

Curriculum Vitae

Personal Data

Title	Dr.
First name	Anicet
Name	Dassou
Current position	Lecturer, Assistant Professor
Current institution(s)/site(s), country	High National School of Applied Biosciences and Biotechnologies (ENSBBA) National University of Sciences, Technologies and Mathematics (UNSTIM) Dassa-Zoumè, Benin
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Qualifications and Career

Stages	Periods and Details
Degree programme	2004 - 2007. Bsc: Natural Sciences; Faculty of Sciences and Technologies; University of Abomey-Calavi, Benin. 2009 – 2011. Msc: Applied Entomology; Faculty of Sciences and Technologies; University of Abomey-Calavi, Benin.
Doctorate	2012 – 2014. PhD: Ecosystems and Agricultural Sciences; SupAgro, University of Montpellier; France. Supervisor: Dr. (HDR) Philippe Tixier
Stages of academic/professional career	In my institution, I participate in several project activities on crop protection. At the national level, I am a member of the Platform for Organic and Ecological Agriculture of Benin. 2016 - 2023: I am coordinating the academic activities of the Bachelor of Plant Production within my school. 2017 – 2018: I coordinated the project activities on the melliferous agroforestry plants management and honeybee communities and their relation to agricultural practices including the agrochemicals use. Project funded by Rufford Foundation. 2016 – 2023: I contribute to the realization of the activities of the AfricaYam project on the Improvement and Breeding of yam in Africa. Project funded by Bill Melinda Gates foundation. 2018 – 2023: I contribute to the realization of the activities of the Ecological Organic Agriculture (EOA) project in Benin. I represent my institution which is a

	<p>partner in the project. Funded by Swiss Corporation and Africa Union.</p> <p>2022 – 2024: I contribute to the realization of the activities of the NSF - IRES project funded by the US Federal Government through the National Science Fund (NSF). This project aims to study the demographic consequences of ecological interactions in the dry forests of West Africa, particularly in Benin. I represent my institution which is a partner in the project.</p> <p>2020 – 2022: I contribute to the realization of the activities of the FABA project in collaboration with CIRAD France on the identification of the training needs of banana and plantain farmers in West and Central Africa. Project funded by the European Union.</p> <p>2023 – 2027: I contribute to the realization of the activities of the ARES project in collaboration with UCL Belgium, FSA - UAC, CIRAD France on development of intensive agroecology within cropping systems based on banana and plantain for better management of biophysical constraints.</p> <p>2023 – 2025: Project Member, Development of a botanical biopesticide and an innovative push-pull pest management technology for sustainable agriculture in Benin (BIOPAD) (Project funded by UNSTIM University).</p>
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Engagement in the Research System

Reviewer activities

Since 2019 to date: regular solicitation for the evaluation of manuscripts in international journals such as:

- International Journal of Tropical Insect Science
- Agriculture and Food Security
- Basic and Applied Ecology
- Academic Journal of Agricultural Research
- International Journal of Apicultural Research
- Experimental Agriculture
- African Scientific
- Journal of Saudi Society of Agricultural Science
- Plant Genetic Resources
- Journal of Applied Biosciences

Academic self-administration and advisor positions

- **Since I took office at the ENSBBA**, I am always member of the deliberation committees for the examinations of different domains.

- Since January 2017, I am sitting on license defense juries of the ENSBBA, ex FAST-Dassa

- I was a member of the communication sub-committee of the organizations of the 1st and 2nd Scientific Days of the ENSBBA Dassa-Zoumé.

Teaching

I am teaching courses in zoology, animal ecology and applied entomology in Life and Earth Sciences classes. Zoology courses cover: i) vertebrate biology and nutrition, ii) ethological sciences, iii) general embryology. The ecology course covers the basics of ecology and the interactions between plants, animals and their environment. The Applied Entomology course covers the basics of entomology and pest management in cropping systems.

Supervision of Researchers in Early Career Phases

2016 - 2019: I supervised the research studies of 5 Bachelor students and 4 Master students.

- The research study of 3 Bachelor students focused on the abundance and diversity of ants in cropping systems and their implication in ecological pest control.
- The 4th Bachelor student and one master student worked on the melliferous agroforestry plants management and honeybee communities and their relation to agricultural practices including the agrochemicals use.
- The other Master students worked on varietal diversity and the performance of cropping systems including bananas, maize, corchorus.

2020 – 2022: I supervised the research studies of 6 Master students.

- The first student worked on developmental biology and management practices of FAW and farmer management practices.
- The 2nd student worked on modeling the effects of cultivated plant diversity on the banana weevil natural control by generalist predators in banana and plantain cropping systems.
- The 3rd student worked on the training needs of banana and plantain farmers.
- The 4th student worked on the modeling of crop associations on the abundance and damage of the fall armyworm.
- The 5th student worked on the infection of banana plants by the Banana Bunchy Top Virus (BBTV).
- The 6th student worked on the effects of *Chromolena odorata*-based compost on the tolerance of banana plants to banana wilt disease.

