DR. CAROLINE OYINDAMOLA FILANI CV

Short profile:

Caroline Oyindamola Filani (Ph.D.) is a motivating, talented, and experienced Entomologist and a lecturer in the Department of Crop Protection, Federal University of Agriculture, Abeokuta, with over ten years' experience in academic, research, leadership, mentorship, and administrative skills. As an innovative thinker and inspiring Entomologist, she has developed and conducted experimental studies with insect pests of cereal, fruit and vegetable crops in both natural and controlled environments. She teaches undergraduate and postgraduate entomology/Crop protection courses and supervises entomology projects. Dr. Filani research interests include insect pest management, insect systematics, insect ecology, and biotechnology. She has published in peer-reviewed national and international journals on vegetable crops (watermelon, golden melon, tomato, okra, cucumber) and cereals (maize and rice), as well as on managing fruit and vegetable crop insect pests using integrated pest management. She has supervised B. Agric. and co-supervised M. Agric. and Ph. D. research works. Aside from her academic pursuits, she also counsels and mentors graduate youth.

Education:

(i) Educational Institutions Attended (with Dates)

a)	Federal University of Agriculture, Abeokuta, Ogun State	2012 – 2020
b)	Federal University of Agriculture, Abeokuta, Ogun State	2007 – 2010
c)	Federal University of Agriculture, Abeokuta, Ogun State	1999 – 2005
d)	African Church Grammar School, Abeokuta, Ogun State	1992 – 1998
e)	Bishop Akinyele Independence Basic School, Oke-Ado, Ibadan, Oyo State	1986 - 1992

(ii) Academic and Professional Qualifications (with dates)

a)	Doctor of Philosophy (Ph. D.) (Entomology)	2020
b)	Master of Agriculture (M. Agric.) Crop Protection (Entomology)	2010
c)	Bachelor of Agriculture (B. Agric.)	2005
d)	Senior Secondary School Certificate (SSCE)	1998
e)	Primary School Leaving Certificate	1992

2. Research Area (s)

Completed:

i) Management of Golden Melon Insect Pests with Biopesticides.
ii) Management of Cucumber Insect Pests with Biopesticides.
iii) Integrated Management of Okra Insect Pests.
iv) Genetic Diversity of the Tomato Fruit Worm, *Helicoverpa armigera* Hubner (Lepidoptera: Noctuidae) in Nigeria.

Ongoing:

i) Comparative Assessment of Crickets and Termites' Nutrient Contents and Impact of Preservation Methods on their Microbiological Safety.
ii) Evaluation of Green-Synthesized Silver-Neem Nanopesticide for the Management of Tomato Insect Pests.
iii) Evaluation of Fonio Lines for Resistance to Major Insect Pests.
iv) Evaluation of Lowland Rice Accessions for Resistance to Major Insect Pests.

3. Awards received

a) Innovators of Tomorrow Award by Science and Technology Education Post-Basic (STEP-B) Project, Federal Ministry of Education, Abuja, Nigeria 2010
b) Best Graduating Student, Department of Crop Protection, Federal University of Agriculture, Abeokuta 2005

4. **University Appointments**

Member, Anti-corruption and Transparency Monitoring Unit (ACTU), FUNAAB Chapter - 2025 till date

5. Membership of Academic and Professional Bodies:

i). Entomological Society of Nigeria.
ii) Nigerian Society for Plant Protection
iii) Horticultural Society of Nigeria
iv) Organic Agriculture Practitioners in Tertiary Institutions in Nigeria
v) Biotechnology Society of Nigeria.

6. Selected Relevant Conferences Attended

a) The 2nd Biennial Conference of College of Plant Science and Crop Production, held at International Scholar Centre, Federal University of Agriculture, Abeokuta, Ogun State, Nigeria, July 20 - 23, 2025.

Paper presented: Efficacy of Green-Synthesized Silver-Neem Nanopesticides on Insect Pests, Growth, Yield, and Nutritional Quality of Okra (*Abelmoschus esculentus*).

b) The 24th Congress of the Entomological Society of Southern Africa (ESSA) held at the University of the Free State, Bloemfontein, South Africa., July 8 - 12, 2025 in Bloemfontein, South Africa.
Paper presented: Optimizing Silver-Neem Nanopesticide Application for Sustainable Pest Management and Enhanced Tomato (*Solanum lycopersicum* L.) Yields.

c) The 1st Annual Conference of the College of Plant Science and Crop Production held at International Scholar Centre, Federal University of Agriculture, Abeokuta, Ogun State, Nigeria, July 30 -August 1, 2023.
Paper presented: Efficacy of Commercial *Beauveria bassiana* for Controlling Field Insect Pests of Golden Melon (*Cucumis melo*) in Abeokuta, Southwestern Nigeria.

