

# Thibaut Voirand

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## Experience

**Remote sensing engineer and project manager**, Telespazio – Bordeaux, France Jan 2020 – present

- Designing, developing and implementing environmental and coastal monitoring services
- Project management, clients and partners relationships
- *EOatSEE*: Assessing the added value of EO-derived shallow-water bathymetry for extreme sea level events reconstruction
- *MedEOS*: Satellite-derived water quality mapping for land-based pollution assessment and monitoring in the Mediterranean coastal waters
- *Plastic-Less Society*: Feasibility study for a floating marine litter detection and collect optimization service
- *Marine-EO*: Combination of EO and numerical models for the monitoring of marine protected areas and aquaculture sites, conducted a one-month operational test campaign (TRL7)

**Remote sensing engineer**, Telespazio – Bordeaux, France Oct 2018 – Dec 2019

- Image processing chains prototyping for coastal environment monitoring with satellite imagery
- *Bathysat*: Prototyping a bathymetry retrieval processing chain based on high-resolution optical satellite imagery for the SHOM (French Navy hydrographic service)

## Education

**Paris Institute of Earth Physics**, MSc in Remote sensing – Paris, France 2017 – 2018

- Image and data processing, radiative transfer, planetary science
- *Master thesis* (at Telespazio): Development of a processing chain for coastal waters bathymetry and water quality retrieval with high resolution multispectral imagery

**Arts et Métiers - TU Dresden**, Dipl.Ing. (BSc/MSc) – Metz, France & Dresden, Germany 2012 – 2017

- Aerospace engineering and industrial engineering
- *Master thesis* (at TU Dresden): Development of a transfer trajectories and orbital perturbations simulation program for a power supplying satellite mission analysis

## Technical Skills

### Software engineering

- **Data Science**: Python, geospatial (GDAL, Rasterio, GeoPandas) and ML (scikit-learn, TensorFlow) libraries
- **Backend**: GitLab CI/CD, Docker, Kubernetes, Cloud computing, database management (PostGIS, MongoDB), Node.js
- **Frontend**: JavaScript, mapping libraries (OpenLayers, Leaflet, ArcGIS Maps SDK), HTML/CSS

### Certifications

- **Introduction to TDD**: From IBM via Coursera, 2023
- **Continuous Integration**: From UC Davis via Coursera, 2022
- **AI for Earth Monitoring**: From EUMETSAT ECMWF Mercator Ocean International and the EEA via FutureLearn, 2021

## Languages And Interests

**Languages:** French (mother tongue), English (C1), German (C1)

**Interests:** Playing guitar, rock climbing, hiking, creative coding (projects displayed on personal website)