VASILEIOS ALEXANDRIDIS

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PERSONAL PROFILE

Motivated, passionate and team-oriented Geoinformatics Engineer with strong motivational and leadership skills. Capable of conducting critical analysis of business requirements, and maintaining solutions for organizational efficiency, productivity, and profitability. Professional experience in software engineering with a focus on Python programming language in GIS applications. Recognized as a creative team-player with a proven track record converting business requirements into cost-effective, on-time, and maintainable solutions. Eager to learn new skills or improve my current ones to better apply my knowledge in practice. Equipped with excellent work ethic, a strong sense of responsibility, and a commendable track record of absolute dependability.

FIELDS OF INTEREST

Geographical Information Systems	Environmental Sciences	Integrated GIS Solutions
Spatial Analysis	Remote Sensing	Project Management
Machine Learning (ML)	LiDAR	GIS Consultancy
Geo-Databases	Google Earth Engine (GEE)	Data Engineering

WORK EXPERIENCE

Omikron Environmental Consultants S.A., Thessaloniki   September 2020 - Now
Geoinformatics Specialist

· Research & Development on general geospatial topics funded by EU projects
· Processing of big geo-spatial data for monitoring natural hazards and climate change
· Use of optical & radar satellite data for environmental applications
· Implementation of ML algorithms for remote sensing purposes

Deltares, Delft   October 2019 - July 2020
Graduate Intern @ Deltares Software Centre (DSC) / Software, Data management and Innovation (SDI) department

<u>M.Sc. Thesis:</u> Automatic Detection of waterbeds in muddy shallow water-bodies in the Netherlands using green LiDAR data

Geoanalysis S.A.,Department of Cadaster, Thessaloniki   September 2017 - June 2018
GIS Analyst

· Key member of the GIS department, responsible for the quality and validation of the Cadaster projects
· Digitization, georeference and validation of land expropriation boundaries for the Greek Cadaster
· Creation and correction of GIS data of land properties in prefectures
· Updating of descriptive data of land owners

Archaeological Excavation in Toumpa, Thessaloniki   June 2016 - July 2016
Field Surveyor

· Topographical survey of the archaeological site
· 3D archaeological pits models with photogrammetric techniques

· Point cloud production via Laser scanning, to create top view and section plans of the archaeological pits

EDUCATION

Surveying Engineering, AUTh, Greece   December 2022 - present
PhD candidate (PhD(c))
Remote Sensing lab, School of Rural Surveying Engineering

Geomatics for the Build Environment, TU Delft, Netherlands   August 2018 - August 2020
Master of Science (MSc)
3D geoinformation group, Department of Architecture

Surveying Engineer, AUTh, Greece   September 2011 - November 2016
Integrated Master of Engineering
School of Rural and Surveying Engineering
Specialization: Cadaster, Photogrammetry and Cartography   Overall Percentage: 8.03/10

Erasmus, Jade Hochschule, Oldenburg, Germany   September 2014 - March 2015
Student Exchange Program
Department of Architecture, Department of Geoinformatics

RESEARCH EXPERIENCE

Responsibility for Cultural Heritage through Geomatics   June 2017
Research Assistant in the interdisciplinary research program between the Technical University of Karlsruhe, University of Valencia and Aristotle University of Thessaloniki. The project aims to capture the archaeological sites (Sanctuary of Eukleia, Ancient Theatre of Vergina) with the use of UAVs, Laser Scanner and Mobile Mapping System.

Responsibility for Cultural Heritage through Geomatics   May 2016
Research Assistant in this project that aims to capture silos and the courtyard area (Burjassot, Valencia) with the use of UAVs, Laser Scanner and thermal photogrammetry.

PUBLICATIONS

Stefanidis, S., **Alexandridis, V.**, Chatzichristaki, C., Stefanidis, P. (2021). Assessing soil loss by water erosion in a typical Mediterranean ecosystem of northern Greece under current and future rainfall erosivity. Water, 13(15), 2002.

Stefanidis, S., **Alexandridis, V.** (2021). Precipitation and Potential Evapotranspiration Temporal Variability and Their Relationship in Two Forest Ecosystems in Greece. Hydrology, 8(4), 160.

Stefanidis, S., **Alexandridis, V.**, Mallinis, G. (2022). A cloud-based mapping approach for assessing spatiotemporal changes in erosion dynamics due to biotic and abiotic disturbances in a Mediterranean peri-urban forest. Catena, 218(3), 106564.

Stefanidis, S., **Alexandridis, V.**, Kaushik, G. (2022). Assessment of Water-Induced Soil Erosion as a Threat to Natura 2000 Protected Areas in Crete Island, Greece. Sustainability, 14(5), 2738.

Stefanidis, S., **Alexandridis, V.**, Spalevic, V, Mincato, R. (2022). Wildfire Effects on Soil Erosion Dynamics: The Case of 2021 Megafires in Greece. The Journal Agriculture and Forestry, 68(2), 49-63.

Stefanidis, S., **Alexandridis, V.**, Theodoridou T. (2022). Flood Exposure of Residential Areas and Infrastructure in Greece. Hydrology, 9(8), 145

LANGUAGES

Greek	Mother Tongue
English	Professional working proficiency
	IELTS score: 7/9, January 2018
Dutch	Elementary II (A2 level) - Intermediate I (B1 level)
German	Zertifikat Deutsch Zeugnis B1 – Goethe Institute

COMPUTER SKILLS

Geo-spatial Management	ArcGIS, QGIS, PostGIS, PostgreSQL, FME, Erdas Imagine, Autocad, Map 3D, AutoLISP
Computer Languages	Python, Julia, C++ ,HTML, CSS, PostgreSQL, MySQL
3D modelling-Point Clouds	Agisoft Photoscan, Faro Scene 3D, Pointools
Software	MS Office, Latex, Adobe (Photoshop, Illustrator),SPSS, Matlab