MARIA LUISA KAWASAKI

Geospatial Data Engineer

Netherlands

malu.kawasaki@gmail.com

malukawasaki.github.io/cv/

linkedin.com/in/mlt-kawasaki/

github.com/malukawasaki
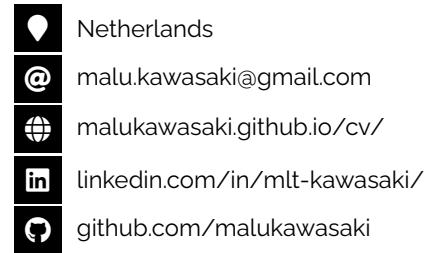
WHO AM I?

Geospatial data engineer and urbanist with expertise in data integration and standardization. I build ETL pipelines that harmonize heterogeneous geospatial datasets into interoperable, standard-compliant formats (OGC, GML, GeoPackage, INSPIRE). My work on integrating subsurface data into land administration for climate adaptation is cited in ISO 19152-5:2025, contributing to international practices.

ETL: FME, Python, SQL | **GIS:** ArcGIS Pro, QGIS | **Spatial DB:** PostGIS, Oracle | **Geodata formats:** GML, GPKG, OGC API, WFS, WMS | **Version control:** Git

EXPERIENCE

2023 – Current

Geospatial Data Engineer — **Netherlands Organisation for Applied Scientific Research (TNO)**

Geospatial data engineering tasks at the Dutch national geological survey (TNO GDN). Focus on integrating subsurface data in spatial planning, including the design and maintenance of ETL pipelines and the development and use of (geo)data standards.

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FME / ArcGIS Pro / Python / SQL / Spatial DB / Geodata formats
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2023

Geodata Intern (JIP 2023) — **SES Satellites**

Researched commercial applications of satellite-based quantum key distribution (QKD) and mapped existing optical satellite stations across Europe.

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Python / Quantum GIS / LaTeX
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EDUCATION

2022 – 2024

Master of Science Geo Informatics — **Delft University of Technology**

GPA: 8/10 (Excellent)

2021 – 2024

Master of Science Urbanism — **Delft University of Technology**

GPA: 8/10 (Excellent)

2017 – 2021

Bachelor of Science Architecture — **Politecnico di Milano**

Graduated with honors

KEY PUBLICATIONS

Aug 2025

Integrating subsurface data into urban planning for climate adaptation using land administration domain model part 5 — **Taylor & Francis**

doi.org/10.1080/00396265.2025.2539606

Sep 2024

Bringing Subsurface Information Models and Climate Adaptation Design into LADM Part 5 Spatial Plan Information — **12th International FIG Workshop**

oicrf.org/-/bringing-subsurface-information-models-and-climate-adaptation-design-into-ladm-part-5-spatial-plan-information

AWARDS

Sep 2024

Best Paper Award 12th International FIG LADM Workshop — **International Federation of Surveyors (FIG)**

Recognized for outstanding contribution to integrating subsurface data and land administration standards in climate-adaptive spatial planning.

Oct 2020

Future Cities Challenge Individual Winner — **UN-Habitat and Fondation Botnar**

Awarded for conceptualizing Neibz, a software tool for urban data surveying in Brazilian favelas.