

MICHAEL LAMBRECHT

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PROFILE

A dual South African and German national with a first-class MSc in the Environment and Sustainability at the University of Cape Town (UCT). Interested in applying advanced remote sensing data analysis techniques to the fields of conservation and environmental management. Skilled in using GIS software as well as data analysis using R Studio. Learning Python programming, Google Earth Engine, machine learning, and deep learning. Comfortable working in remote environments.

EDUCATION

2023: MOOCs:

- MIT Introduction to Computer Programming and Python
- Wageningen Drones for Agriculture
- Machine Learning in R: Land Use Land Cover Image Analysis
- Deep learning for Earth Observation

2020 - 2021: Master of Science (Environment, Society and Sustainability), UCT, South Africa

- 85% for thesis
- 76% (3rd in class) for courses in Environmental Law, Theory and Practice of Environmental Management, Urban Ecology and Environmental Economics.

2019: Honours (Biological Sciences), UCT

- First class pass graduating 4th in the class

2016-2018: Bachelor of Science (Applied Biology and EGS), UCT

- Deans merit list (2018) – awarded in recognition of academic excellence

ACHIEVEMENTS/ROLES AND RESPONSIBILITIES/SPORT

2022: Awarded best Master's coursework thesis for 2021 by the Society of South African Geographers

2019: Chair of Transformation on UCT cycling team committee

2019: Head of Volunteers at iSondlo Vegetable Garden, UCT

2018 - 2019: Half-colours for cycling at UCT

EXPERIENCE

2021 – current: Work as a researcher for a One Ocean Hub funded project mapping small scale fishing areas to inform a fisheries management plan in South Africa in collaboration with UCT

2023: Worked for EFTAS mapping agricultural biodiversity in the Czech Republic for an EU-funded project called European Monitoring of Biodiversity in Agricultural Landscapes (EMBAL).

2022: Spent 3 months in Saudi Arabia working for Panthera setting up camera traps

2021 – current: Working as an associate researcher at UCT on a project funded by the One Ocean Hub mapping fishers on the West Coast of South Africa.

2023: Worked as a freelance researcher for EFTAS undertaking Agricultural surveys in Czech Republic on an EU funded project called EMBAL.

2022: Spent 3 months in Saudi Arabia working for Panthera setting up camera traps

2022: Presented Masters thesis and gave lecture to BirdLife SA

2022: Worked as a project manager for the Liesbeek Rehabilitation Project

2021: Worked on contract for RePhotoSA recapturing historic photographs to track vegetation change

2021: Presented Masters thesis at IAIAsa National Conference

RESEARCH

2023: Lambrecht, M., Sowman, M. and Day, K., 2023. South Africa's EIA Screening Tool: A preliminary study of how users perceive its accuracy and utility. *Impact Assessment and Project Appraisal*, 41(2), pp.102-113.

2022: Published a paper in the journal *Impact Assessment and Project Appraisal*

2022: Awarded best Masters coursework thesis for 2021 by the Society of South African Geographers

2021: Masters dissertation title: 2021: Master's dissertation title

- A preliminary assessment into the accuracy and utility of the environmental impact assessment screening tool, South Africa

2021: Presented Masters thesis at IAIAsa National Conference

2019: Honour's thesis title

- Rooibos (*Aspalathus linearis*) growth and physiological performance in a cool and wet Elim district, South Africa

SKILLS

Teaching and Facilitating

- Demonstrate for undergraduate students at UCT
- Taught children about the environment (Roots and Shoots & Plant the Seed)
- Facilitated bicycle maintenance workshops (GVHS) and cycling coach (Trail Angels)

IT and computer

- Proficient in MS Office, R studio, QGIS
- Learning: Machine learning, deep learning
- Proficient in Python

Communication

- Languages: English
- Public speaking developed through class and thesis presentations

REFERENCES

Dr Dunja MacAlister, Hons supervisor, UCT: bscdun001@myuct.ac.za, cell: +27 72 693 2020

Professor Merle Sowman, MastersMaster's supervisor, and current lead researcher in One Ocean Hub mapping project, UCT: merle.sowman@uct.ac.za, cell +27 824529738

Philip Faure, Panthera boss in Saudi Arabia, pfaure@panthera.org, cell +27 73 215 9187