Eleni Saka

Date of birth: 07/01/2002 | **Nationality:** Greek | **Gender:** Female | **Phone number:** (+30) 6945208579 (Mobile) |

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ABOUT ME

I am an undergraduate student at the School of Rural and Surveying Engineering – Geoinformatics at the National Technical University of Athens, currently completing my master thesis focused on applying Positive Unlabeled learning techniques to the Mesogeos dataset for wildfire danger forecasting. My academic background combines geoinformatics, machine learning, and data science, with a strong interest in innovative predictive modeling and data-driven solutions.

LANGUAGE SKILLS

Mother tongue(s): **GREEK**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2

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

DIGITAL SKILLS

Programming: Python, Matlab and C++ | Excellent use of GIS | Microsoft Office

WORK EXPERIENCE

11/07/2024 – 10/09/2024 Athens, Greece
INTERNSHIP NATIONAL OBSERVATORY OF ATHENS

- Processing Sentinel-2 satellite images, manual mapping of burned areas using GIS, extraction of statistics and information for the affected areas, and creation of burned area maps.
- Retrieval and analysis of data from fire department reports, use of active fire data (MODIS, VIIRS), and burned area data from EFFIS. Performance evaluation of the FireHub service using SEVIRI satellite images and photointerpretation.
- Change detection and data validation using photointerpretation for land use in areas of interest in Zambia for EMSN196 Zambia
- Participation in EMSN200 Falakro, working on fire delineation, fire grading, map production, geodatabase creation, layer uploads to an online service, and development of Web Map, Scene, and Dashboard.
- Participation in EMSN197 Azores, uploading layers to ArcGIS Online, and creating Web Map, Scene, and Dashboard.
- Automation of the process for retrieving suitable cloud-free images and digitizing burned areas using Python.
- Creation of a machine learning dataset.

Department Beyond Centre of EO Research & Satellite Remote Sensing

23/09/2024 – 30/11/2024 Athens, Greece
PARTICIPATION IN THE CEMS RESEARCH PROGRAM NATIONAL OBSERVATORY OF ATHENS

Execution of the project "Risk assessment of forest fires using machine learning, detailed mapping of burned areas, and statistical analysis of historical fires" as part of the implementation of the research program titled "CEMS"

Department Beyond Centre of EO Research & Satellite Remote Sensing

CONFERENCES AND SEMINARS

02/11/2024 – 04/11/2024 Greece
16th National Cartography Conference

"Cartography in the modern multidisciplinary world"

HONOURS AND AWARDS

Diomedes Komnenos Award – National Technical University of Athens

Year: 2020

Nikolaos I. Kritikos Scholarship – National Technical University of Athens

Academic Year 2020-2021

Christos Papakyriakopoulos Award – National Technical University of Athens

Academic Year 2020-2021

Dimitrios Thomaidis Award – National Technical University of Athens

Academic Year 2020-2021

Dimitrios Thomaidis Award – National Technical University of Athens

Academic Year 2021-2022

Dimitrios Thomaidis Award – National Technical University of Athens

Academic Year 2022-2023