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Dimitra Tzelidi

I am a Research Assistant in the Foundation for Research and Technology Hellas, Greece. I studied Applied Mathematics in the University of Crete, Greece and I hold a MSc on Environmental Physics and Meteorology from the Physics Department of the University of Athens, Greece. I have dealt with extraction of geophysical parameters using satellite data, time-series analysis and the estimation and statistical analysis of Land Surface Temperature (LST). I have worked on updating of the structure data of Heraklion's urban environment. This period, I work on spectroscopy of satellite imagery and investigating a satellite-based approach that will determine the urban energy budget and the anthropogenic heat flux, parts of URBAN FLUXES project.

Among several research paths, my main scientific interests include the surface urban heat island (SUHI) effect, urban climatology and urban planning.

Detailed Resume

EDUCATION

Master Degree in **Environmental Physics and Meteorology** of the **Physics Department** of the University of Athens. February 2014 – November 2015.
http://en.env.phys.uoa.gr/

Degree in **Applied Mathematics – Department of Applied Mathematics** – Faculty of Sciences and Engineering, University of Crete, Heraklion. September 2007 – November 2013.
http://www.math.uoc.gr/en/

Work Experience

01/04/2016 – today	**Research Assistant** in the Remote Sensing Lab of the **Foundation for Research and Technology Hellas** (http://www.rslab.gr)
01/03/2013 – 01/06/2013	**Work Placement** on the Remote Sensing Lab of the Regional Analysis Division – Foundation for Research and Technology Hellas (http://www.rslab.gr)

Publications

Tzelidi, D., Benas, N. and Chrysoulakis, N., 2014. Analysis of the Land Surface Temperature changes around the Mediterranean during the period 2000-2012. In: Kanakidou, M.,Mihalopoulos, N. and Nastos, P. (Eds): e-book of Contributions of the 12th International Conference of Meteorology, Climatology and Physics of the Atmosphere (CEMECAP 2014), University of Crete, Hellenic Meteorological Society and Mariolopoulos - Kanaginis Foundation for Environmental Sciences in Heraklion on May 28 .

Cartalis C., Tzelidi D., Polydoros A., Mavrakou T., Chrysoulakis N., A Comparative examination of the Land Surface Temperature and Urban Planning and Development: An application for cities in the Mediterranean region. The study presented orally at the 4th International Conference on Countermeasures to Urban Heat Island, which took place in the National University of Singapore, May 30 - June 1, 2016.

Tzelidi, D., Stagakis, S., Mitraka, Z., Lantzanakis, G., Panagiotakis, E. and Chrysoulakis, N., 2017. Spectral Unmixing of Sentinel-2 observations based on urban material endmembers from WorldView II imagery. In Proc. of 10th EARSeL (European Association of Remote Sensing Laboratories) SIG Imaging Spectroscopy Workshop, held in Zurich, Switzerland, April 19 - 21.

Tzelidi, D., Lantzanakis, G., Mitraka, Z. and Chrysoulakis, N., 2017. Comparison of Sentinel-2 atmospheric correction methods for a Mediterranean city. Journal of Applied Remote Sensing. (Submitted)

Training Courses

Earth Observation Summer School 2016: 1 August – 12 August 2016, ESA/ESRIN, Frascati, Italy

ENVI, basic training: 01 – 4 July 2014, Inforest Research C.O., Athens, Greece

Seminars

- 'Performance Analysis of an Earth Science Application', 14 March 2014
- Workshop: 'Small scale thermal solar district units for Mediterranean communities-STS MED Mediterranean European Support Program for Technologies of Concentrated Solar Energy ', 27 March 2014
- Workshop: 'Innovative Structural Materials with High Energy Efficiency', 4 February 2015

Master Thesis

Title: **Study of Land Surface Temperature using time-series of MODIS TERRA/AQUA satellite data in selected Mediterranean land areas.** Grade: 10.0
Supervisor: Constantinos Cartalis (ckartali@phys.uoa.gr)

BSc Thesis

Title: **Analysis of the Land Surface Temperature changes around the Mediterranean during the period 2000-2012.** Grade: 10.0
Supervisor: Nektarios Chrysoulakis (zedd2@iacm.forth.gr)

Skills

Languages: Greek (native), English (B2), French

Computing:

- Programming: Matlab, C, C++
- Computing: Microsoft Office Software (ECDL)

Specialized Software:

- Matlab
- ERDAS Imagine
- ENVI
- ENVI classic
- QGIS

Presentation Skills:

- Multiple presentations throughout BSc/MSc studies and conferences.

References

Nektarios Chrysoulakis
Research Director, Foundation for Research and Technology Hellas, Greece
zedd2@iacm.forth.gr

Constantinos Cartalis
Associate Professor, Division of Environmental Physics, University of Athens, Greece
ckartali@phys.uoa.gr

Nikos Benas
Postdoctoral Researcher, Royal Netherlands Meteorological Institute, De Bilt, Netherlands
benas@knmi.nl