

TOBIAS FISCHER

GIS and Remote Sensing Specialist



WORK EXPERIENCE

German
Archaeological
Institute

Berlin, Germany
06/2021 - 12/2022

● Research Associate

Topic: Cultural and Natural Heritage
Protection

Region: Worldwide

- Risk and damage assessment based on vector and satellite data
- Development of workflows and digital decision-making tools

geoSYS

Berlin, Germany
01/2021 - 05/2021
10/2021 - 08/2022

● GIS and Remote Sensing Specialist

Topic: Reforestation Monitoring

Region: Madagascar

- Object-based single-tree detection in drone imagery
- Derivation of silvicultural key figures
- Project coordination with stakeholders and local NGOs

Topic: Sustainable Agriculture

Region: Azerbaijan

- Time series analysis of vegetation indices
- Crop type classification and crop water deficit estimation
- Development of GEE Apps
- Training to partners

German Research
Center for Geosciences
Helmholtz Association

Potsdam, Germany
07/2020 - 10/2020

● GIS Analyst (Internship)

Topic: Climate Change

Region: European Alps

- Time series analysis of land surface temperatures
- Development of best practices working with Google Earth Engine

University of
New Caledonia

Remote Working
Nouméa, New Caledonia
06/2020 - 08/2020

● GIS Analyst (Internship)

Topic: Spatial-temporal dynamics of
land-use

Region: New Caledonia

- Machine learning based change detection
- Tracking of nickel mining expansion
- Development of maps

CONTACT

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🌐 <https://www.linkedin.com/in/TobiasGIS>

SOFTWARE

ArcGIS, ArcGIS Pro and QGIS

Google Earth Engine (GEE)

PostgreSQL/PostGIS

Microsoft Office Suite

Adobe InDesign and Illustrator

PROGRAMMING LANGUAGES

JavaScript

Python

R

EDUCATION

University of French Polynesia
Faa'a, French Polynesia
Expected completion in 2025

- **PhD in Remote Sensing**
 - Development of an environmental monitoring system for the terrestrial part of atolls
 - Focus on coastline detection and tree species classification

GIS Academy
Berlin, Germany
03/2020 - 10/2020

- **DEKRA-certified training as GIS Analyst**
 - Advanced hands-on training in geodata management and analysis, geostatistics and remote sensing
 - Project work in the field of land-use dynamics using remote sensing and machine learning techniques

Martin Luther University
Halle, Germany
09/2015 - 12/2019

- **M. Sc. International Area Studies**
 - Specialized in sustainable landscape development, land-use planning and geoinformation systems
 - Master thesis on environmental and protected area management based on the ecosystem service approach

Humboldt University of Berlin
Berlin, Germany
10/2011 - 10/2015

- **B.Sc. Business Administration**
 - Specialized in demography, economic geography and history
 - Bachelor thesis in the field of development economy

STAYS ABROAD

University of the West Indies
St. Augustine, Trinidad
09/2018 - 08/2019

- **Research Stay (PROMOS scholarship)**
 - Field work and data collection within the framework of the master thesis

University of Reunion Island
St. Clotilde, La Réunion
09/2017 - 07/2018

- **Erasmus Stay**
 - Master coursework in land-use planning and environmental management of insular ecosystems

University of French Guiana
Cayenne, French Guiana
09/2015 - 03/2016

- **Study Stay**
 - Master coursework in management and financing of sustainable development

University of the French Antilles and French Guiana
Schœlcher, Martinique
09/2013 - 08/2014

- **Erasmus Stay**
 - Bachelor coursework in economic geography, land-use planning and management

CERTIFICATIONS

NASA's Applied Remote Sensing Program

- **Satellite Observations for Analysing Natural Hazards on Small Island Nations**

- **Monitoring Coastal and Estuarine Water Quality**

ESRI

- **Cartography**

LANGUAGES

- ✓ German (native)
- ✓ French (fluent)
- ✓ English (fluent)