CURRICULUM VITAE

NAMES

Mahougnon Lewis-Spencer A. GNANGLE

TITLE, RESPONSIBILITY, AND ACADEMIC AFFILIATION

Agronomist, Plant and Crop Sciences
Research Assistant
Unit of Genetics, Biotechnology, and Seed Science (GBioS),
Laboratory of Crop Production, Physiology and Plant Breeding (PAGEV),
Faculty of Agricultural Sciences (FSA),
University of Abomey-Calavi, Republic of Benin.

CONTACT DETAILS

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EDUCATION / QUALIFICATION

2015-2020: Agricultural Engineer diploma in Crop Sciences: Graduated in **Avril 2021** with **First Class Honors and Congratulation of Examination board**, Faculty of Agricultural Sciences, University of Abomey-Calavi, Republic of Benin.

2015-2019: General Agronomy Diploma, Faculty of Agricultural Sciences, University of Abomey-Calavi, Republic of Benin.

MOST RECENT SPECIFIC TRAINING

November 2023: **Online training** "Statistics and R". **eDX course-HarvardX**.
Training Instructor: Rafeael Irizarry (Professor of Biostatistics, Harvard T.H. Chan School of Public Health). Certificate link.

March 2022: **Online training** "Introduction to Statistics with R". **Fun MOOC – University Paris Saclay.**
Training Instructors: Bruno Falissard (Professor, Paris-Saclay University) and Christophe Lalanne (Statistician, University of Paris VII).

> **Key subjects:** Position measurements, Statistical tests, Graphic representations, Programming with R, Association between variables.

February 2022: Training on Statistical Data Analysis for Post Graduate Students and Staff using R Programming Language, **attended** from 7th - 19th February 2022. Organized by **RUFORUM. Training Instructors:** Prof. Susan Balaba Tumwebaze, Dr. Thomas Odong and Dr. Hellen Namawejje. **Contact person:** Prof Adipala Ekwamu, RUFORUM (Executive Secretary)

> **Key subjects:** Exploratory data analysis, Relationship between variables, Experiments (experimental designs) and surveys, ANOVA, Correlation and Regression analysis, generalized linear model, Mixed models, multivariate analysis.

December 2021: **Online training on** "Google Data Studio - Creating Interactive Dashboards". **Cousera project network**. **Training Instructor:** ELINGUI Pascal Uriel SME/DevOps, AI Expert.

> **Key subjects:** Data importation, appendix of data sources, data visualization.

July 2021: Training on "**Methods and tools for writing a literature review**", 2[sd] to 4th July 2021. Forest Biology and Ecological Modelling Research Unit (UR-BioME), Laboratory of Ecology, Botany and Plant Biology (LEB), University of Parakou, Benin. **Training Leader**: Dr BIAOU S.S. Honoré.

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June 2021: Training on "**Methods and tools for writing a Bibliometric analysis**", 18th to 20th June 2021. Forest Biology and Ecological Modelling Research Unit (UR-BioME), Laboratory of Ecology, Botany and Plant Biology (LEB), University of Parakou, Benin. **Training Leader:** Dr BIAOU S.S. Honoré.

WORK EXPERIENCES

October 2022 to March 2023: **Data manager and Monitoring**, **Cowpea Atlas Project**: "*Analysis of sociocultural and/or economic motivators or barriers to cowpea utilization at various stages and scales within production and market systems in West Africa*, **Phase 2: Development of Virtual Cowpea Atlas Platform in West Africa**". **Funded by Legume Lab/USAID.**
Responsibilities: (**1**) Organize and supervise data collection; (**2**) Manage national and regional databases from Benin, Niger, Nigeria and Senegal; (**3**) Define the models of data collection, data processing and data visualization; (**4**) Participate to project activities reports and monitoring meeting with funder.

December 2021 to Present: **Assistant Genebank curator (Database manager)**, Unit of Genetics, Biotechnology, and Seed Science (GBioS/PAGEV/FSA/UAC).
Responsibilities: (**1**) Manage the Genebank database; (**2**) Organize and monitoring seed prospecting and collection missions; (**3**) Data entry and data management; (**4**) Involved in management of TAVI, FRESH, SAFE-PGR projects (**5**) Participate in all activities related to seed management chain (drying, cleaning, packaging, storage…).

