Alexandros P. Liaskos

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Summary

Geosciences Researcher, Full Stack Developer, and Data Scientist holding a BSc in Geology and currently pursuing an MSc in GIS. Published author in high-impact journals (Environmental Modelling & Software, Proceedings of the European Academy of Sciences and Arts) and active member of the research team led by Prof. Niki Evelpidou, with extensive experience in geohazards research, satellite imagery analysis, geoinformatics, and web application development. Skilled in Python and JavaScript/TypeScript, with a strong foundation in data science and GIS technologies. Professional experience in international research projects, like EO-PERSIST (HORIZON EUROPE), TRACE (ERASMUS+), and Facing Fire (ERASMUS+ Service Learning).

Education

National and Kapodistrian University of Athens   *Athens, Greece*
MSc in Geographic Information Systems   *Sept 2025 – present*

National and Kapodistrian University of Athens   *Athens, Greece*
BSc in Geology and Geo-environment   *Jan 2018 – Jan 2024*
- GPA: 7.4/10
- 220 ECTS
- Degree Certificate

Professional Experience

Digital Communications Manager   *Athens, Greece*
Hellenic Geographical Society   *June 2024 – present*
- Managing digital communications for the organizing committee of the 13th International Conference of the Geological Society of Greece (GSG), to be held in Athens, Greece, in 2026
- Developed and maintain the official website of the Hellenic Geographical Society (HGS)

Researcher   *Athens, Greece*
National and Kapodistrian University of Athens   *Jan 2021 – present*
- Developed the website for the 5th International Workshop of the IAG DENUCHANGE Working Group
- Developed the Beach Rocks WebGIS, an interactive map for exploring Beach Rocks; as a deliverable during the participation in the TRACE ERASMUS+ project
- Developed the Tombolo WebGIS, an interactive map for exploring Tombolos; as a deliverable during the participation in the TRACE ERASMUS+ project
- Developed the Open Week booking system for the dpt. of Geology and Geonvironment of the NKUA
- Developed Historic Floods WebGIS, an interactive map for exploring historic flood events
- Developed OpenScholar website for Prof. Niki Evelpidou's academic profile and research portfolio
- Poster presentation of the CVIc application in the IAG Regional Conference on Geomorphology in Timișoara, Romania. PDF
- Implemented educational activities at the Geological Museum of Apeiranthos, Naxos, for World Environment Day 2025 (June 4-5). Facilitated museum presentations and interactive workshops for school groups
- Developed a Python toolkit (SatShor) for Satellite-derived shorelines from S2L2AB08 images using scikit-image's minimum thresholding and marching squares subpixel refinement and a Terminal User Interface (TUI) for acquiring the product-of-interest through CDSE's OData API
- Liaskos, A. (2025). Computational framework in coastal vulnerability assessment (CompCVA): Coastal Vulnerability Index for island coastlines in ArcGIS Pro. Pergamos Digital Library

- Tsokos, A., Tsoukala, V., Spyrou, E., Liaskos A., Evelpidou N. (2025) Development of a ModelBuilder for Automatizing the Calculation of Coastal Vulnerability Index: Application in the Northern Corinthian Gulf. Journal of Marine Science and Application
- Developed a Least Cost Path (LCP) ArcPy algorithm, contributing to the publication
- Participated in the Facing Fire ERASMUS+ Service Learning in Athens, Greece. Sep 19-25, 2022. Report
- Evelpidou, N., Tzouxanioti, M., & Liaskos, A. (2022). Costal erosion: the future of sandy beaches. Proceedings of the European Academy of Sciences and Arts, 1(1)

Guest Researcher
Lund University, Dept. of Geography

Lund, Sweden
Jan 2025 – May 2025

- Developed CVIc, a React/TypeScript web platform to automate Coastal Vulnerability Index calculations
- Published research in Environmental Modelling & Software (Impact Factor 4.8)
- Contributed to EO-PERSIST project (Horizon Europe)

Facing Fire ERASMUS+ Internship
University of Santiago de Compostela

Lugo, Spain
June 2023 – July 2023

- Integrated into PCF working group studying wildfire risk management strategies
- Developed educational materials for "Education to live with fire" summer course
- Engaged with Consellería de Medio Rural and Forest Stewardship Council Spain
- Gained field experience in prescribed burning areas and fire control operations

Waiter
The Old Tavern of Psarras

Athens, Greece
Jan 2018 – present

- The Old Tavern of Psarras was awarded by the Athens Chamber of Tradesmen (EEA) during its 100-year anniversary celebration as the oldest tavern in the world

