Strategies for a successful PhD: Experiences and Lessons

RSIF Cohort III Scholars Orientation

1st July 2021







An Africa-led initiative to bridge the skills gap in Applied Sciences, Engineering, & Technology



1

General Introduction to Ph.D. Studies





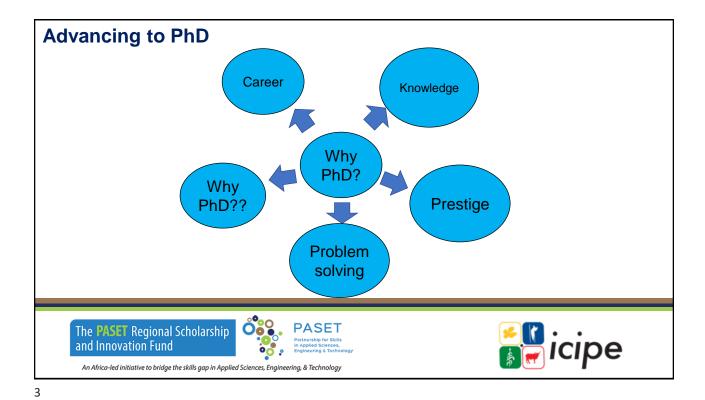
Sylvia Maina
Thematic area: Food security and agribusiness
PASET-RSIF Scholar, SUA
IPI: KIST





icipe

An Africa-led initiative to bridge the skills gap in Applied Sciences, Engineering, & Technology



The PhD

- · Scope: deep
- · Novelty, problem solving and knowledge acquisition
- Takes time
- Independency
- · Research oriented
- No linear movement

Have motivating reasons







An Africa-led initiative to bridge the skills gap in Applied Sciences, Engineering, & Technology



Stages in PhD

Stage 1

Stage 2 **Getting immersed**

Getting focused

Stage 3

Stage 4

Getting started

Adapting Identifying and setting up the mind on PhD topic Joining research teams Networking

Brainstorming and reading wide

Designing methodology

Course work

Field visits Questioning

Co authoring team

members research

Workshops and conferences

Networking

Reality on experiments analysis, modelling validations implementation and testing, Journal articles Making presentations Workshops and conferences Networking

Mentoring

Getting done

Completion Publication

Defense

Networking

The **PASET** Regional Scholarship and Innovation Fund



An Africa-led initiative to bridge the skills gap in Applied Sciences, Engineering, & Technology



Tools, Players and agents for the PhD

- Supervisors: "fantastic supervisor"
 - · Passionate about your research
 - Read Prof CV, publications prior
 - Gauge prof priorities, passion and align research objective
 - Willing to engage student in activities outside personal research
- · Advisors and faculty: mentor, offer research advice
- · Colleagues: Maximize them, seek help, learn
- · Institutions (laboratories, equipment, expertise): availability of facilities to accomplish the research objectives
- · Funders: minimize financial stresses

The **PASET** Regional Scholarship and Innovation Fund



An Africa-led initiative to bridge the skills gap in Applied Sciences, Engineering, & Technology



RSIF Scholars' Experiences

- Lessons (AHU and IPI)
- · Achievements and Challenges
- Observations and recommendations
 - · Dos and don'ts







An Africa-led initiative to bridge the skills gap in Applied Sciences, Engineering, & Technology

7

Strategies for a successful PhD: Experiences and Lessons





Emmanuel Effah Thematic Area: Computer Science, Agri-IoT PASET-RSIF-Scholar, UGB-Senegal IPI: WPI, USA

