

*The Path to
Independence:
Capacity
Building
Lessons from
Buruli ulcer
research*

Lydia Mosi

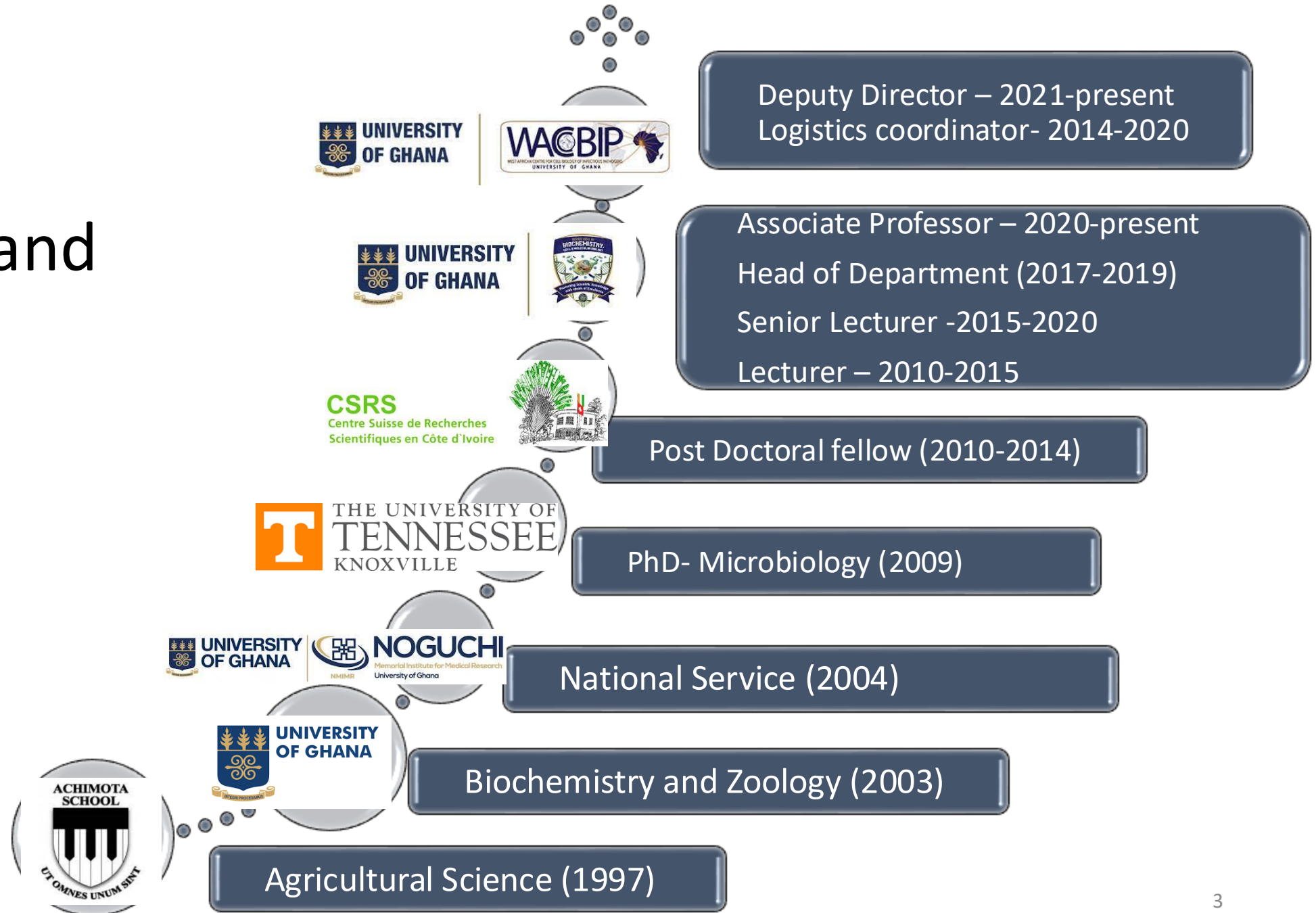
- *Associate Professor of Cell and Molecular Biology,
Department of Biochemistry, University of Ghana*
- *Deputy Director, Administration, West African Centre for
Cell Biology of Infected Pathogens*

• NBIC WIS 2025

A journey
through
pictures and
outputs!

