

PERSONAL INFORMATION

Natalia Verde (+30) 6947636470 nverde@topo.auth.gr

WORK EXPERIENCE

03/2018–today

Remote Sensing Trainee

Gisat s.r.o., Prague (Czech Republic)

Development of validation methods and statistics, in Google Earth Engine, Python and R, for the use of remote sensing time-series in agriculture and grasslands practices monitoring.

08/2015

Surveying Engineer

Mihaniki Meletitiki Consultant Engineers, Thessaloniki (Greece)

Topographic plots of streams, construction sites and topographic plots for mobile antennas licensing.

06/2015–07/2015

Surveying Engineer

Geoanalysis SA, Thessaloniki (Greece)

Ownership declaration processing (Backoffice and QGIS) for the Cadastre Study of Kozani Prefecture.

10/2012–01/2013

Student Internship

Region of Central Macedonia, Land Policy Directorate, Department of Surveying, Thessaloniki (Greece)

- *Triangulation station registration in database.*
- *Provision of surveying information to citizens and engineers.*

08/2012, 08/2013, 08/2014

Volunteer

Educational & Cultural Association of Stephanion Corinthias, Stephanion, Corinth (Greece)

- *3D illustrations of cultural interest buildings.*
- *Setting up of thematic screenings.*

EDUCATION AND TRAINING

2018–today

PhD Candidate

Engineering School, Aristotle University of Thessaloniki (AUTH) (Greece)

Laboratory of Photogrammetry and Remote Sensing, Department of Rural and Surveying Engineering

Scientific Advisor: Professor Petros Patias

2015–2017

Master in Geoinformatics

Engineering School, Aristotle University of Thessaloniki (AUTH) (Greece)

*Specialization in Management of photogrammetric production and remote sensing with GIS.**ECTS: 90, Grade: 9.13/10**Thesis title: "Impact of radiometric resolution on the accuracy of satellite image classification".**Supervisor: Professor M. Tsakiri-Strati.*

2009–2015 **Diploma of Rural and Surveying Engineering**
 Engineering School, Aristotle University of Thessaloniki (AUTH) (Greece)
Specialization in Remote Sensing, GIS and Photogrammetry.
 ECTS: 311, Grade: 7.68/10

Diploma Thesis title: "Software development for automatic detection and estimation of the number of cultivated olive trees using high resolution satellite imagery". Supervisor: Professor M. Tsakiri-Strati.

2009 **High School Certificate**
 2nd General Lyceum, Corinth (Greece)
 Grade: 18.5/20

PERSONAL SKILLS

Mother tongue(s) Greek

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C1
Cambridge First Certificate in English B2 (Grade A)					
German	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: 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	Basic user	Independent user	Independent user

Digital competences - Self-assessment grid

Programming Languages

R, MatLab, JavaScript (for Google Earth Engine), Python, Visual Basic, C++

Software

- AutoCAD
- ESRI ArcGIS
- ERDAS Imagine
- QGIS
- Leica Photogrammetry Suite
- Agisoft Photoscan
- ODOS 8
- Anadelta Tessera
- SketchUp
- Monteverdi

Driving licence B

ADDITIONAL INFORMATION

Publications

Verde, N., Mallinis, G., Tsakiri-Strati, M., Georgiadis, C., & Patias, P. (2018). *Assessment of Radiometric Resolution Impact on Remote Sensing Data Classification Accuracy. Remote Sensing, 10(8), 1267.* <https://doi.org/10.3390/rs1008126>

Verde, N., & Tsakiri-Strati, M., Siachalou S., Tsioukas V. (2017). "Software development for automatic detection and estimation of the number of cultivated olive trees using high resolution satellite imagery". In O. Georgoula (Ed.), "Honorary Volume In Memory Of Professor Ioannis Paraschakis: Living with GIS" (pp. 337-355). Thessaloniki, Greece, EKDOSEIS ZITI Publications.

Verde, N., & Tsakiri-Strati, M. (2014). "Change Detection and Fire Risk Assessment Model using Landsat Imagery for the Forest of Gerania Mountains". *South-Eastern European Journal of Earth Observation and Geomatics, 3, 75-82.*

Seminars

Remote Sensing and Photogrammetry Solutions, Hexagon Geospatial, Thessaloniki, Greece, 15-19|05|2017

"Copernicus Data Exploitation, Hands On"

- Imagine UAV
- Sentinel-2 Analysis and Processing with Erdas Imagine
- Radar Suite
- Delta Cue

Workshops

8th Advanced Training Course on Land Remote Sensing, Leicester, ESA, 10-14|09|2018

Indicative topics:

- Theoretical fundamentals and advanced concepts of spaceborne optical, thermal and microwave remote sensing.
- EO land applications: land use and land cover; change detection and multitemporal analysis; vegetation status and its disturbance; land surface temperature; terrain motion and critical infrastructure monitoring; forest biophysical retrievals; flood and water bodies monitoring; agricultural monitoring; fire detection; urban mapping; monitoring of the hydrological cycle, etc.
- Practicals using Sentinel-1, -2 and -3 data and ESA toolboxes (e.g. SNAP) and other tools.

Drone School & Workshop , Thessaloniki, Greece, AIIA Lab, AUTH, 29-31|08|2018

"Deep Learning and Computer vision for drone imaging and cinematography"

SPLIT Remote Sensing Summer School, G-ECO Research Inc., Thessaloniki, Greece, 18-22|05|2015

"Environmental Security: Remote Sensing of Natural Resources"

Indicative topics:

- LiDAR - Data processing with LAStools.
- Portable spectrophotometers – in situ measurements with SVC instrument and data analysis.
- Hyperspectral data – Indices and processing methods with ENVI software.
- Unmanned Aircraft Vehicles (UAVs) - Using the eBee in surveying, GIS and remote sensing.

On line Courses

- Ecosystem Services: a Method for Sustainable Development, University of Geneva (2018)

Conferences

- **WorldCover 2017 Conference, ESA, GEO, FAO and EU, ESRIN (Frascati – Italy), 2017**
- **1st Conference of Geographic Information Systems and Spatial Analysis in Agriculture and the Environment, Agricultural University of Athens GIS Research Unit, Athens, Greece, 2015**
- **4th Surveyors National Conference, Surveying Engineer Hellenic Association, Thessaloniki, Greece, 2014**
- **12th National Conference of Cartography, Hellenic Cartographic Society, Kozani, Greece, 2012**