



# Michael Lambrecht

## Data Scientist

I hold a first-class MSc in Environmental Science and have worked on environmental related projects around the world. My passion lies in data science and the applications of machine learning, particularly related to remote sensing. I am proficient in using Python, HTML, CSS, and GIS software. Being committed to continuous development, I am currently learning MLops and basic web app creation.

### CONTACT ME

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📄 <https://github.com/MikeyLamb/ProfessionalPage>

📍 Cape Town

### EDUCATION

**University of Cape Town**  
**UCT - Environmental Science (85%)**  
2020 - 2022

**University of Cape Town**  
**BSc Honours Biological Science (78%)**  
2016 - 2019

**Online MOOCS**  
**MIT Python Programming (98%),**  
**Machine Learning,**  
**Deep Learning for Remote Sensing**  
2023

### SKILLS

- Spatial Data Analysis
- Python Programming
- Data Science
- ML: Linear/Logistic Regression, KNN, RF
- Critical Thinking
- Continuous learning and rapid skill acquisition

### WORK EXPERIENCE

Associate Researcher 2022 - 2024

#### University of Cape Town | South Africa

Currently testing the feasibility of using machine learning and deep learning models to map beaches on the West Coast of South Africa. Responsible for maintaining a geospatial database of mining applications and mapping the fishing locations of small-scale fishers in South Africa.

Agricultural Researcher 2023

#### EFTAS | Germany and Czech Republic

Freelance work for EFTAS working on the European Monitoring of Biodiversity in Agricultural Landscapes (EMBAL) project. EMBAL is an EU funded surveying project which aims to assess land cover and land use by determining present habitat types (EUNIS classification). Went on a one week training camp in Germany and then worked in the Czech Republic mapping field boundaries and performing biodiversity surveys.

Field Technician 2022

#### Panthera | Saudi Arabia

Spent three months working as a field technician for Panthera and the Arabian Leopard Initiative. The work involved setting up and monitoring camera trap stations in remote mountainous regions across Saudi Arabia and basic processing of the imagery.

Project Manager 2022

#### City of Cape Town | Cape Town

Worked as a project manager on a pilot project to rehabilitate a portion of the Liesbeek River canal in Cape Town, South Africa funded by the Dutch Foreign Ministry. Palmiet seedlings were planted into the river to stabilise the soil. Research into water quality, biodiversity and the social impacts of the rehabilitation was conducted to determine a baseline of the river environment. This work was being done in conjunction with the City of Cape Town, the University of Cape Town, the Dutch Foreign Ministry, Hogeschool Rotterdam, and the Friends of the Liesbeek.

### REFERENCES

#### Prof. Merle Sowman

UCT - Current employer

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#### Dr. Kirsten Day

BirdLife - MSc Supervisor

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