Publications

CVIc: A web platform for automated coastal vulnerability index-based assessment
Liaskos, A., Petropoulos, G. P., Evelpidou, N., Detsikas, S. E.
10.1016/j.envsoft.2025.106705 (Environmental Modelling & Software)

Mar 2025

Development of a ModelBuilder for Automatizing the Calculation of Coastal Vulnerability Index Application in the Northern Corinthian Gulf
Tsokos, A., Tsoukala, V., Spyrou, E., *Liaskos, A.*, Evelpidou, N.
10.1007/s11804-025-00669-6 (Journal of Marine Science and Application)

Jan 2025

Computational framework in coastal vulnerability assessment (CompCVA): Coastal Vulnerability Index for island coastlines in ArcGIS Pro
Liaskos, A., Evelpidou, N.
pergamos.lib.uoa.gr/en/item/uoadl:3475805 (Pergamos Digital Library, National and Kapodistrian University of Athens)

Jan 2025

Coastal erosion: The future of sandy beaches
Evelpidou, N., Tzouxanioti, M., *Liaskos, A.*
10.4081/peasa.12 (Proceedings of the European Academy of Sciences and Arts)

Jan 2022

Conferences

IAG Regional Conference on Geomorphology

Timișoara, Romania
Sept 2025

- Poster presentation of CVIc application
- International Association of Geomorphologists (IAG)

16th International Congress of the Geological Society of Greece

Patras, Greece
Oct 2022

- Participation Certificate

15th International Congress of the Geological Society of Greece

Athens, Greece
May 2019

- Participation Certificate

Software Projects

Chilling-Vibes

Python/PyAutoGUI automation tool to bridge RooCode with Google AI Studio.

- GitHub

Obsidian Web Scraper

NPM/MCP tools to scrape web content via Readability & Turndown.

- GitHub
- NPM

Awesome Wallpapers

Vue/TailwindCSS web app for browsing/searching/downloading wallpapers.

- GitHub
- Live

PyTutor

Python/Rich TUI to teach Python fundamentals.

- GitHub

lazyls

Go/Gocui lazy-loaded terminal file browser.

- GitHub

Carch

IDL for defining ECS architectures in C++.

- GitHub

Skills

Web Development: JavaScript/TypeScript, React, Next.js, Vue.js, Node.js, Nest.js, Tailwind CSS, ShadCN

Data Science & GIS: Python, NumPy, Pandas, GDAL, Shapely, Rasterio, Scikit-image, Leaflet, Turf.js, GEE, SNAP, ArcGIS Pro, ArcPy, QGIS

Databases: SQLite, PostgreSQL, IndexedDB, Supabase

Certificates

Data Science: R Basics

HarvardX on edX

- Certificate

Greatest Unsolved Mysteries of the Universe

Australian National University (ANU) on edX

- Certificate

Exploring Exoplanets

Australian National University (ANU) on edX

- Certificate

Climate Change: The Science and Global Impact

University of Michigan on edX

- Certificate

Differential Equations 1

Mathesis - Crete University Press

- Certificate

Man Facing Nature
Mathesis - Crete University Press
- Certificate

Man Facing Divine
Mathesis - Crete University Press
- Certificate

Erasmus Projects

TRACE ERASMUS+ Project
Bucharest, Romania
Oct 2025 – present
- Working under contract as active participant in transnational cooperation project
- Project Website

Facing Fire ERASMUS+ Service Learning
Athens, Greece
Sept 2022
- Participated in international service learning program on wildfire management
- Project Report

Latin America in the Global Networks
Madrid, Spain
July 2022
- CIVIS Blended Intensive Programme at Universidad Autónoma de Madrid (3 ECTS)
- Certificate

Culture On My Camera ERASMUS+ Youth Exchange
Denizli, Turkey
2021-03 to 2022-10
- Youth exchange with 35 participants from Greece, Lithuania, Netherlands, Portugal, Romania, and Turkey
- Certificate

Additional Experience

Military Service
Kalymnos, Greece
Hellenic Army
Dec 2023 – Aug 2024

Languages

Greek: Native

English: Fluent (IELTS 8.0) - Certificate

Spanish: Proficient

Volunteer

Volunteer Firefighter
Athens, Greece
12th Fire Station of Athens
Feb 2023 – present

Senior Care Volunteer
Athens, Greece
Mission Anthropos
Oct 2022 – present
- Improving quality of life for senior citizens through community engagement