Jackson Mulokozi

KEY-WORDS:
CLIMATE CHANGE · SUSTAINABILITY · AQUACULTURE

PROFILE

I am a First -year PhD student in Agri-systems specializing in Sustainable Aquaculture and Climate Change.I sincerely appreciate the Unisita Cattolica and Impact ED4 Foundation for this study opportunity.

The interaction with my fellow students from all over Africa and other countries, and international professors is such a huge opportunity which I am enthusiastically looking forward to explore, among others.

AFFILIATION

Department of Animal science, Food and Nutrition (DIANA)
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LANGUAGES

Mother language
Level C 1

English Level C 2

HOW TO REACH ME

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Reference Contact

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PROJECT TITLE

The Impact of Climate Change on Aquaculture Production in Uganda.

Steps of the research

- Determination of impact of temperature on the severity of fish diseases using edwardsiellosis in Nile Tilapia under controlled temperatures.
- Examine the impact of temperature on the reproductive efficiency of farmed fish in Uganda.
- Estimate the of impact of climate change on aquaculture farmers' income.
- Assess the adaptation measures being practiced by the farmers to counteract the impact of climate change.

Main Results

N/A

Research Contribution

This research is expected to significantly contribute to the sustainability of aquaculture sector in Uganda.
The most efficient adaptive methodologies adopted will make the aquaculture sector more resilient amidist the increasing effects of climate change. A high productive aquaculture sector means better icome and nutrition through sale and feeding respectively.

Collaborations

No collaborations yet, but I am open to collaborations.

Why should you care?

Aquaculture is one of the fastest growing sectors in Uganda employing over a million people both directly and indirectly, and the most viable option to meet the growing demand for fish given the increasing population. However, the sector is being threatened by the impact of climate change leading to low productivity.
How do we know if the reproductive potential of fish is slowly being affected by the increasing temperature? Who knows if the increasing temperatures have initiated mutations in both parasites and pathogens? Hence increasing their virulence? Poor fish performance in terms of growth rate and weight gain means increased use of inputs like feeds and chemicals against parasites and pathogens. This means higher envirnmental impact and cost of production leading to low productivity of the sector