Scientific Results

Category A

1. **Dassou, A. G.**, Loko, Y. L. E., Toffa, J., Gbèmavo, C., Adjahossou, N., Tchakpa, C., & Brévault, T. (2023). Within-field crop diversity and landscape complexity decrease the abundance of fall armyworm larvae in maize cropping systems. *Biological Control*, 105260.
2. Azandémè-Hounmalon, G. Y., Logbo, J., **Dassou, A. G.**, Lokossi, L., Akpla, E., Fiaboe, K. K. M., & Tamo, M. (2023). Investigation of amaranth production constraints and pest infestation reduction by basil intercropping. *Journal of Agriculture and Food Research*, 100627.
3. Chabi, M., **Dassou, A. G.**, Adoukonou-Sagbadja, H., Thomas, J., & Omondi, A. B. (2023). Variation in Symptom Development and Infectivity of Banana Bunchy Top Disease among Four Cultivars of *Musa* sp. *Crops*, 3(2), 158-169.
4. Sudeeptha Yainna, Wee Tek Tay, Karine Durand, Estelle Fiteni, Frédérique Hilliou, Fabrice Legeai, Anne-Laure Clamens, Sylvie Gimenez, R. Asokan, C. M. Kalleshwaraswamy, Sharanabasappa S. Deshmukh, Robert L. Meagher Jr., Carlos A. Blanco, Pierre Silvie, Thierry Brévault, **Anicet Dassou**, Gael J. Kergoat, Thomas Walsh,

- Karl Gordon, Nicolas Nègre, Emmanuelle d'Alençon & Kiwoong Nam (2022). The evolutionary process of invasion in the fall armyworm (*Spodoptera frugiperda*). *Scientific Reports*, 12(1), 1-11.
5. Loko, Y. L. E., Gbemavo, C. D., Agre, P. A., **Dassou, A. G.**, Yelome, O. I., Idossou, R., ... & Dansi, A. A. (2022). White Guinea yam (*Dioscorea rotundata* Poir.) landraces trait profiling and setting benchmark for breeding programs in the Republic of Benin. *Plos one*, 17(8), e0273043.
 6. Laura Yêyinou Estelle Loko, Toffa Joelle, Bada Baptista, **Dassou Gbèblonoudo Anicet**, Zanzana Karimou, Gavoedo Dieudonné, Adikpeto Josky, Manuele Tamo (2022). Potential of *Metarhizium anisopliae* and *Beauveria bassiana* to control *Dinoderus porcellus* (Coleoptera: Bostrychidae) infesting yam chips, *Journal of Asia-Pacific Entomology*, 25 (11) 101 – 885.
 7. Carval, D., Resmond, R., **Dassou, A. G.**, Cotté, V., Achard, R., & Tixier, P. (2022). Influence of a cover crop on ants and dermapterans in banana plantations: consequences for the regulation of the banana weevil. *International Journal of Pest Management*, 1-10.
 8. Gbemavo, D. S. J. C., **Dassou, A.**, Gbemavo, M., & Ouinsavi, C. (2022). Occurrence and ecological habitat effect on *Vitellaria paradoxa* (CF Gaertn.) parasitism: implication for pest management and plant conservation. *Heliyon*, 8(9), e10492.
 9. **Dassou, A. G.**, Idohou, R., Azandémè-Hounmalon, G. Y., Sabi-Sabi, A., Houndété, J., Silvie, P., & Dansi, A. (2021). Fall armyworm, *Spodoptera frugiperda* (JE Smith) in maize cropping systems in Benin: abundance, damage, predatory ants and potential control. *International Journal of Tropical Insect Science*, 41(4), 2627-2636.
 10. Aguessy, S., Idossou, R., **Dassou, A. G.**, Estelle, L. Y. L., Yelome, O. I., Gbaguidi, A. A., & Agbangla, C. (2021). Ethnobotanical characterization of scarlet eggplant (*Solanum aethiopicum* L.) varieties cultivated in Benin (West Africa). *Journal of Agriculture and Food Research*, 5, 100173.
 11. Djogbenou, A., Azihou, A. F., **Dassou, A. G.**, Assogbadjo, A. E., Kassa, B., & Gaoue, O. G. (2021). Limited ant co-occurrence and defensive mutualism in *Acacia* plants in a West African savanna. *AoB Plants*, 13(4), plab036.
 12. Agre, P. A., **Dassou, A. G.**, Loko, L. E., Idossou, R., Dadonougbo, E., Gbaguidi, A., & Asfaw, A. (2021). Diversity of white Guinea yam (*Dioscorea rotundata* Poir.) cultivars from Benin as revealed by agro-morphological traits and SNP markers. *Plant Genetic Resources*, 19(5), 437-446.
 13. **Dassou, A. G.**, Ogouchoro, D., Vodouhe, F. G., Dassou, H. G., Dansi, A., & Tixier, P. (2020). Ethnoapicultural investigation to improve conservation status of threatened melliferous agroforestry species with high medicinal and food values in Benin. *Agroforestry Systems*, 94(2), 539-553.
 14. **Dassou G. Anicet**, Désiré Gnanvossou, Rachid Hanna, Aimé Bokonon-Ganta (2018). Abiotic factors drive the mango infestation by *Sternochetus mangiferae* and its population dynamics on mango cultivars. *International Journal of Tropical insect science*. pp. 232-242.
 15. Gbèdolo, A. E., **Dassou, A. G.**, Dassou, H. G., Aminon, I. D., Omondi, B. A., & Dansi, A. (2018). Morphotype diversity of *Corchorus olitorius* and influence of agricultural practices on its potential major pest insects. *Scientia Horticulturae*, 239, 234-241.
 16. Chabi, M. C., **Dassou, A. G.**, Dossou-Aminon, I., Ogouchoro, D., Aman, B. O., & Dansi, A. (2018). Banana and plantain production systems in Benin: ethnobotanical investigation, varietal diversity, pests, and implications for better production. *Journal of ethnobiology and ethnomedicine*, 14, 1-18.

17. **Dassou G. Anicet** and Philippe Tixier (2016). Response of pest control by generalist predators at the field-scale to plant diversity: a meta-analysis. *Ecology and Evolution*, 6 (4): 1143-1153.
18. **Dassou G. Anicet**, Sylvain Dépigny, Elsa Canard, Fabrice Vinatier, Philippe Tixier (2016). Contrasting effect of plant diversity across arthropods trophic groups and spatial extends: case of multi-specific plantain based agroecosystems. *Basic and Applied Ecology*. 17(1), 11-20.