

# Mwenya Silombe

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Lusaka, Zambia | +260974887272 | silombe@yahoo.com | [www.linkedin.com/in/mwenyasilombe](http://www.linkedin.com/in/mwenyasilombe)

## Professional Profile

As an accomplished professional with a unique blend of expertise, I bring a comprehensive understanding of the interconnected realms of Ecological Public Health, One Health, Climate-Smart Agriculture, and Environmental conservation. Equipped with an MSc in Ecological Public Health, an MBA in Project management, and a BSc in Soil Science, I have dedicated my career to exploring the complex relationships between environmental factors, climate change, and public health. My extensive experience in One Health approaches has empowered me to design and implement integrated, collaborative solutions that address the needs of human, animal, and environmental well-being. Additionally, my expertise in Climate-Smart Agriculture has enabled me to develop sustainable agricultural practices that enhance productivity, build climate resilience, and minimize environmental impacts. Leveraging my in-depth knowledge of environmental management and conservation, I am committed to driving positive change and advocating for evidence-based policies that safeguard our natural ecosystems and resources. I am seeking a PhD opportunity in Planetary Health, One Health and Environmental Science.

## Competencies

- *Proficient in SPSS, Stata, and Excel statistical analysis*
- *Experienced in qualitative and quantitative data collection and interpretation*
- *Skilled in project management, stakeholder engagement, and collaborative initiatives*
- *Excellent writing and speaking skills in the English language*
- *Scientific writing*

## Education

May 2024                      *Master of Science in Ecological Public Health*

*University of Zambia, Lusaka- Zambia*

*Thesis: "The Effect of Climate Change on Malaria Incidence rates in Zambia"*

February 2023              *Master of Business Management in Project Management*

*DPU, India*

January 2017                *Bachelor of Science in Agriculture*

*University of Zambia, Lusaka- Zambia*

## **Experience**

### **Lecturer, Department of Agricultural and Environmental Sciences**

*Information and Communication University, 2021- Present*

- *Develop and deliver engaging lectures on topics related to planetary health, climate change impacts, and environmental determinants of health*
- *Mentor and guide students in research projects, encouraging interdisciplinary approaches*
- *Organize guest speaker sessions and interdisciplinary panels to foster knowledge-sharing*

### **Research Assistant, Environment and Health**

*Zambia Research Development Center, 2022- Present (Part-time)*

- *Conducted field research on the effects of climate change on vector-borne diseases in Zambia*
- *Analyzed quantitative and qualitative data using SPSS and Excel statistical software*
- *Contributed to the development of research papers and presentations for peer-reviewed publications.*

### **Tutor, School of Natural Sciences**

*Gideon Robert University, 2017- 2021*

*Conducted one-on-one and small group tutoring sessions to reinforce course material, clarify concepts, and help students develop critical thinking and problem-solving skills.*

*Designed engaging lesson plans and instructional materials to supplement course curricula and address the unique learning needs of each student.*

*Provided detailed feedback on assignments, essays, and exam preparation to help students improve their performance*

## **Certifications**

<i>March 2024</i>	<i>One Health: Concept, cases and methodology Swedish University of Agricultural Sciences</i>
<i>July 2023</i>	<i>Concept of One Health for Zambia Food Agriculture Organization</i>
<i>March 2023</i>	<i>Research Methodology University of Zambia</i>
<i>September 2021</i>	<i>Public Health UNHCR</i>
<i>August 2021</i>	<i>Introduction to Climate Change school of climate change- Oxford Climate Society</i>

## **Publications**

1. *Effects of Climate Change on Malaria Incidence Rates in Selected Districts of Zambia, Over Seven Years: A Retrospective Study. Climate and Health Journal, 2022.*
2. *Rabies Realities: Navigating Barriers to Rabies Control in Rural Zambia—A Case Study of Manyinga and Mwansabombwe Districts (4th Author), 2024*

#### **Papers under peer review**

1. *Plant Disease and One Health: The link between Plant Health and Human Health, and Ecosystem Resilience*
2. *Effects of Water Stress and Exchangeable Calcium on Pre-Harvest Aflatoxin Concentrations in Groundnuts*

#### **Conference Presentations**

1. *The influence of atmospheric temperature and rainfall on Malaria Incidence Rates in Selected Districts of Zambia, Over Seven years: A Retrospective Study, School of Public Health (UNZA) SHEPIZ Conference, 2023*
2. *Investigating the emergence and spread of antimicrobial resistance in both human and animal populations, ZRDC Conference, 2023*
3. *Implementations of climate-smart agriculture projects on small-scale farmers in Chongwe District of Zambia, ZRDC Conference, 2022*

#### **Honours & Awards**

*Employee of the month (March 2023), best GIS student, ACEIDAH Master scholarship and Indian government sponsorship, master class representative, and best research assistant.*

#### **Interests & Hobbies**

*Playing soccer and tennis, community work, cultural dances, and making friends*

#### **References – Available on Request**