d) The 52nd Annual Conference of the Entomological Society of Nigeria held at Olabisi Onabanjo University, (OOU), Ago-Iwoye, Ogun State, Nigeria, October 3- 6, 2023.
Paper presented: The Impact of Solvent Media on the Effectiveness of Selected Plant Materials against Major Insect Pests of Kenaf (*Hibiscus cannabinus*).

e) The 47th Annual Conference of the Nigeria Society for Plant Protection (Abeokuta 2022) held at Federal University of Agriculture Abeokuta, (FUNAAB), Ogun State, Nigeria, March 13 - 17, 2022.
Papers presented: Evaluation of Entomopathogenic Fungi (*Beauveria bassiana*) for the control of Insect Pests of Cucumber (*Cucumis sativus* L.).

21. Selected Publications

(i) Journal Articles in Print

1. Omole B. O., **Filani C. O.,** Pitan O. R., and Bodunde J. G. (2026). Assessing Watermelon Yield Loss Due to Insect Pest Infestation using Linear Regression Models. *International Journal of Tropical Insect Science* 46 (3).
2. Makinde, E. A., Odeyemi, O, M., **Filani, C. O**., Makinde, A. I., Akindoyin, G. E. (2026). Poultry Manure Rate Affects Growth, Yield and Pest Infestation of Cucumber (*Cucumis sativus* L.). *Nigerian Journal of Soil Science* 35(1) 28-45. Published by Soil Science Society of Nigeria.
3. Omole, B. O., Pitan O. R., **Filani C.O.** and Bodunde J.G. (2026). Relative and Impact Of Insect Pests on Watermelon Fruit Yield in a Rainforest Environment. *Acta Agriculturae Slovenica* 122.

   Indexed in Scopus
4. Soluade,G. M., **Filani**, C.O., Adeoti, A. A., Pitan, O. R., Osipitan, A. A., Akerele, D. (2026). Evaluation of Ready-Mix Lambda-Cyhalothrin + Chlorantraniliprole Application On Insect Pest Infestation and Yield of Okra (*Abelmoschus esculentus* L. Moench). *Acta Phytopathologica et Entomologica Hungarica*.

   Indexed in Scopus and SCImago
5. Adeyinka A. Oladigbolu, Olufunke A. Oke, **Caroline O. Filani**, Abidemi A. Alao (2025). Bio-efficacy of Two Plant-Based Insecticides in the Control of Fall Armyworm *Spodoptera Frugiperda* (J.E. Smith) (Lepidoptera: Noctuidae) on Sweet Maize (*Zea mays* convar. Saccharata). *Iconic Research and Engineering Journals* 9(6) | ISSN: 2456-8880 DOI: https://doi.org/10.64388/IREV9I6-1712824.
6. Akindoyin, G. E., Makinde E. A., **Filani, C. O**., Odeyemi, O. M., and Makinde, A. I. (2025). Growth, Yield and Insect Infestation Management of Cucumber (*Cucumis Sativus* L.) in Respect to Botanical Type Application. *Journal of Organic Agriculture and Environment* 12(2). Published by Journal of Organic Agriculture Practitioners in Tertiary Institutions in Nigeria
7. **Filani, C. O**., Oguniyi, B. A., and Pitan, O. R. (2025). Efficacy and Economic Assessment of Commercial *Beauvaria bassiana* (Bals.-Criv.) Vuill. in Managing Cucumber (*Cucumis sativus*

L.) Insect Pests in a Derived Savanna Agroecosystem. *Acta Agriculturae Slovenica* 121/3: 1–9. Indexed in Scopus

8. **Filani, C. O**., and Pitan, O. R. (2025). Residue Dynamics of Common Insecticides in Tomato Fruits Under Nigerian Field Conditions. *Acta Phytopathologica et Entomologica Hungarica* DOI: 10.1556/038.2025.00240.

   Indexed in Scopus and SCImago

9. **Filani, C. O**., and Pitan, O. R., (2025), Parasitisation of the Spiralling Whitefly, *Aleurodicus dispersus* Russell (Homoptera: Aleyrodidae), by *Encarsia* spp. (Hymenoptera: Aphelinidae) Concerning the Host Plant and Weather Factors. *International Journal of Tropical Insect Science* https://doi.org/10.1007/s42690-025-01709-y.

   Indexed in Scopus

10. Adeoti, A. O., **Filani, C. O**., Pitan, O. R. and Adesanya, A. O. (2024): Effect of Spatial Arrangements of Grain Amaranth trap Crop on the Densities of *Aulacophora foveicollis* and *Epilachna chrysomelina* Cucumber (*Cucumis sativus*). *International Journal of Pest Management*, Published by Taylor and Francis Limited.