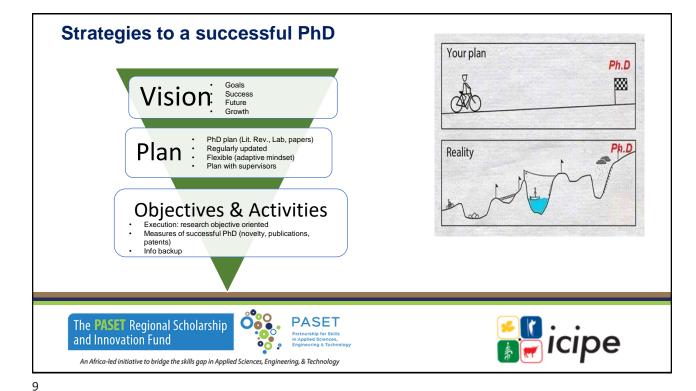
Lecturer, UMaT-Tarkwa, WR, Ghana

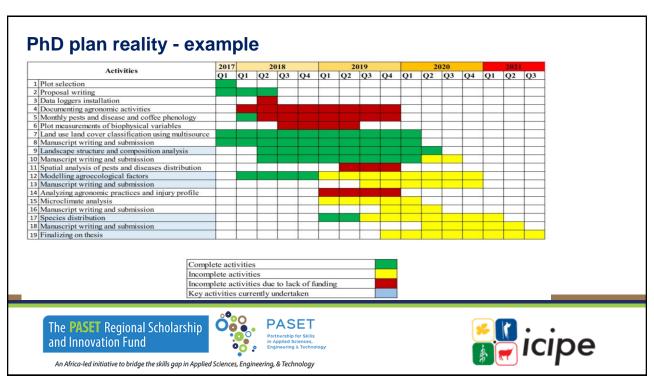






An Africa-led initiative to bridge the skills gap in Applied Sciences, Engineering, & Technology





Self care during PhD

TALK TO YOUR SUPERVISOR

It is not always possible, but if you can approach your supervisor, discuss your mental health concerns with them. Other options include discussions to reduce workload temporarily and taking time out.

TALK TO YOUR PEERS/POSTDOCS

It is highly likely that people around you have also experienced the stressful nature of a PhD. Reach out, if you feel able. Remember, postdocs have survived their PhD so may have some useful tips/ coping strategies.

TAKE SOME TIME OUT

Taking a break can actually improve efficiency when you return to work. If you cannot justify taking a couple of weeks off, take a series of long weekends to get some time away.

SEEK MEDICAL ADVICE

Speak to a medical professional about how you are feeling. This may lead to intervention such as medication or counselling to help you manage your mental health.

CREATE MANAGEABLE CHUNKS

If everything is overwhelming, try to breakdown your research into manageable tasks. It may help to do this in consultation with your supervisor. When writing, consider starting with figures first.

Don't feel guilty taking breaks

The **PASET** Regional Scholarship and Innovation Fund



icipe

An Africa-led initiative to bridge the skills gap in Applied Sciences, Engineering, & Technology

11

Beyond the PhD: Build a Lifelong Career

- · Post-Doc. & multidisciplinary research projects
- Career (Teach, research and service)
- Apply for research grant, fellowships & Consultancies
- · Consultations and leadership training
- · Travel to conferences
- Collaborate with others on their research and publications

The **PASET** Regional Scholarship and Innovation Fund



icipe

An Africa-led initiative to bridge the skills gap in Applied Sciences, Engineering, & Technology

RSIF scholar experiences

- Lessons (AHU and IPI)
- · Achievements and Challenges
- · Observations and recommendations
 - · Dos and don'ts







An Africa-led initiative to bridge the skills gap in Applied Sciences, Engineering, & Technology



Thank you





An Africa-led initiative to bridge the skills gap in Applied Sciences, Engineering, & Technology

For more information contact

Regional Coordination Unit

Regional Scholarship and Innovation Fund International Centre of Physiology and Ecology (*icipe*)

P.O. Box 30772-00100, Nairobi, Kenya

Tel +254 (20) 8632000



- dg@icipe.org, icipe@icipe.org, rsif@icipe.org
- facebook.com/TheRSIF
- pasetrsif
- in linkedin.com/in/PASET-RSIF/