

Martílio BANZE

CAREER OBJECTIVE

High Performance Computing, Climate Modeling, Data Science and Quantum Physics

EDUCATION

2023 *Degree in PHYSICS AND MATHEMATICS, Pedagogical University Maputo;*

2018 *Degree in METEOROLOGY, Eduardo Mondlane University.*

WORK EXPERIENCE

Present	NATIONAL INSTITUTE OF ELECTRONIC GOVERNMENT, (INAGE, IP) HPC Administrator: Works as a High Performance Computing (HPC) administrator at the National Institute of Electronic Government. Has worked as a support scientist for the national academic and research community, and has experience in data science. Has experience in Python, Matlab and also the WRF Model. Has participated in several international and national science and technology conferences.
Oct-2022	INAGE, IP Main tutor of high performance computing in the training workshop
May-2021	DARA Project at UEM < www.dara-project.org >. Tutor of high performance computing
2019-2020	National Emergency Operative Center (CENOE) , INGD Internship
2019	Be-Girl-Moçambique Advanced MO-Excel Monitor (BeGirl Employee)
2018	National Institute of Meteorology (INAM, IP) Internship
2016-2017	Movitel, SA , Matola Branch Asset Manager

PROFESSIONAL TRAINING AND WORKSHOPS

Nov-2022	<i>Training Workshop on WRF Model and Geographic Information Sciences, SADC (South Africa, Pretoria).</i>
Set-2022	<i>High Performance Computing (HPC) Practical Course, High Performance Computing Center of South Africa (CHPC).</i>
Mar-2022	<i>Advanced Network Management, INAGE, IP.</i>
2018-2020	<i>Basic training in Radio Astronomy, UEM and Hartebeesthoek Radio Astronomy Observatory (HartRAO), RSA.</i>
2019	<i>Linux and Python, CHPC-RSA.</i>
2018	<i>Adaptation to Climate Change and Disaster Risk Reduction, UEM/USAID.</i>
2016	<i>Arc-GIS for Natural Resource Management, UEM.</i>
2016	<i>Operations and Standards Tsunami Warning and Emergency Response Procedures in Mozambique, National Institute of Meteorology (INAM) in partnership with UNESCO.</i>

PROJECTS

Use of High Performance Computing to Solve Physics Problems: Solving the Schrödinger Equation (Ongoing 2023)

This project aims to develop a computational method based on finite differences and implemented in Python language to solve the Schrödinger equation and apply it to study the behavior of quantum systems in different scenarios.

SKILLSET

Computer:	Working knowledge of Python, MATLAB, Spectrum Familiar OS: Windows, Unix/Linux.
Soft Skills :	Excellent Public speaker, works well in team, good at problem solving