

PERSONAL INFORMATION



Vasileios Kalogirou

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Nationality Greek

WORK EXPERIENCE

1 Jun 13–Present

GMES/Copernicus Project Officer

European Union Satellite Centre, Torrejon de Ardoz, Madrid (Spain)

Supporting the activities of the Copernicus Unit, Capability Development Division.

Contributing in European projects on the field of geospatial intelligence (GEOINT) and border surveillance. Cooperation with European data providers and value adding partners. Technical advice and expertise, including QA and validation tasks.

1 May 08–31 Mar 13

Remote Sensing Projects Scientist

Remote Sensing Applications Consultants (RSAC) Ltd. c/o European Space Agency, Frascati (Italy)

Providing consultancy to the EO Science, Applications and Future Technologies Department of the European Space Agency, in Frascati (Italy).

Scientific and technical advisor to numerous R&D EO projects, following their implementation from the definition up to the delivery phase.

EO data management (from ordering to cataloging), EO data processing for verification and testing purposes (multi-spectral and SAR), feasibility studies for projects, investigations for automation of processing chains, development of processing algorithms, imagery (optical and SAR) manipulation, publication of scientific results, creation of communication material.

ESA-delegated Project Manager for the International Charter for Space & Major Disasters.

1 Jun 04–31 May 05

Research Assistant

Laboratory of Forest Management & Remote Sensing, Aristotle University, Thessaloniki (Greece)

EO Project Implementation: "Land Cover/Use Mapping of the prefecture of Drama, using Landsat-5 TM data".

Image processing tasks, map creation and production, in-situ validation (GPS field survey) and final report production. EO data processing was implemented using ERDAS IMAGINE, while ArcGIS was used for map creation.

1 Nov 02–31 Dec 02

Intern in GIS

GeoInfo, Applied Studies and Research, Thessaloniki (Greece)

Digitization of Forest Maps and GIS analysis in MapInfo and ArcView.

EDUCATION AND TRAINING

1 Oct 09–Present

Doctor of Philosophy in Geoinformation

University of Rome - Tor Vergata, Rome (Italy)

Modules: Understanding Earth Observation: Electromagnetic Foundations of Remote Sensing, Neural

Networks in Remote Sensing.

Thesis: Analysing burned forest canopies with SAR data and microwave scattering modeling.

15 Sep 05–1 Nov 06

Master of Science in Remote Sensing

University College of London, (United Kingdom)

Modules: Data Handling & Analysis, Image Understanding, Principles & Practice of Remote Sensing, Mapping Science, Digital Mapping, Global Change Monitoring, Topographic Mapping etc.

Dissertation: Simulation of discrete-return LiDAR signal from conifer stands (Distinction)

28 Sep 99–9 Jul 04

Bachelor Degree (Ptychio) in Forestry and Natural Environment

Aristotle University, Thessaloniki (Greece)

Modules: Geographical Information Systems, Aerial Photography, Environmental Remote Sensing, Plant Physiology, Forest Informatics, Forest Management, Soil Science etc.

Dissertation: AutoCAD and forestry applications.

PERSONAL SKILLS

Mother tongue(s)

Greek

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
One-year study in UK and more than 5 years of work in English-speaking environments					
Italian	C1	B2	B2	B2	B1
Living experience of 5 years in Italy					
Spanish	A2	A1	A1	A1	A1
Living experience in Spain					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](http://www.cerl.eu)

Computer skills

- Image Processing packages: Advanced knowledge of ENVI and ESA Toolboxes as BEAM and NEST; Good knowledge of ERDAS IMAGINE. In addition good knowledge of Adobe Photoshop and GIMP for aesthetic improvement of images.
- Development packages: Confident user of IDL for image manipulation and good user of Matlab for generic data analysis. Limited experience with C/C++, FORTRAN and Python.
- Geographic Information Systems: Good knowledge of ArcGIS, Quantum GIS; Knowledge of basic Web-GIS concepts using Geoserver.
- Experienced user of the Microsoft Office suite, email clients and HTML editing for website creation.
- Basic understanding of servers, firewalls, web services.

