


PERSONAL INFORMATION

Georgia DOXANI

 50, Via del Castello str., IT 00044, Frascati, Rome, Italy (Home)
Galileo Galilei str, IT 00044, Frascati, Rome, Italy (Work)

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Sex Female | Date of birth 08/10/1979 | Nationality Greek

WORK EXPERIENCE

October 2016 - Today

Instructor of the course 'Environmental Remote Sensing' in the School of Rural and Surveying Engineering, AUTH

Aristotle University of Thessaloniki (AUTH)

Responsible for this course in the frame of the research program 'Acquisition Academic Teaching Experience for Young PhD Scientists at the Aristotle University of Thessaloniki'

May 2015 - Today

Remote Sensing Expert

SERCO S.p.A, Via Sciadonna 24/26, 00044, Frascati, Italy

Remote Sensing Expert for services to the European Space Agency: ESA / ESRIN, Sensor Performance, Products and Algorithms Section, Earth Observation Mission Management Division / Ground Segment and Mission Operations, Department / Directorate of Earth Observation Programmes

- Quality Assessment of atmospheric correction products
- Responsible for the organization and implementation of an exercise for the comparison of different atmospheric correction models: ACIX (<https://earth.esa.int/web/sppa/meetings-workshops/acix>)

May 2012 - May 2015

Research Fellow

ESA/ESRIN, Sensor Performance, Products and Algorithms Section, Earth Observation Mission Management Division/ Ground Segment and Mission Operations Department/ Directorate of Earth Observation Programmes

- Quality Assessment of Multisensor/Multiresolution Data Synergy Products

February 2010 - December 2011

Research Assistant

AUTH

- Analysis and processing of multispectral images for the project "Contribution of Earth Observation data and Geographical Information Systems to mapping and managing flood events in Greece"

May 2010 - June 2010

Contractor

Municipality of Orfanos, Galypsos - Moustheni, Kavala, GR-64008

- Creation of topographical diagrams for the demarcation of the shoreline and beach at Ofrynio beach (Kavala, Greece)

21 - 22 November 2009

Laboratory Seminar Instructor

Aristotle University of Thessaloniki

- Head of scientific group on "Creating ortho-photomaps of archaeological sites and historical sets by using satellite imagery. Processing of spectral attributes to detect buried structures." in the Laboratory Seminar "Methods of Mapping Cultural Monuments" organized by the Cross-field Postgraduate Program "Preservation and restoration of cultural monuments"

February 2009 - May 2012

Engineering Consultant

Geoapodosi SA, Filippou 17, Kavala, GR-65403

- Board Member and responsible for projects on photogrammetry and remote sensing . Apart from the responsibilities given my position as a member of the company board, the activities included were: photogrammetric processing, ortho-rectification of satellite imagery and creation of maps for 'Early Warning and Fire Management Systems for the prefectures of Thesprotia and Arta "

Business or sector Engineering Consulting– Geoinformatics

November 2008 - February 2009

Instructor

Aristotle University of Thessaloniki

- Instructor according to the Greek law P.D.407/80 in School of Rural and Surveying Engineering. Co-teaching the course: "Environmental Remote Sensing, Digital Image Processing of Remotely Sensed Data"

January 2008 - July 2008

Short-term consultant

Geoapodosi SA, Filippou 17, Kavala, GR-65403

- Estimation of number of rights in the context of a bid for cadastral project with the use of GIS in regions of Macedonia and Thrace

Business or sector Engineering Consulting

November 2007 - February 2008

Instructor

Aristotle University of Thessaloniki

- Instructor according to the Greek law P.D.407/80 in School of Rural and Surveying Engineering Co-teaching the course: "Environmental Remote Sensing, Digital Image Processing of Remotely Sensed Data"

June 2007 - December 2007

Short-term consultant

Gkatziroulis Ioannis, Filippou 17, Kavala, GR-65403

- Update of photogrammetric diagrams for the project " Land Consolidation in Kallirachi of Thassos"

Business or sector Engineering consulting

January 2007 - April 2007

Instructor

Aristotle University of Thessaloniki

- Assistant to the members of School of Rural and Surveying Engineering, AUTH. Assistance to the training of students by conducting tutorial and laboratory exercises

EDUCATION AND TRAINING

March 2006 - June 2011

PhD degree at School of Rural and Surveying Engineering, AUTH, Greece (Scholar of Greek State Scholarships Foundation)

EQF Level 8

School of Rural and Surveying Engineering, Faculty of Engineering, (AUTH)

- Thesis Title: Integrated models for remotely sensed data analysis towards the detection and monitoring of urban land cover changes

October 2004 - November 2005

MSc degree in "Geomatics" focusing on the "Management of Photogrammetry and Remote Sensing in a GIS environment"

EQF Level 7

School of Rural and Surveying Engineering, Faculty of Engineering, (AUTH)

- Thesis Title: Enhancement of the classification of high resolution images in urban and suburban areas

October 1998 - April 2004

Diploma of Rural and Surveying Engineer

EQF Level 6

School of Rural and Surveying Engineering, Faculty of Engineering, (AUTH)

- Thesis Title: Integrated DEM and pan-sharpened SPOT-4 image in urban studies

PERSONAL SKILLS

Mother tongue(s)

Greek

Other language(s)

| | UNDERSTANDING | | SPEAKING | | WRITING |
|--|---------------|---------|--------------------|-------------------|---------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | C1 | C1 | C1 | C1 | C1 |
| Certificate of Proficiency in English, University of Cambridge | | | | | |
| Italian | B2 | B2 | B2 | B2 | B2 |

