

Alexandros P. Liaskos

Geologist • Remote Sensing & GIS • Full Stack Developer

📍 Athens, Greece ✉ alexliaskos@geol.uoa.gr 🌐 AlexandrosLiaskos 📄 alexandros-liaskos-a92a46254

Summary

Geologist and researcher at the Department of Geology and Geo-environment of the National and Kapodistrian University of Athens. Specializing in geoinformatics and coastal geomorphology, with active participation in European research programs. Experienced in developing scientific and general-purpose digital applications and algorithms.

Education

National and Kapodistrian University of Athens

MSc in Geographic Information Systems

Athens, Greece

Sept 2025 – present

National and Kapodistrian University of Athens

BSc in Geology and Geo-environment

Athens, Greece

Jan 2018 – Jan 2024

- GPA: 7.4/10
- 220 ECTS
- Degree Certificate

Professional Experience

Researcher

Athens, Greece

National and Kapodistrian University of Athens

Jan 2021 – present

- Served as assistant tutor for the laboratory of the undergraduate course [Geographic Information Systems and Remote Sensing Principles \(Y2204\)](#) at the Dept. of Geology and Geoenvironment, NKUA
- Served as assistant tutor for the MSc programme [Documentation and Recording of Monuments and Archaeological Sites \(ATM\)](#) at the Hellenic Open University (EAP)
- Developed and maintain the official website of the [Hellenic Geographical Society \(HGS\)](#)
- Developed and maintain the website 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 the website for the [13th International Workshop of the IAG DENUCHANGE Working Group](#)
- Developed the [Coastal Storm Surge GR 2026 WebGIS](#), an interactive geographic platform visualizing the Greek coastal areas affected by the extreme weather events of February 2026 for which the competent authorities declared a state of emergency; developed for Prof. Niki Evelpidou's research group
- Developed the [Geomorphological Map of Naxos WebGIS](#), an interactive web map of the geomorphological landforms and lithology of Naxos island, based on the 1:50,000 geomorphological map produced by N.K.U.A. and EAGME
- 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 Automating 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). [Coastal 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

Mar 2025

[Liaskos, A.](#), Petropoulos, G. P., Evelpidou, N., Detsikas, S. E.

[10.1016/j.envsoft.2025.106705](https://doi.org/10.1016/j.envsoft.2025.106705) (Environmental Modelling & Software)

Development of a ModelBuilder for Automating the Calculation of Coastal Vulnerability Index Application in the Northern Corinthian Gulf

Jan 2025

Tsokos, A., Tsoukala, V., Spyrou, E., [Liaskos, A.](#), Evelpidou, N.

[10.1007/s11804-025-00669-6](https://doi.org/10.1007/s11804-025-00669-6) (Journal of Marine Science and Application)

Computational framework in coastal vulnerability assessment (CompCVA): Coastal Vulnerability Index for island coastlines in ArcGIS Pro

Jan 2025

[Liaskos, A.](#), Evelpidou, N.

pergamos.lib.uoa.gr/en/item/uoadl:3475805 (Pergamos Digital Library, National and Kapodistrian University of Athens)

Coastal erosion: The future of sandy beaches

Jan 2022

Evelpidou, N., Tzouxanioti, M., [Liaskos, A.](#)

[10.4081/peasa.12](https://doi.org/10.4081/peasa.12) (Proceedings of the European Academy of Sciences and Arts)

Conferences

ArcGIS Users Meeting Greece-Cyprus 2025

Athens, Greece

- Presented "Automatic Isolation of Exterior Polygon Rings: Application to Island Coastlines"

Oct 2025

- Held at the Crowne Plaza Hotel (October 22–23), organized by [Marathon Data Systems](#)

TRACE ERASMUS+ Online Workshop Series

Online

- Presented "GIS & Drones: Mapping Shifts from the Sky"
- Delivered as part of the [TRACE ERASMUS+](#) project workshop series

2025

IAG Regional Conference on Geomorphology

Timișoara, Romania

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

Sept 2025

16th International Congress of the Geological Society of Greece

Patras, Greece

- [Participation Certificate](#)

Oct 2022

15th International Congress of the Geological Society of Greece

Athens, Greece

- [Participation Certificate](#)

May 2019

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

- Working under contract as active participant in transnational cooperation project
- [Project Website](#)

*Bucharest, Romania
Oct 2025 – present*

Facing Fire ERASMUS+ Service Learning

- Participated in international service learning program on wildfire management
- [Project Report](#)

*Athens, Greece
Sept 2022*

Latin America in the Global Networks

- CIVIS Blended Intensive Programme at Universidad Autónoma de Madrid (3 ECTS)
- [Certificate](#)

*Madrid, Spain
July 2022*

Culture On My Camera ERASMUS+ Youth Exchange

- Youth exchange with 35 participants from Greece, Lithuania, Netherlands, Portugal, Romania, and Turkey
- [Certificate](#)

*Denizli, Turkey
2021-03 to 2022-10*

Additional Experience

Military Service

Hellenic Army

*Kalymnos, Greece
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