- ❑ *Foundations*
- ❑ *Research Scope*
- ❑ *Tenure tracking at University of Ghana*
- ❑ *Defining your career as a woman in science*

Education and Roles held



University of Tennessee 2004-2009

Laboratory Models of Infection and Transmission of *Mycobacterium ulcerans*; causative agent of Buruli ulcer disease

Pamela L. C. Small

**Graduate Teaching Assistantship
Association for women in science**

6 publications (1st Author)



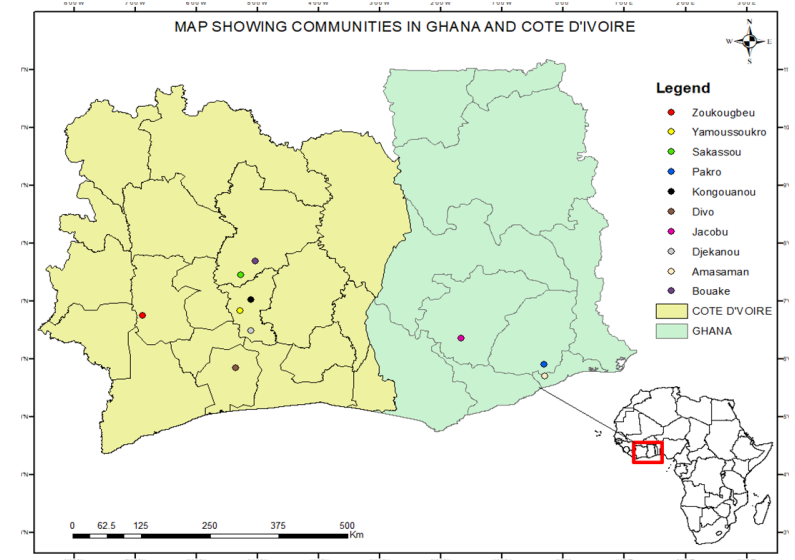
Great Memories!

Afrique One-Wellcome Trust post-doctoral fellowship – 2011-2014

Zoonotic transmission of nontuberculous mycobacteria between humans and small mammals

Prof. Bassirou Bonfoh

CSRS
Centre Suisse de Recherches
Scientifiques en Côte d'Ivoire



5 publications
(Corresponding Author)



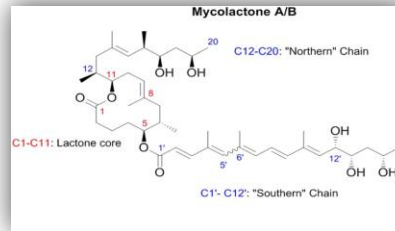


UG faculty – 2010- present

MOSI Research Group



Mycobacterium ulcerans



☐ Buruli Ulcer

- Transmission
- Sporulation in Pathogenesis:
- Natural Antioxidants to enhance wound healing.
- Genetic Diversity of myolactone producing mycobacteria

☐ Bioremediation: Reducing post-harvest losses and food waste by producing bioethanol, eco-enzyme detergent, and fertilizer.

☐ Water Quality Analysis

☐ Collaborative Projects: SARS-CoV-2 Host- Viral Dynamics.

☐ Microbiome research.





☐ >30 publications





Training workshop



Training workshop



Motor cycle donation for field work



Dr. Charles Quaye



Health workers at the workshop



Demonstration of how to swab ulcer lesion

Think Outside the Box

A documentary that **tributes to the African women researchers who are making an indelible mark** in the field of global health.

This unique project immerses us in the lives and achievements of **these courageous women scientists, highlighting their crucial role** in the fight against neglected tropical diseases and their inspiring commitment to a future where the Right to Health is guaranteed for all.



Career and success



Noun - An occupation undertaken for a significant period of a person's life and with opportunities for progress.



Verb - move swiftly and in an uncontrolled way



WORK **X**



If you are doing what you love, then it's not really "work"

Success is not solely defined by your academic path!

Determine Your Interests

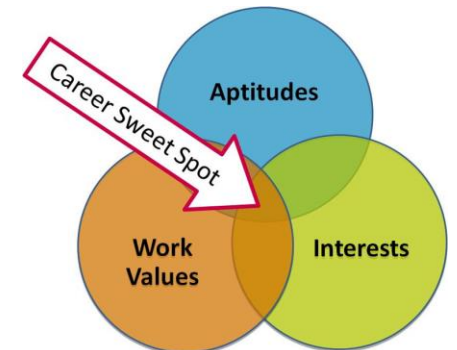
- What do I like to do?
- What do I value?
- What motivates me?
- What keeps my curiosity?
- What skills do I possess?
- What new skills can I develop?

