

Lynette Dias

GEOSPATIAL ANALYST | GEOLOGIST

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Summary

I am proficient in the use of geographical information systems as well as remote sensing using satellite and drone imagery. I have worked on several group projects which enabled me to work as part of multidisciplinary and diverse cultural teams and strengthen my presentation and communication skills.

You can explore some of my projects on my website www.gisgeologist.com

Skills

ArcGIS Pro | QGIS | GPS data collection and processing | ENVI 3D point cloud generation | Google Earth Engine | Microsoft Office | Photogrammetry | drone flight planning | LaTeX

Python | Javascript | IDL | Matlab

English (native) | Dutch (A2) | Hindi | French

Teamwork | Leadership | Communication | Responsibility

Education

UNIVERSITY OF TWENTE *2020-'22*
Master of Science- Geoinformation Science and Earth Observation (M-GEO-WO)

IIT BHUBANESHWAR
Master of Science- Geology (MSc)(WO)

ST. XAVIER'S COLLEGE MUMBAI
Bachelor of Science (BSc)(HBO)

Experience

Project Engineer-Hoogbouw at Volker Wessels Telecom Zwolle *March 2023-2025*

- Highrise building scans in project areas, data synchronization between Geofiber and Fiberworkz, planning and executing highrise scans, managing communications between two departments, processing highrise documents
- Skills- Geofiber, QGIS

Master's Projects

Master's Thesis

- Title: Investigating the Nature of Brine Pockets on dwarf planet Ceres using Hyperspectral mapping
- Skills: Hyperspectral remote sensing, NASA satellite data cube download and preprocessing in Python, IDL, **HyperspectralPython**, mineral spectra analyses

Global Challenges- Energy Transition in the European Union

- Interdisciplinary group project-Impact of the Energy Sector on Greenhouse gas emissions in the EU
- Skills- Data extraction, data analysis, ESRI Storymaps, ArcGIS, policy-making, statistical data visualization, scientific reporting, geospatial data collection

Earth Observation with Unmanned Aerial Vehicles (UAVs)

- Image Based Modelling (IBM) and applications of UAVs, photogrammetry
- Skills-3D point cloud generation, data quality assessment; UAV: flight planning, data acquisition, structure from motion, bundle block adjustment, Pix4D, Matlab

Python Project

- Code to create ENVI header files for hyperspectral datacubes taken by NASA's DAWN spacecraft
- Skills- Python, Jupyter Notebooks, spiceypy

Data Integration Project

- Solid Waste Disposal Site Selection using Boolean Logic
- Skills- QGIS, binary selection criterion mapping, vector analysis-buffer, proximity analysis

Hobbies

I love to travel and I have visited 16 countries so far. I'm a big fan of trying out local cuisines