tree varieties, produced with innovative technology (deep eutectic solvents) or the addition of humic and fulvic acids (Biofunctional-Water)”.

- 1/11/2015-31/12/2017** Secretarial service (duties pertaining to economic, technical and managerial support), Department of Food Science & Nutrition, University of the Aegean.
- 1/1/2009 – 30/9/2011** Research associate (tenure track) in SOFIA programme (FP7). Satellite Radar image processing using interferometry (INSAR-DINSAR). Department of Mineral Resources Engineering, Technical University of Crete (TUC).
- 01/09/2008-31/12/2008** Research associate (tenure track). Satellite Radar image processing using interferometry (INSAR-DINSAR). Department of Mineral Resources Engineering, Technical University of Crete (TUC).
- 01/06/2008-31/08/2008** Member of the organising committee, ‘**Gravity, Geoid & Earth Observation 2008**’, an IAG International Symposium that was held in Chania, Crete, Greece.
- 01/03/2007-31/05/2008** Research associate (tenure track) in FALASARNA research programme. Satellite Radar image processing using interferometry. Department of Mineral Resources Engineering, Technical University of Crete (TUC).
- 01/10/2006-31/12/2006** Research associate (tenure track) in PYTHAGORAS research programme (EPEAEK II, Ministry of Education)). Satellite Radar image processing using interferometry. Department of Mineral Resources Engineering, Technical University of Crete (TUC).
- 03/5/2004-31/08/2005** Research associate (tenure track) in EMERIC I research programme (EPEAEK II, Ministry of Education). Satellite image processing. Department of Mineral Resources Engineering, Technical University of Crete (TUC).

## **TEACHING EXPERIENCE**

- Academic Year 2012** Adjunct Lecturer, Department of Environmental Engineering, TUC.  
*Courses:* Geographic Information Systems (GIS)
- Adjunct Lecturer, Department of Natural Resources & Environment, Technological Educational Institute (T.E.I.) of Crete at Chania.  
*Courses:* Geographic Information Systems (GIS).
- 21/10/2011 – 5/12/2011** Seminar teaching in «Sustainable Development», training programme «Environment and Sustainable Development» in the framework of «Design and implementation of distance learning programmes, General Secretariat of Ministry of Education.

- Academic Year 2011:** Adjunct Lecturer, Department of Environmental Engineering, TUC.  
*Courses:* Geographic Information Systems (GIS)
- Adjunct Lecturer, Department of Mineral Resources Engineering, TUC.  
*Courses:* Remote Sensing
- Academic Year 2009:** Adjunct Lecturer, Department of Mineral Resources Engineering, TUC.  
*Courses:* Geodesy
- Academic Year 2008-2009** Adjunct Lecturer, Department of Natural Resources & Environment, Technological Educational Institute (T.E.I.) of Crete at Chania.  
*Courses:* Remote Sensing and Image Processing, Geographic Information Systems (GIS).
- Adjunct Lecturer, Department of Mineral Resources Engineering, TUC.  
*Courses:* Remote Sensing, Environmental Applications of Remote Sensing, Geodesy, Geographic Information Systems (post-graduate)
- Academic Year 2006-2007** Adjunct Lecturer, Department of Natural Resources & Environment, Technological Educational Institute (T.E.I.) of Crete at Chania.  
*Courses:* Remote Sensing and Image Processing, Geographic Information Systems (GIS).
- Adjunct Lecturer, Department of Mineral Resources Engineering, TUC.  
*Courses:* Remote Sensing, Geodesy.
- Academic Year 2003-2004** Adjunct Lecturer, Department of Natural Resources & Environment, Technological Educational Institute (T.E.I.) of Crete at Chania.  
*Courses:* Geographic Information Systems (GIS).