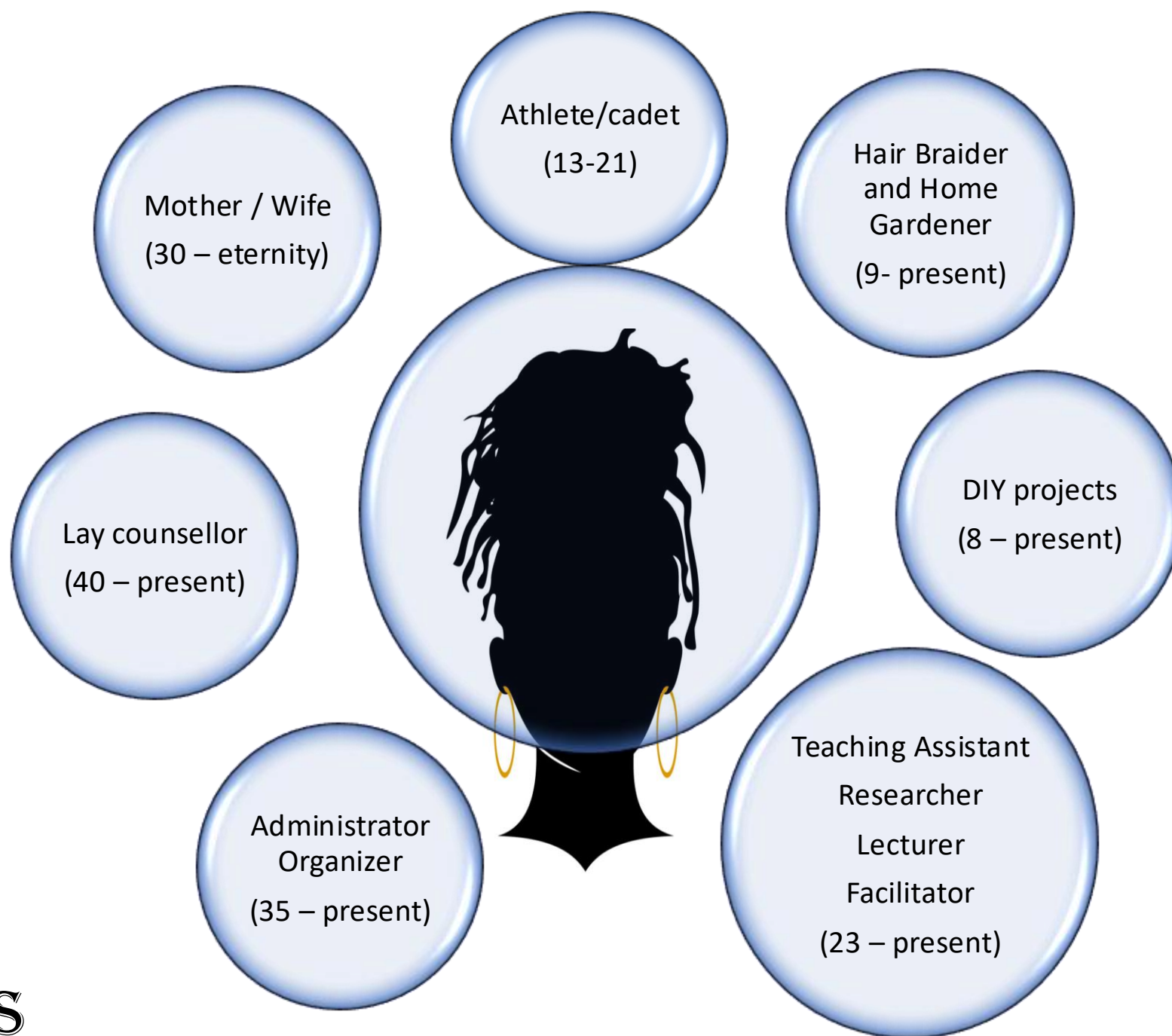
Discover Your Career

- What are examples of careers in my chosen major or field of interest?
- What job titles interest me?
- What type of work environments do I like?
- Where can I go to research my chosen career or field of interest?

Plan your Goals

- Do I have the resources to pursue these options?
- What challenges might be presented during my educational pursuit?
- What challenges exist in the job market?
- What else do I need to know to identify my career objectives?
- Do I need to conduct more self-assessment or career research to make a career decision?



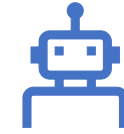


MY SUCCESS

My experience as a scientist



A life of continuous search for knowledge through research



A quest to solve problems that confront humanity ranging from diseases, pollution, etc.....



A devotion to a system of thinking



Careful attention to minute details at every stage of research



Role modeling



The stress of funding research anxiety about the success of an experiment, getting good students to work in your lab.

Thank you for your attention

