

CURRICULUM VITAE

NAMES

Pinawè Chèryle Agbandou (MSc), Biotechnology and Plant breeding

TITLE, RESPONSIBILITY AND ACADEMIC AFFILIATION

PhD Candidate

Department of Plant Production Sciences and Technologies, Faculty of Agriculture, Environment and Food Systems, University of Zimbabwe, 630 Churchill Ave, Harare, Zimbabwe

Genetics, Biotechnology and Seed Science Unit (PAGEV/GBioS/FSA), University of Abomey-Calavi, Republic of Benin.

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EDUCATION / BACKGROUND

2024 – Present: Doctor of Philosophy, **Plant Breeding and Genetics**, Department of Plant Production Sciences and Technologies, Faculty of Agriculture, Environment and Food Systems, University of Zimbabwe (UZ), Zimbabwe.

2020 – 2023: Master of Science, **Biotechnology and Plant Breeding**, School of Plant Sciences, Faculty of Agronomic Sciences (FSA), University of Abomey-Calavi (UAC), Republic of Benin.

2016 – 2020: Bachelor of Science, **Crop Science**, Faculty of Agronomic Sciences (FSA), University of Abomey-Calavi (UAC), Republic of Benin.

RESEARCH INTERESTS

Plant Breeding, Plant Biology, Genetics, Biotechnology, Phytopathology, Plant Genetic Resources Conservation and Seed Sciences.

MOST RECENT TRAININGS AND WORKSHOPS

November 2024:

- Regional training in Genomics and Plant Breeding, **Genetics, Biotechnology and Seed Science Unit (GBioS)**

August 2024:

- Building Opportunity for Lesser-known Diversity in Edible Resources (BOLDER)'s project national genebank inception workshop. **Global Crop Diversity Trust**, Nairobi/Kenya

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- Stakeholder consultation workshop for the BOLDER Initiative (Building Opportunity for Lesser-known Diversity in Edible Resources). **Global Crop Diversity Trust** and **Genetics, Biotechnology and Seed Science Unit (GBioS)**, Cotonou/Benin

Octobre 2023:

- Trade policy supportive of food security and nutrition, **FAO**.
- Introduction to trade, food security and nutrition, **Food and Agriculture Organization of the United Nations (FAO)**.
- Introduction to nutrition, **UNICEF**
- Gender-sensitive Climate Vulnerability and Capacity Analysis (GCVCA), **World Vision International**.

December 2019:

- Agricultural training in technical skills for agri-food businesses; option fish farming and fish processing

RESEARCH AND WORK EXPERIENCE

September 2023 – December 2024: Genebank Management Assistant | Genetics, Biotechnology and Seed Science Unit (PAGEV/GBioS/FSA), University of Abomey-Calavi.

- Seed management (collection, sorting, packaging and storage)
- Seed viability tests
- Seed regeneration
- Database management

July 2022 – July 2023: Research Fellow | Jimma University College of Agriculture and Veterinary Medicine (JUCAVM)/ **Ethiopia**

- Anthracnose (*Colletotrichum sublineola*) and Rust (*Puccinia purpurea*) resistant sorghum (*Sorghum bicolor*) genotypes selection
- Research proposal writing and field/greenhouse experiments establishment
- Screening of a large Ethiopian sorghum germplasm.
- Pathogens isolation, multiplication, and inoculation under greenhouse
- Scientific data collection and data analysis with R software
- Thesis writing

Thesis topic: Genetic variability among three groups of Ethiopian sorghum (*Sorghum bicolor* (L.) Moench) accessions for major agro-morphological traits and anthracnose (*Colletotrichum sublineolum* Henn.) resistance

January 2020 – December 2024: Research Assistant | Genetics, Biotechnology and Seed Science Unit (PAGEV/GBioS/FSA), University of Abomey-Calavi.

- Maize hybridization to obtain maize lines improved against Maize streak virus and F1 evaluation across multi location
- Maize streak virus phenotyping
- Rice hybridization
- Research proposal writing and field experiment establishment
- Multi-environment trials establishment
- Scientific data collection and data Analysis (R-software)

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- Supervision of Master's students' practical work on maize breeding (knowledge of the plant and reproductive organs, mode of reproduction and crossing activities).

July 2019 – October 2019: Internship| CREDI-NGO/ Benin

- Introduction to ecotourism
- Introduction to ecological agriculture
- Management of Horticultural crops, with particular emphasis on *Luffa cylindrica* (vegetable sponges)
- Biofertilizer production

SCHOLARSHIPS

2024-2026: Research Fellowship for PhD Work, **Vision for Adapted Crops and Soils (VACS) Initiative**

2024-2027: Intra Africa Mobility PhD Scholarship, Mobility for plant genomics scholars to accelerate climate-smart adaptation options and food security in Africa II (GENES II), University of Zimbabwe (UZ), Zimbabwe

2022 – 2023: Intra Africa Mobility MSc Scholarship, Mobility for plant genomics scholars to accelerate climate-smart adaptation options and food security in Africa (GENES), Jimma University College of Agriculture and Veterinary Medicine (JUCAVM), Ethiopia

PUBLICATIONS

- ▶ Hotegni, N. V. F., Sohindji, F. S., Salaou, M. A., **Agbandou, P. C.**, Azonhoumon, L. W., Tchokponhoué, D., Houdegbe, C., Adjé, C. A., and Achigan-Dako, E. G. (2024). Agronomic biofortification of cereals and legumes with iron, zinc, calcium and magnesium for food and nutrition security: Available options for farmers in Sub-Saharan Africa. *Journal of Agriculture and Food Research* 18, 101391.
- ▶ Emeraghi, M., Iseghohi, I., Idohou, J., Mkpuma, K. C., **Agbandou, P. C.**, Afouda, L., Akponikpe, P. I., Hotegni, N. V. F., Missihoun, A. A., and Oselebe, H. J. O. A. (2024). Yield assessment of new streak-resistant topcross maize hybrids in Benin. *Open Agriculture*, 9, 20220370.

REFEREES

Prof. Dr. Ir Enoch G. ACHIGAN-DAKO

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Crop Physiology, Post-Harvest biology and Horticulture

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