Haingo Andry

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EXPERIENCE

DataProphet   Cape Town
Data Scientist Intern   Jun 2024 — Jul 2024

EDUCATION

African Institute for Mathematical Sciences   South Africa
M.Sc. in Mathematical Sciences (AI for Science)   Sep 2023 — Jul 2024
"Digital Surveillance of Infectious Diseases through Language Models"

- Applied Machine Learning
- Natural Language Processing
- Computer Vision
- Reinforcement learning
- CUDA programming
- Cloud and functional programming

University of Antananarivo   Madagascar
M.Sc in Physics   Jun 2016 — Feb 2022

TECHNICAL SKILLS AND LANGUAGES

Technical: Python, Deep Learning (PyTorch/JAX), CUDA C++, git, Linux, Google Cloud Computing
Language: English, French

PROJECTS

- *Digital surveillance of infectious diseases through language models*   2024
    - Created gold standard NER dataset
    - Designed and deployed an Information Extraction pipeline based on domain knowledge
    - Conducted training on pre-trained language models
    - Utilized autoencoders for anomaly detection in the early detection system.

- *Ecological bioacoustic Deep Learning*   2024
    - Implemented data preprocessing techniques, including filtering and spectrogram generation.
    - Deep learning model for acoustic data to classify bird presence.

AWARDS AND SCHOLARSHIPS

Google DeepMind Scholarship (AI For Science)   2023
DARA Basic Training   2022

TRAINING & WORKSHOP

Global 21cm Experiment Workshop   STIA, South Africa, 2023
Development in Africa with radio astronomy   GRAO, Ghana, 2022
Summer school on Cosmology   ICTP (online), 2022
5th Azarquiel School   Istanbul Univ. (online), 2021
CHPC Training   CHPC South Africa (online), 2021

PUBLIC TALKS

HEPMAD22, SIMBA: bias parameterization   Antananarivo, Madagascar, 2022
World Space Week event   U.S Embassy, Madagascar, 2021

VOLUNTEERING

AIMS Siyakhula   2024
African Astronomy Society   2019 – 2023
Malagasy Astronomy and Space Sciences   2019 – 2023

Publications

- NHM Andry (2022), Comparing the neutral hydrogen and the dark matter distributions using a representative mock universe, Paper presented at Hepmad22. Oct 2022, SLAC Stanford.