    Indexed in SCImago.

11. Lawal, O. A., Ayangbemi, B. T., **Filani, C. O**., Adeoti, A. O., Pitan, O. R., Osipitan, A. A., Makinde, E. A., Adeoye, O. T. and Omole, B. O. (2025): Influence of Variety and NPK Fertilization on Insect Pest Infestation on Cucumber (*Cucumis sativus* L.). ***Journal of Entomology***. 22 (1); 1-8. Published by Asian Network for Scientific Information. DOI: 10.3923/je.2025.1.8.
12. Shodunke, O. K., Ayangbemi, B. T., **Filani, C. O.**, Pitan, O. O. R., Osipitan, A. A. and Ojo, D. K. (2024): Field Assessment of Relative Susceptibility of Forty Cowpea (*Vigna unguiculata* L. Walp.). Accessions to the Pod-Sucking Bugs. *Nigerian Journal of Plant Protection*. 38(1): 68-81. Published by the Nigerian Society for Plant Protection. Available online at https://doi.org/10.71464/b873ag68.

13. Akintade, C. G., Ogunsanya, O. M., **Filani, C. O**., Kehinde, I. A., Afolabi, C. G. and Surajudeen, A. A. (2024): Plant Spacing Impact on Anthracnose and Downy Mildew. Disease Development in Cucumber (*Cucumis sativus* L.) Production. *Nigerian Journal of Plant Protection*. 38 (1); 21- 28, Published by the Nigerian Society for Plant Protection. Available online at https://doi.Org/10.71464/Xxf6hx03.

14. **Filani, C. O**., Adeoti, A. O., Balogun, J., Tanigbola, M. T. and Jimba, M. A. (2024): Efficacy of Entomopathogenic Fungi *Beauveria bassiana* as Biological Control Agent of Insect Pests of Okra (*Abelmoschus esculentus* (L.) (Moench). ***Journal of Agricultural Science and Environment (ASSET).*** *Series A* 24(1). Published by Federal University of Agriculture, Abeokuta, Nigeria. Available online at https://journal.funaab.edu.ng/index.php/JAgSE/article/view/2379.

15. Oguniyi, B. A., **Filani, C. O**., Pitan, O. O. R. and Kehinde, I. A. (2024): Impact of Commercial *Beauveria bassiana* Application on Cucumber (*Cucumis sativus* L.) Insect Pests, Pollinator Densities and Some Growth and Fruit Parameters. ***Nigerian Journal of Entomology*****.** 40 (1); 167-178, Published by Entomological Society of Nigeria.

DOI:10.36108/NJE/4202/04.0151.

16. Adeoti, A. O., **Filani, C. O.**, Pitan, O. O. R., Osipitan, A. A., Makinde, E. A and Joda, A. O. (2024): Insecticidal Activities of Ten Plant Extracts for Control of Cucumber (*Cucumis sativus* L.) Insect Pests in a Rainforest Transition Zone of Nigeria. ***Nigerian Journal of Entomology*****.** 40 (1); 147-155, Published by Entomological Society of Nigeria. DOI:10.36108/NJE/4202/04.0131.

17. **Filani, C. O.,** Adeoti, A. O., Pitan, O. O. R., Sholanke, M. O. and Yekini, B. A. (2024): Assessment of Major Insect Pests of Golden Melon (*Cucumis melo* L.) and Control with Commercial *Beauveria bassiana* in Abeokuta, Southwestern, Nigeria. ***Nigerian Journal of Entomology*****.** 40 (2); 47- 61, Published by Entomological Society of Nigeria. DOI:10.36108/NJE/4202/04.0240.

18. Adeoti, A. O., **Filani, C. O.**, Pitan, O. O. R. (2024): Optimising Crop Protection and Yield: The Impact of Poultry Manure and NPK Fertiliser on Cucumber (*Cucumis Sstivus* L.) Insect Pests Management. ***Tropical Agriculture*** (Trinidad). 101(1);19-28, Published by Faculty of Food and Agriculture (Formerly Imperial College of Tropical Agriculture). The University of the West Indies. Indexed in Scopus.

f*19**. Yekini, B. A., Afolabi, C. G., Ganiyu, S. A., **Filani, C. O**. and Oyeleye, A. D. (2023): Effect of Sand Paper (*Fiscus exasperata*) and Sodom Apple (*Calotropis procera*) Leaf Extracts on Fungal Organisms Associated with Disease of Mustard in Ishiagu, Ebonyi State. ***Nigerian Journal of Plant Protection**.** 37 (2); 31-40, Published by the Nigerian Society for Plant Protection.
Available online at https://journal.nsppnigeria.org/index.php/1/article/view/126.