## **RESEARCH PAPERS**

- 1) Vrantsi E., Lakka A., Bozinou E., Athanasiadis V., **Papadaki E.**, Dourtoglou V. and Lalas S. (2021). Humic and Fulvic Acids as specific sorbents of herbicides in water. CLEAN - Soil, Air, Water (DOI: 10.1002/clen.202000467).
- 2) **Papadaki E.S.** (2014). Monitoring subsidence at Messara basin using radar interferometry. Environ Earth Sci. 72(6): 1965-1977, DOI 10.1007/s12665-014-3105-0
- 3) Tripolitsiotis A, Steiakakis C, **Papadaki E**, Agioutantis Z, Mertikas S, Partsinevelos P (2014). Complementing geotechnical slope stability and land movement analysis using satellite DInSAR. Central European Journal of Geosciences, 6(1): 56-66
- 4) **E. Papadaki**, A. Tripolitsiotis, C. Steiakakis, Z. Agioutantis, S. Mertikas, P. Partsinevelos, P. Schilizzi (2013). Land Movement Monitoring at the Mavropigi Lignite Mine Using Spaceborne D-Insar, Proc. SPIE 8795, First International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2013 - April 8-10, 2013, Paphos, Cyprus), 87951A (August 5, 2013); doi:10.1117/12.2027100
- 5) **Papadaki E.S.**, S.P. Mertikas & A. Sarris (2011). Identification of lineaments with

possible structural origin using ASTER images and DEM derived products in Western Crete, Greece. *EARSel eProceedings*, 10(1): 9-26.

## **CONFERENCE PAPERS**

- 1) **Papadaki E.**, A. Tripolitsiotis, C. Steiakakis, Z. Agioutantis, S. Mertikas, P. Partsinevelos and P. Schilizzi (2013). Land Movement Monitoring at the Mavropigi Lignite Mine using Spaceborne D-InSAR, First International Conference on Remote Sensing and Geoinformation of Environment, 9 April 2013, Paphos, Cyprus.
- 2) **Papadaki Eirini**, 2011. Subsidence at Messara Basin, Crete, using radar interferometry techniques. Workshop for knowledge dissemination SOFIA-FP7 research programme. Technical Chamber of Western Crete (TEE), Chania-Crete-Greece, 1st July 2011 (in greek).
- 3) Mertikas S.P, **E.S. Papadaki** and Ev. Paleologos (2010). Radar interferometry techniques for monitoring subsidence induced by excessive groundwater pumping in Crete, Greece. ESA Living Planet Symposium 2010, Bergen, Norway, 28 Jun. - 2Jul. 2010 (ESA SP- 686).
- 4) Mertikas S.P and **E.S. Papadaki** (2009). Radar interferometry for monitoring land subsidence due to over-pumping ground water in Crete, Greece. Advances in the Science and Applications of SAR Interferometry, ESA-ESRIN, Frascati, Italy, 30 Nov. - 4 Dec. 2009 (ESA SP-677).
- 5) Sarris A., **Papadaki I.**, Mertikas St., Zervoudakis M., Fassoulas Ch., Georgila K., Kokkinaki M., Trigkas V., Terrain Mapping of Lineaments, Faults and Landslides of the Island of Crete through GIS and Satellite Remote Sensing Techniques, ESRI 21st European Conference on ArcGIS Users, Athens, November 7-8, 2006.
- 6) **Papadaki Eirini**, 2002. Remote Sensing and Geographic Information Systems for fault detection: The case of Sporades Islands, Greece. 7th National Conference on Island Cartography: Mytilene, 23-26 October 2002 (in Greek).

## **OTHER QUALIFICATIONS**

### **Languages**

- English: Fluent (Proficiency / Cambridge).
- French: Elementary (Certificat).

### **Compute Skills**

- European Computer Driving License (**ECDL Core**): Windows XP, Word XP, Excel XP, Internet Explorer 6.0, Outlook Express, PowerPoint XP, Access XP.
- Very good knowledge on **GIS**: ArcView 3.2 (+ Spatial Analyst, +3D Analyst, Image Analysis Extensions), ArcView 9x.
- Very good knowledge on **Erdas Imagine 9.1** for satellite image processing (filters, principal component analysis, Band ratios, RGB composites, mosaics).
- Basic training for the **ENVI** remote sensing software, for satellite image processing.
- Basic knowledge on **Matlab 6.5**.
- Basic knowledge on **LINUX/UNIX**.
- Good knowledge on **DIAPASON** (Differential Interferometric Automated Process Applied to Survey Of Nature) and **ENVI SARSCAPE** for radar interferometry.
- Basic knowledge on ROI-PAC for radar interferometry.

## **AFFILIATIONS**

- Member of the Geotechnical Chamber of Greece.

## **OTHER QUALIFICATIONS**

- Driving licence
- Registered teacher of English language

## **RESEARCH INTERESTS**

Geological and environmental applications of satellite remote sensing, geographic information systems and radar interferometry.

References at your disposal upon demand