

PERSONAL INFORMATION

Olivier Dayou

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WORK EXPERIENCE

01/05/2019–31/07/2019

Graduate research intern, International Center of Insect Physiology and Ecology (ICIPE), Nairobi (Kenya)**Research project:** Molecular mechanisms underlying *Metarhizium anisopliae*-based biopesticides resistance in Fall armyworm (*Spodoptera frugiperda*)**Scope of Duty:**

- Bio-assay for compatibility between selected *Metarhizium anisopliae* isolates
- Time-series sampling of survival eggs and insect larvae

10/02/2017–30/06/2019

Research assistant/Graduate student, Plant Transformation laboratory, Kenyatta University, Nairobi, Kenya**Duties and responsibilities:**

- Macroscopic screening for witchweed *Striga hermonthica* resistance in pearl millet (*Pennisetum glaucum*)
- Agar gel-assay for the identification of low *Striga* germination stimulant traits in *P. glaucum* genotypes
- Dual histological analyses of *S. hermonthica* and *P. glaucum* association

01/09/2017–24/12/2018

Visiting Scholar-Graduate Student (Funded by German Academic Exchange Service (DAAD)), University of Münster, Germany**Research project:** Co-transcriptomic analyses to understand *Striga* resistance in pearl millet**Duties and responsibilities:**

- Design and execution of co-transcriptome experiment
- Time series (25 hours) sampling of *Striga* haustorium/Pearl millet root interfaces
- RNA-extraction for dual RNA-sequencing

02/04/2015–13/03/2016

Undergraduate research intern, Africa Rice Centre, Genetic Resources Unit, Cotonou (Benin)**Duties and responsibilities:**

- Conducting research experiments in the greenhouse for morphological characterization of worldwide rice accessions
- Evaluation of the yield performances

06/06/2014–16/12/2014

Research intern, University of Abomey-Calavi, Cotonou (Benin)**Project:** Diagnostic studies: Assessing the effects of large scale farmers's practices and pests on the quality of G4 and F1 generations of soy beans (*Glycine max*) seeds for Certification**Duties and responsibilities:**

- Conducting field visits and surveys targeting soy beans seed farmers for information on production, challenges, a measure of handling these issues in research and devising ways for high quality and productivity
- Undertaking phytopathology work to diagnose and device control measures for plant pathogens on

EDUCATION AND TRAINING

- 01/09/2016–14/06/2019 **Master of Science (Biotechnology), Kenyatta University, Nairobi (Kenya)**
Funded by German Academic Exchange Services (DAAD)
Main subjects:
- Molecular Plant Breeding
 - Molecular Population Genetics
 - Genetics Engineering
 - Plant Cell and Tissue Culture
- 05/10/2011–26/01/2015 **Bachelor of Science (Crop Sciences), University of Abomey-Calavi**
Excellence Benin Government scholarship, Cotonou (Benin)
Main subjects:
- Plant Pathology and Plant Genetics
 - Agricultural Weed Sciences
 - Agricultural Entomology
 - Plant Physiology and Ecology
- 05/10/2008–20/07/2011 **Baccalaureate (Biology-Geology)**
High school diploma of Klouekanmey (Benin)
Main subjects:
- Biology
 - Mathematics and Physics
 - Geology
- 06/10/2004–12/08/2008 **Pre-secondary Education Certificate**
Pre-secondary school of Klouekanmey (Benin)
Major subjects:
- Biology
 - Mathematics and Physics
 - Geology
- 05/10/1997–02/06/2004 **Primary Education Certificate**
Klouekanmey (Benin)

PERSONAL SKILLS

- Mother tongue(s) French
- Foreign language(s) Fluent English
- Communication skills Fluent English and French

ADDITIONAL INFORMATION

Presentations

- **08/07/2019:** MSc research findings presented at **National Institute of Agricultural Research (INRA), University of Angers, France**
- **14/06/2019:** M.Sc. defense, **Kenyatta University, Nairobi, Kenya**
- **12/12/2017:** M.Sc. progress report presentation, **IEB, University of Muenster, Germany**
- **26/01/2015:** B.Sc. thesis defense, **University of Abomey-Calavi, Benin**

Scientific conferences, workshops & seminars attended

- **24/06/2019- 12/07/2019: Plant health and Plant quality Summer School, Angers, France**
- **02/02/2019-08/02/2019:** Scientific Communication and Publishing, Organized by **DAAD, Kenya**
- **23/1/2018:** Adaptive evolution NOT driven by natural selection!? On individual responses, non-genetic inheritance, and fleshing out the second term of that famous Price equation”, **Germany**
- **26/06/2018-28/06/2018:** Plant Genomics Tools for **Striga** management, **Kenya**
- **23/01/2018:** How population dynamics drive speciation in flowering plants, **Germany**
- **26/06/2017:** Fundamentals of scientific grant proposal writing, **Kenya**

Trainings

- **9/08/2018-10/08/2018:** Open Science for Collaborative and Reproducible Research using Bioinformatics tools, **University of Nairobi, Kenya**
- **5/05/2018- 4/08/2017:** Introduction to Bioinformatics funded by **H3ABionet** facilitated by **International Center of Insect Physiology and Ecology (ICIPE), Kenya**
- **26/06/2017-30/06/2017:** Statistical Methods and Data Analysis with R Training **Bio-statistics Unit, ICIPE, Kenya**
- **05/01/2016-30/06/2016:** Plant Breeding Training at **Horticulture and Genetics Unit, University of Abomey-Calavi, Benin**

Honours and awards

- **24/06/2019- 12/07/2019: Plant health & Plant quality Summer school scholarship by the Regional Objective Vegetal program, Angers, France**
- **01/09/2017-31/01/2018:** **DAAD** visiting research scholar Award, **University of Münster, Germany**
- **01/09/2016-31/11/2018:** **DAAD** scholarship Awards for master's studies, **Kenyatta University, Kenya**
- **10/10/2011-26/06/2015:** **Benin Government Excellence Scholarship** Awards for undergraduate studies, **University of Abomey Calavi, Benin**
- **08/08/2011:** **Mono-Couffo** Regions High school Diploma Excellence and Talent Award, **Benin**

References

- **Prof. Dr. Jianqiang Wu:** Principal Investigator, Kunming Institute of Botany, Chinese Academy of Sciences (CAS).

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