



KAROL PIETRUSZKA

GEOSPATIAL & FORESTRY SPECIALIST

CONTACT

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- <https://karolpiet.github.io/portfolio/>

SKILLS

- ArcMap, ArcGIS Pro, QGIS
- LiDAR data processing
- Spatial analysis & map creation
- GDAL / Rasterio / Shapely
- Google Earth / Earth Engine
- Python
- Jupyter Notebook
- SQL

LANGUAGES

- Polish (Native)
- English (Intermediate)
- German (Basic)



PROFILE

Experienced GIS specialist and forest management professional with 10+ years in spatial data analysis, remote sensing, and forest inventory. Combines UNIGIS postgraduate qualification with hands-on expertise in LiDAR processing, GIS solutions development, and environmental mapping. Proven ability to execute complex geospatial projects from field data collection to final map production.



WORK EXPERIENCE

Umweltdata JULY 2024- PRESENT
Forest & GIS Specialist

- Conduct comprehensive forest inventories and generate forest maps using GIS and remote sensing data.
- Process orthophotos and satellite imagery for detailed spatial analysis.
- Develop and implement GIS workflows to support forest management strategies.

Bureau for Forest Management and Geodesy 2015 - 2023
(BULiGL)

Forest Assessor & GIS Analyst

- Executed full and simplified forest inventories for national projects
- Processed spatial data using ArcGIS/QGIS for key initiatives:
 - National Forest Inventory
 - Biostrateg Program (Forest Research Institute)
 - Monitoring Beskidy
- Analyzed LiDAR data for terrain and forest structure assessment
- Designed forest road networks for operational efficiency
- Created cartographic outputs for forest management plans



EDUCATION

Jagiellonian University in Cracow 2022 - 2023
Institute of Geography and Spatial Management,
UNIGIS Geographic Information Systems

University of Agriculture in Cracow 2010 - 2016
Forestry Faculty, Forest Management, Engineering
thesis: Monetary value of timber resources in
„Uroczysko Kowalow Las” in Beskid Niski