20. Adeoti, A. O., Pitan, O. O. R., **Filani, C. O**., Osipitan, A. A. and Makinde, E. A. (2023): Effect of Plant Spacing on the Density of Insect Pests of Two Cucumber (*Cucumis sativus* L.) Varieties. ***Nigerian Journal of Horticultural*** **Science.** 27(1); 106-115, Published by Horticultural Society of Nigeria. Available online at ISSN 1118-2733; Vol. 27 (1) (2023).

21. **Filani, C. O.,** Pitan, O. O. R. and Adeoti, A. O. (2023): Efficacy and Profitability of Some Selected Organophosphates and Pyrethroids for Control of Tomato Fruitborer, *Helicoverpa armigera* Hübner (Lepidoptera: Noctuidae) in Southwestern Nigeria. *Nigerian Journal of Ecology*. 19(1); 62-72, Published by the Ecological Society of Nigeria. Available online at https://nigerianjournalofecology.org

22. **Filani, C. O.,** Pitan, O. O. R., Aiyelaagbe, I. O. O., and Popoola, A. A. R. (2023): Assessment of Optimal Rate and Frequency of Cypermethrin for the Control of Tomato Fruit Borer, *Helicoverpa armigera* Hübner) in Abeokuta South-western Nigeria. ***Nigerian Journal of Plant Protection*****.** 37 (1);18 -29. Published by the Nigerian Society for Plant Protection.

23. Adebowale, T. J., Osipitan, A. A., Pitan, O. O. R., Lawal, O. I., Joda, A. O., **Filani, C. O**. and Ewedairo, B. I. (2019): Resistance of Some Hybrid Maize (*Zea Mays* L.) to Damage by Maize

Weevil, *Sitophilus zeamais* (Motsch.) (Coleoptera: Curculionidae) and Larger Grain Borer, *Prostephanus truncatus* (Horn) (Coleoptera: Bostrichidae). ***Nigerian Journal of Entomology*****.** 35: 45-59. Published by Entomological Society of Nigeria. DOI:10.36108/NJE/9102/53.01.50.

24. Owolabi, A.V., **Filani, C. O**., Buari, R. A., Osipitan, A. A., Makinde, E. A., and Pitan, O. O. R. (2018): Relative Susceptibility of Some Local Tomato (*Solanum Lycopersicum* L.) Genotypes to the Fruitborer (*Helicoverpa armigera*) (Lepidoptera: Noctuidae) and Its Relationship with Plant Physiomorphic Characters. ***Nigerian Journal of Ecology*****.** 17(2); 115-125, Published by the Ecological Society of Nigeria. Available online at https://nigerianjournalofecology.org

25. Buari, R. A., **Filani, C. O.**, Owolabi, A. V., Osipitan, A. A., Atayese, M. O., and Pitan, O. O. R. (2018): Variations in the Susceptibility of Some Field-Grown Hybrid and Exotic Tomato, *Solanum lycopersicon* Mill Genotypes to Tomato Fruit Borer *Helicoverpa armigera* Hübner (Lepidoptera: Noctuidae) Infestation in a Rainfall Transition Environment. ***Nigerian Journal of Horticultural*** **Science.** 23; 1-12. Published by Horticultural Society of Nigeria. Available online ISSN 1118-2733 Vol. 23 (2018).

*f*26. Pitan, O. O. R. and **Filani, C. O.** (2014): Effect of Intercropping Cucumber, (*Cucumis sativus* L.), (Cucurbitaceae) at Different Times with Maize (*Zea mays*) (Poaceae) on the Densities of Cucumber Insect Pests. ***International Journal of Tropical Insect Science*** 34(4); 269 - 276. Published by Cambridge Published by United Kingdom. DOI:10.1017/S1742758414000435. Indexed in Scopus.

27. Pitan, O. O. R., Jinadu, G. M., Shodunke, O. K., **Filani, C. O**. and Adewole, M. M. (2013): Influence of Varietal Differences and Pyrethroid Insecticides on the Population Densities of Cucumber Insect Pests, *Dacus* spp., and *Bactrocera invadens* (Diptera: Tephritidae) on Fruit Damage. ***Nigerian Journal of Horticultural*** **Science** 18: 69-77. Published by Horticultural Society of Nigeria.

*f*28. Pitan, O. O. R. and **Filani, C. O.** (2013): Assessment of Insect Spectrum and Insect-Induced Damage at Different Growth Stages of Cucumber (*Cucumis sativus* L.) in a Rainforest Transition Zone of Nigeria. ***Annals of Tropical Research*****.** 35(2); 60-68**.** Published by Visayas State University, Leyte, Philippines. http://www.annalsoftropicalresearch.com/atr/resources/pd%20file/vol35%20No.2/4.pdf Indexed in Scopus.

7. Patent: