

Olga Sykioti

Senior Researcher, IAASARS/NOA

- Doctorate of Philosophy Ph.D. in Remote Sensing and Geosciences, University Pierre et Marie Curie, France (Dec. 1994)
- Master of Science M.Sc. in Hydrology, Geostatistics and Geochemistry, University Pierre & Marie Curie, France (1991)
- Master of Science M.Sc. in Remote Sensing, University Pierre & Marie Curie, France (1990)
- 4-yr Bachelor of Science B.Sc., National and Kapodistrian University of Athens, Faculty of Geology and Geoenvironment (1989)

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PROFESSIONAL EXPERIENCE

Dec. 2017- today: Senior Researcher, IAASARS/National Observatory of Athens, Greece.

2011- 2017: Associate Researcher

2006-2011: Assistant Researcher

2001-2006: Research support specialist

1997-2001: Post-doc, IAASARS/National Observatory of Athens, Greece

1995-1997: Scientific/technical consultant, private sector

AREAS OF EXPERTISE

Remote Sensing, imaging spectroscopy, machine learning, pattern recognition, geology, mineral exploration, mapping of terrestrial surfaces (earth and planetary), radiological marine pollution, ground deformation, land cover/use.

HONORS / FELLOWSHIPS / OTHER RELEVANT EXPERIENCE

- Dec.2021-today: President of the Remote Sensing and Space Applications Committee of the Geological Society of Greece.
- 2010: Fulbright Research Fellow, USA.
- 1991-1994: MESR fellow, France.
- 1990: G. Papastamatiou Award for Excellence in BSc, Hellenic Institute of Geology and Mineral Exploration, Greece.
- 1989-1992: Fellowship from the Academy of Athens, Greece.

PUBLICATIONS

She has co-authored 47 papers published in peer-reviewed journals and reviewed papers in international conference proceedings; Total number of citations ~700; h-index: 10 (Web of Science), 11 (Scholar).

Representative papers follow:

- Anifadi A., Sykioti O., Koutroumbas K.D. and E. Vassilakis, A Novel Spectral Index for Identifying Ferronickel (Fe–Ni) Laterites from Sentinel 2 Satellite Data, *Natural Resources Research*, 2022, in print.
- Mavrokefalou G., Sykioti O., Kittis G. and E. Florou, Estimations of ¹³⁷Cs activity concentrations using marine parameters issued from MODIS and Copernicus Marine Environment Monitoring Services (CMEMS) data in Souda Bay (Crete, Greece) for the period 2011–2019, *Environmental Science and Pollution Research*, 49, 2022 (doi: 10.1007/s11356-022-19356-y).
- Tompolidi A-M., Sykioti O., and K.D. Koutroumbas, Spectral Unmixing for Mapping a Hydrothermal Field in a Volcanic Environment Applied on ASTER, Landsat-8/OLI, and Sentinel-2 MSI Satellite Multispectral Data: The Nisyros (Greece) Case Study, *Remote Sensing*, 2020 (doi:10.3390/rs12244180).
- Daskalopoulou V., Sykioti O., Karagiannopoulou C., Koutroumbas K., A. Rontogiannis, Application of Spectral Unmixing on Hyperspectral Data of the Historic Volcanic Products of Mt. Etna (Italy), *Proceedings*, 2(7), 329, 2018 (doi:10.3390/ecrs-2-05142).
- Mylona E., Sykioti O., Koutroumbas K.D., and A.A. Rontogiannis, Spectral unmixing-based clustering of high-spatial resolution hyperspectral imagery, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 2017 (doi: 10.1109/JSTARS.2017.2687703).
- Mylona E.A., Sykioti, O.A., Koutroumbas, D.K., Rontogiannis A.A., Joint Spectral Unmixing and Clustering for identifying homogenous regions in hyperspectral images, *IEEE IGARSS*, Milan (Italy), 2015 (doi: 10.1109/IGARSS.2015.7326295).
- Themelis K.E., Schmidt F., Sykioti O., Rontogiannis A.A., Koutroumbas K.D., and I.A. Daglis, On the Unmixing of Mex/OMEGA hyperspectral data, *Planetary and Space Science*, 2012 (doi: 10.1016/j.pss.2011.11.015).
- Sykioti O., Paronis D., Stagakis S., and A. Kyparissis, Band Depth analysis of CHRIS/PROBA data for the study of a Mediterranean natural ecosystem. Correlations with Leaf optical properties and ecophysiological parameters, *Remote Sensing of Environment*, 2011 (doi: 10.1016/j.rse.2010.11.003).
- Stagakis S., Markos N., Sykioti O., and A. Kyparissis, Monitoring canopy biophysical and biochemical parameters in ecosystem scale using satellite hyperspectral imagery: An application on a *Phlomis fruticosa* Mediterranean ecosystem using multiangular CHRIS/PROBA observations, *Remote Sensing of Environment*, 2010 (doi: 10.1016/j.rse.2009.12.006).

STUDENT AND POSTDOC SUPERVISION

(Co-)Supervision of 5 PhD theses. Supervision of 2 Post-doc researchers. Supervision of 7 MSc dissertations on EO. Advanced courses in hyperspectral imaging processing and

applications in MSc in Space Science Technology and Applications, invited lectures in other MSc programs. Member of 2 PhD dissertation examination committees.

RESEARCH FUNDING AND PROJECTS)

- Personal funding: ~400,00.00 €
- Participation in >40 international and national research projects as (co)-PI, WP leader or task leader.

LANGUAGES

English, French, Spanish, Hindi: fluent, Greek (mother tongue).

OTHER

- Member of the Organizing and Scientific Committees of 6 International Conferences.
- Member of 2 election committees for Academic posts
- Guest Editor of "Remote Sensing" MDPI journal
- Regular reviewer in high-ranked international refereed journals in remote sensing
- International reviewer (e.g. German Aerospace Center- Russian Federation funding projects during 2016-2020).