June 2021 to September 2022: **Data manager and Monitoring**, **Cowpea Atlas Project**: "*Analysis of sociocultural and/or economic motivators or barriers to cowpea utilization at various stages and scales within production and market systems in West Africa*, **Phase 1: Mapping Cowpea Data Sources and Gaps in West Africa**". **Funded by Legume Lab/USAID.**
Responsibilities: (**1**) Organize and supervise data collection; (**2**) Manage national and regional databases from Benin, Niger, Nigeria and Senegal; (**3**) Define the models of data collection, data processing and data visualization; (**4**) Participate to project activities reports and monitoring meeting with funder

June 2021: **Field agent**, *Taiwan Africa Vegetable Initiative* (TAVI) Project: "Multiplication of traditional African vegetables seeds". **Funded by Word Vegetable Center**.
Responsibilities: (**1**) Conducted interviews with farmers about traditional vegetables (uses and seed conservation); (**2**) Collected seeds samples of various vegetables.

Avril 2021 to present: **Research Assistant**, Genetics, Biotechnology, and Seed Science Unit (GBioS/PAGEV/FSA/UAC).
Responsibilities: (**1**) Assistance in project proposal writing; (**2**) Assistance in data analysis; (**3**) Assistance in research proposal writing and execution; (**4**) Assistant in experimental work (field work and data collection) Research breeding activities on Sesame (*Sesamum indicum* L.) (genotype by environment interaction, mutation breeding, combining ability trials).

February 2020 to March 2021: **Research Fellow** at Unit of Genetics, Biotechnology, and Seed Science (GBioS/PAGEV/FSA/UAC).
Experimental work on Sesame (Sesamum indicum, L): "*Agronomic performances, yield and yield components assessment in introduced and local Sesame (Sesamum indicum, L) genotypes in Southern Benin*".
Responsibilities: (**1**) Conduct of three trials in three different environments in southern Benin (Abomey-Calavi, Sekou, Massi); (**2**) Phenotypic data collection, (**3**) Data analysis with R.

KEY RECENT MEETINGS AND CONFERENCES

20 February to 24 February 2023: Feed the Future, Legume System Innovation Lab **Global Annual Convening,** Livingstone, Zambia
28 May 2021: Conference on "**Identification of predatory reviews in the publication process of scientific research results**". 5pm to 6pm. Faculty of Agronomic Sciences, University of Abomey-Calavi, Republic of

Benin. **Oral presentation of PhD Sylvain KPENAVOUN CHOGOU (Agricultural economist), lecturer at Faculty of Agronomic Sciences, University of Abomey-Calavi, Republic of Benin.**

28 May 2021: Conference on "**Territorial dimension in agroecology**". 2pm to 3pm30. Laboratory of Genetics, Biotechnology and Seed Sciences (GBioS), Faculty of Agronomic Sciences, University of Abomey-Calavi, Republic of Benin. **Oral presentation of Jean-Baptiste Molina from the University of Liege, Professional Master in Anthropology and Sustainable Development and in Agroecology**.

MOST RECENT PUBLICATIONS

1- Genotype $\times$ Environment Interaction and stability analysis for seed yield and yield components in sesame (Sesamum indicum L.) in Benin Republic using AMMI, GGE biplot and MTSI

Christel F. Azon, Nicodème Fassinou Hotegni, Eurydice Olga Deedi Sogbohossou, Lewis Gnangle, Guillaume Bodjrenou, Charlotte O. Adjé, Komivi Dossa, Clément Agbangla, Florent J.B. Quenum, Enoch G. Achigan-Dako. Published in Heliyon (2023) Volume 9, Issue 11, e21656 https://doi.org/10.1016/j.heliyon.2023.e21656

PERSONAL SKILLS

Computer skills: Good command of MS OFFICE software (Word, Excel, PowerPoint, Access), Good command and statistical analysis with R software, little knowledge of Python and Database management programming language SQL.

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