

Curriculum Vitae

October 03, 2025

NAME

GANTA Judicaël Sèwlan Oswald (PhD candidate)

TITLE, RESPONSIBILITY, ACADEMIC AFFILIATION

PhD student in Precision Agriculture (PATH project) at the University of Rwanda

Research assistant at GBioS (Genetics, Biotechnology and Seed Science Unit)

Msc in Crop protection; Faculty of Agricultural Sciences (FSA)/University of Abomey Calavi (UAC)/Republic of Benin

CONTACT DETAILS

Address: Musanze, Rwanda

Phone: +250 795296304/+229 0191482721

E-mail: gantajudicael05@gmail.com

LinkedIn: www.linkedin.com/in/judicaël-ganta-225217280

EDUCATION

- **PhD in Precision Agriculture** (PATH project) – University of Rwanda, College of Agriculture, Animal sciences and Veterinary Medicine (CAVM) | Since 2024
- **Professional Master's degree** in Crop Production Sciences and Techniques, with a major in Sustainable Pest Management and Bio-Pesticide Valorisation, Very good grade and congratulations from the examination board, 2022 – Faculty of Agronomic Sciences (UAC-Benin) | 2020-2022
- **Bachelor's degree** in Agronomic Sciences, with a major in Crop Production Sciences and Techniques, Very Good grade, 2019 – Faculty of Agronomic Sciences (UAC-Benin) | 2016-2019
- **BAC series C**, 2015-2016 – General Educational Complex of Application, Porto-Novo, Benin | 2009-2016

PROFESSIONAL EXPERIENCES

- **Since 2023:** Research assistant in pest management, GBioS (Genetics Horticulture and Seed Sciences), Abomey-Calavi, Benin

Active member of the AgroDigiLab project; Contribution to the writing of training content relating to pest management using precision agriculture tools; Trainer in the first certification course of the AgroDigiLab project in Precision Agriculture.

Reference person: Dr V. Nicodème Fassinou Hotègni, e-mail: nicodemef@gmail.com

- **June 2023 to January 2024:** Independent consultant, CIRAD, SafeVeg Project, Abomey-Calavi, Benin

Drawing up experimental protocols for collecting pests on market garden crops; Setting up and monitoring experimental plots; Drawing up data collection sheets and entering data; Preliminary sorting of pest samples; Analysing data and writing activity reports.

Reference person: Dr Djibril Aboubakar Souna, e-mail: djibril.aboubakar_souna@cirad.fr

- **October 2023:** Data collection officer, World Vegetable Center, Abomey-Calavi, Benin
Data collection as part of the baseline study for the Choose Groove and Thrive project (CGT-BMZ).

Reference person: Christelle Marie Komlan, e-mail: christelle.komlan@worldveg.org

- **July 2021 to May 2023:** Technical Assistant, World Vegetable Center, Abomey-Calavi, Benin

Development of experimental protocols; Installation and monitoring of agronomic trials; Development of survey questionnaires and integration into the KoboCollect data collection software; Survey to assess farmers' knowledge of pests and diseases; Data entry and statistical analysis of survey and agronomic trial data; Participation in the drafting of literature reviews and scientific articles; Translation of English-French documents.

Reference person: Herbaud Zohoungbogbo, e-mail: herbaud.zohoungbogbo@worldveg.org

- **February 2023:** Data collection officer, World Vegetable Center, Benin
Data collection for the final study of the NUTRIFOOD project as part of the evaluation of the impact of school gardens on children's perception of healthy eating and on their food consumption at school and at home.

Reference person: Christelle Marie Komlan e-mail: christelle.komlan@worldveg.org

- **August to October 2020:** Support staff, GBioS (Genetics Horticulture and Seed Sciences), Benin

Drafting of reports and survey questionnaires as part of the diagnosis and inventory of knowledge and experience of agro-ecological practices in market gardening and rice growing in southern Benin as part of the TAERA project, ENABEL, Benin.

Reference person: Dr V. Nicodème Fassinou Hotègni, e-mail: nicodemef@gmail.com

- **March to July 2020:** Trainee, Plant Improvement and Protection Phytotechnics Laboratory (LaPAPP)

Introduction to the use of plant pathology laboratory equipment; Introduction to plant pathogen detection and identification techniques; Participation in the various activities carried out (ELISA test, DNA extraction, PCR, isolation of fungi and bacteria, etc.).