Driving licence

B

ADDITIONAL INFORMATION

Honours and awards

- 2010. Imagery Grant (2 IKONOS-2 images) by the DigitalGlobe Foundation.
- 2007. Best MSc Thesis award of the Remote Sensing and Photogrammetry Society (UK), sponsored by Leica Geosystems.
- 2005. NATO scholarship through the Greek Ministry of Foreign Affairs for his postgraduate studies.

- 2002. Greek State Scholarships Foundation (IKY), yearly scholarship during the 3rd year of his studies.

Selected publications

Book contributions:

[1] Giri, C.P. (eds), 2012. Remote sensing of land use and land cover: Principles and applications. CRC Press. [Co-author in one Chapter].

Peer-reviewed journal publications:

[1] Kalogirou, V., Ferrazzoli, P., Della Vecchia, A., Foumelis, M., 2014. On the SAR Backscatter of Burned Forests: A Model-Based Study in C-Band, Over Burned Pine Canopies. IEEE Transactions on Geoscience & Remote Sensing (in press).

[2] Kalogirou, V., Ramos Perez, J., Arino, O., 2012. A first analysis on Culture-MERIS products. Remote Sensing Letters, 4, 211-218.

[3] Arino, O., Kalogirou, V., Ramos Perez, J., Pinnock, S., 2012. Culture-MERIS: An ESA weekly service for agriculture. Remote Sensing Letters, 3, 461-469.

[4] Disney, M.I., Kalogirou, V., Lewis, P., Prieto-Blanco, A., Hancock, S., Pfeifer, M., 2010. Simulating the impact of discrete-return lidar system and survey characteristics over young conifer and broadleaf forests. Remote Sensing of Environment, 114, 1546-1560.

Conferences:

[1] Kalogirou, V., Foumelis, M., Ferrazzoli, P., 2013. Hyper-temporal SAR backscattering trajectories of land cover over Athens (Greece). ESA Living Planet Symposium 2013, Edinburgh, United Kingdom (in press).

[2] Kalogirou, V., Solimini, C., Paganini, M., Arino, O., 2013. Deforestation Mapping using the Google Earth Engine: First Experiments in Boqueron, Paraguay. ESA Living Planet Symposium 2013, Edinburgh, United Kingdom (in press).

[3] Kalogirou, V., Ferrazzoli, P., Guerriero, L., Della Vecchia, A., 2011. Coupling the Tor Vergata microwave scattering model with a plant architectural model. Geophysical Research Abstracts, Vol. 13, EGU General Assembly 2011.

[4] Arino, O., Ramos, J., Kalogirou, V., Defourny, P., Achard, F., 2010. GlobCover 2009. ESA Living Planet Symposium 2010, 28th June - 2nd July, Bergen, Norway. SP-686.

Reports:

[1] Bontemps, S., Defourny, P., Van Bogaert, E., Arino, O., Kalogirou, V., Ramos Perez, J., 2011. GlobCover 2009 - Product Description and Validation Report. Available through ESA Ionia Website.

[2] Arino, O., Kalogirou, V., Perez, J.R., 2009. The GlobCover Project. Terrestrial Observations of Our Planet, GTOS Biennial Report 2008/09, edited by Salvatori, V., FAO.

References

[1] Mr. Marc Paganini, Division of Exploitation and Services, European Space Agency, Italy
marc.paganini@esa.int , +39 06-94180563

[2] Dr. Olivier Arino, Division of Exploitation and Services, European Space Agency, Italy
olivier.arino@esa.int , +39 06-94180564

[3] Dr. Mathias Disney, Department of Geography, University College London, UK
mdisney@geog.ucl.ac.uk , +44 20-76790592

[4] Dr. Ioannis Gitas, Faculty of Forestry and Natural Environment, Aristotle University of Thessaloniki, Greece. igitas@for.auth.gr , +30 2310-992699

[5] Dr. Denis Bruckert, Head of GMES/Copernicus Unit, EU SatCen, Spain
denis.bruckert@satcen.europa.eu , +34 91-6786074