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|---------|---|----|----|----|----|
| Spanish | Certificato di Conoscenza della Lingua Italiana , CELI 3, Università per Stranieri di Perugia | | | | |
| | B2 | B2 | B2 | B2 | B2 |
| | Diploma Basico de Español | | | | |

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
 Common European Framework of Reference for Languages

Digital competence

| SELF-ASSESSMENT | | | | |
|------------------------|-----------------|------------------|------------------|-----------------|
| Information processing | Communication | Content creation | Safety | Problem solving |
| Proficient user | Proficient user | Proficient user | Independent user | Proficient user |

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

- Very good command of Programming (Python, IDL, Matlab)
- Very good command of Image Processing (SNAP, ENVI, ERDAS Imagine, Definiens Developer, MatLab, etc.)
- Very good command of Geographic Information Systems (QGIS , ArcGIS, Manifold GIS)
- Very good command of feneral word processing, documentation and administration (Microsoft Office, EndNote, Adobe Acrobat Professional, Lotus Notes etc.)
- Good command of design software (AutoCAD 2D and 3D)
- Good command of Project Management software: MS Project

Driving licence Category: B

Selected Publications in: Scientific Journals

- Mitraka, Z., **Doxani**, G., Del Frate, F., Chrysoulakis, N., 2016. "Uncertainty Estimation of Local-Scale Land Surface Temperature Products Over Urban Areas Using Monte Carlo Simulations". IEEE Geoscience and Remote Sensing Letters, January 2016
- Doxani**, G., Mitraka, Z., Gascon, F., Goryl, P., Bojkov, B., 2015. "A Spectral Unmixing Model for the Integration of Multi-Sensor Imagery: A Tool to Generate Consistent Time Series Data". Remote Sensing, 2015, 7 (10): 14000-14018
- Doxani**, G., Karantzalos, K., Tsakiri-Strati, M., 2015. "Object-Based Building Change Detection from a Single Multispectral Image and Pre-Existing Geospatial Information". PE&RS, June 2015, pp.481-489
- Mitraka, Z., Chrysoulakis, N., **Doxani**, G., Berger, M., 2015. Urban Surface Temperature Time Series Estimation at the Local Scale by Spatial-Spectral Unmixing of Satellite Observations, Remote Sensing 7(4):4139-4156
- Doxani**, G., Karantzalos, K., Tsakiri-Strati, M., 2012. "Monitoring urban changes based on scale-space filtering and object-oriented classification". International Journal of Applied Earth Observation and Geoinformation, Volume 15, April 2012, pp. 38-48 [18th between the "Top 25 Hottest Articles" Scindirect, 2012]

Conferences

- Doxani**, G., Mitraka, Z., Gascon, F., Goryl, P., Bojkov, B., 2015. "An Unmixing-based Model for the integration of multi-sensor imagery: a tool for the future synergy of Sentinel-2 and Sentinel-3 data". In: Proceedings of the Sentinel-3 for Science Workshop ESA held from 2-5 June 2015 in Venice, Italy.
- Doxani**, G., Mitraka, Z., Gascon, F., Goryl, P., Bojkov, B., 2013. "Spatial Unmixing Towards Multisensor and Multiresolution Image Fusion". In: Proceedings of the ESA Living Planet Symposium held from 09-13 September 2013 in Edinburgh, United Kingdom.
- Doxani**, G., Papadopoulou, M., Lafazani, P., Pikridas, C., Tsakiri-Strati, M., 2012. "Shallow-water Bathymetry Over Variable Bottom Types using Multispectral Worldview-2 Image". In: Proceedings of 22nd Congress of ISPRS, 25/08-01/09, Melbourne, Australia.
- Doxani**, G., Karantzalos, K., Tsakiri-Strati, M., 2010. "Automatic Change Detection in urban areas under a scale-space, object-oriented classification framework." In: Addink, E.A. and Van Coillie F.M.B. (Eds.), ISPRS International Conference of Geographic Object-Based Image Analysis 2010.
- Doxani**, G., Siachalou, S., Tsakiri-Strati, M., 2009. "An integrated approach to automated building extraction from very high resolution imagery in urban areas", 29th Annual EARSEL Symposium, Chania, June 2009.
- Doxani**, G., Siachalou, S., Tsakiri-Strati, M., 2008. "An object-oriented approach to urban land cover change detection". In: Proceedings of the 21st Congress of ISPRS, 03-11/07, Beijing, China.

Honours and awards

- Award for the best student oral presentation in the international conference of GEOBIA 2010 (GEOGRAPHIC OBJECT-BASED IMAGE ANALYSIS) for the paper "Automatic Change Detection in urban areas under a scale-space, object-oriented classification framework", July 2010, Ghent (Belgium).
- Award Grant from the Research Committee of the Aristotle University of Thessaloniki, for the scientific achievements within the PhD studies. (Duration: 10months)
- I.K.Y. (Greek State Scholarships Foundation), postgraduate scholarship in the field of Photogrammetry, Remote Sensing and Geographic Information Systems for PhD studies (Duration: 42months)

Memberships

- Since 2008: Member of Hellenic Cartographic Society (XEEE)
 Since 2007: Member of Hellenic Society for Photogrammetry & Remote Sensing (EEΦΤ)
 Since 2004: Member of Technical Chamber of Greece (TEE)
 Since 2004: Member of Association of Registered Surveyors in Greece