Reference person: Prof Enoch G Achigan Dako, e-mail: eadako@gmail.com

MOST RECENT TRAININGS ATTENDED

- **18 August-20 September:** Drone training offered by the University of Rwanda and GIZ

Drone piloting (manual and automated flight); Flight mission planning (software-based); Drone assembly; Data acquisition with UAVs; Basics of photogrammetry and mapping (orthomosaics, 3D reconstruction); UAV safety checks; Drone regulations and legal compliance; Application

of drones in precision agriculture and environmental monitoring; Business model development and entrepreneurship in drone services; Team-based drone projects and collaborative assignments.

Certificate: Certificate of completion

- **23 June to 16 July 2025: eLwazi Open Data Science Platform (eLwazi ODSP) Research Data Management Course (Online)**

Understanding the full data lifecycle and designing data management plans; Best practices for data collection, organisation, and storage; Approaches for data cleaning and dealing with inconsistencies; Applying standards and ensuring FAIR data principles; Exploring the role of AI, ML, and DL in research data management.

Certificate: Certificate of completion and Letter of completion

- **17 August-22 August 2025: Deep Learning Indaba Rwanda 2025**

Participation in lectures and hands-on tutorials on machine learning and deep learning; Engagement in workshops on applied AI for health, agriculture, and climate; Networking with researchers, practitioners, and industry experts; Contribution as **Poster Judge**, evaluating and providing feedback on research presentations; Collaboration in group projects and discussions on AI ethics, fairness, and responsible use.

- **July 2020**: Off-soil production techniques | Introduction to off-soil production techniques in market gardening.

Certificate: Certificate of participation

SCIENTIFIC PRODUCTION

Zohoungbogbo, H. P., **Ganta, J. S.**, Oliva, R., Chan, Y.-L., Adandonon, A., Bokonon-Ganta, A. H., Ba, M. N., Achigan-Dako, E. G., & Barchenger, D. W. (2024). Farmers' Perception of Viral Diseases and Their Management in Pepper (*Capsicum* spp.) Production in Benin. *HortScience*, 59(1), 110-120.

Zohoungbogbo, H. P. F., **Ganta, J. S. O.**, Ambali, M., & Barchenger, D. (2024). Recent trends in pepper (*Capsicum* spp.) production and consumption in Sub-Saharan Africa. In *V All Africa Horticultural Congress-AAHC2024 1422* (pp. 89-98).

CONFERENCES AND TALKS

- **September 2025: 2nd African Conference on Machine Learning, Optimisation and Applications (MLOA 2025), Kigali, Rwanda**

Certificate: Certificate of participation

- **February 2024:** Introduction and training of young graduates in digital tools and techniques for the agricultural professions of tomorrow, AGRODIGILAB project, UAC-Benin

Title of edited and presented communication: **Crop Pests and Precision Agriculture**

- **February 2024:** V All Africa Horticultural Congress – AAHC2024, Marrakech (Morocco)

Title of edited communication: Recent trends in pepper (*Capsicum* spp.) production, consumption and market segmentation in Sub-Saharan Africa

- **November 2022:** First scientific symposium of the SERB (Entomological Society of the Republic of Benin), IITA-Benin

Title of edited and presented communication: Farmers' knowledge of viral diseases affecting pepper (*Capsicum* spp.) production and the effect of crop association in their management in Benin.

- **November 2022:** First scientific symposium of the SERB (Entomological Society of the Republic of Benin), IITA, Abomey-Calavi | Participation in various presentations on advances and ongoing research in agricultural entomology and medical entomology.

Certificate: Certificate of participation

AWARDS AND SCHOLARSHIPS

Since November 2024: Intra-Africa Mobility PATH Project for PhD studies in Precision Agriculture at the University of Rwanda

PROFESSIONAL MEMBERSHIP

Member of African Association of Precision Agriculture (AAPA)

SPECIFIC KNOWLEDGE AND SKILLS

- Very good skills in OfficeSuite tools using (Word, PowerPoint, Excel).
- Good level of proficiency in the use of the referencing software Mendeley and Zotero.
- Good level of proficiency in R statistical software using (multivariate analysis, graphing, mapping, etc.).
- Good level of proficiency in KoboToolbox data collection software using (questionnaire integration and data collection).
- Good level of proficiency of GIS & Remote Sensing Tools (Agisoft Metashape and ArcGIS)
- Good skills in the use of various professional cameras (acquired during training).
- Excellent skills in writing articles for natural referencing (SEO).

LANGUAGE

Language *	Speaking	Writing	Reading/Understanding
French	5	5	5
English	4	4	4
Fon**	5	2	2
Goun**	4	1	1

* Level: 5=very good; 4=good; 3=fairly good; 2=simple communication, basic knowledge; 1=some words. **Native language.

I certify that all the above information is true and correct.



GANTA Judicaël Sèwlan Oswald