

CURRICULUM VITAE

- I. (a) Name: Olajumoke Yemisi Alabi (nee Ekundayo). Ph.D.
(c) Department: Crop Protection and Environmental Biology
(d) Faculty: Agriculture
- II. (a) First Academic Appointment: Lecturer II
(b) Present Post: Senior Lecturer
- III. University Education (with dates):
(a) University of Ibadan, Ibadan, Nigeria 1988 – 1992
(b) University of Ibadan, Ibadan, Nigeria 1994 - 1995
(c) University of Ibadan, Ibadan, Nigeria 1996 – 2006
- IV Academic Qualifications (with dates and granting bodies):
(a) Bachelor of Science (Zoology) University of Ibadan
(b) Master of Science (Entomology) University of Ibadan
(c) Ph.D. in Agriculture (Crop Protection) University of Ibadan
- V. Professional Qualifications and Diplomas (with dates):
(i.) Certificate in Statistical Computing and Data Analysis for IITA Graduate Research Fellows at International Institute of Tropical Agriculture 1998
(ii.) Certificate in Mentoring Orientation Workshop in Mombasa, Kenya by the CGIAR Gender and Diversity Programme / AWARD 2008
(iii.) Certificate in AWARD Women's Leadership and Management Course Nairobi Kenya, by the Training Resources Group Inc. / CGIAR 2009
(iv.) Certificate in Proposal Writing and Policy Development in Agricultural Research Course in Livingstone, Zambia by the International Foundation for Science (IFS), University of Zambia and AWARD 2009
(v.) Certificate in Texas Department of Agriculture / HEB Food Safety 6 hour Training Course, AgriLife Extension, Texas A & M University, College Station, USA 2010
(vi.) Certificate in Enhancing Curriculum Development, Teaching and Research Skills in Integrated Pest Management, GPS AND Phyto-Sanitary Practices by the Norman Borlaug Institute of International Agriculture, The Texas A & M University System 2010
(vii.) Web 2.0 Learning Opportunity organized by Bowen University, Iwo, Osun State and Technical Center for Agricultural and Rural 2014

Cooperation ACP-EU Wageningen, The Netherlands

- (viii.) Certificate in Project Finance Essentials (Financial Capacity Building Training) by the MANGO (Management Accounting for Non-governmental Organizations) Training and the Bill and Melinda Gates Foundation, Kigali Rwanda 2015
- (ix.) Certificate in CARTA Capacity Development Joint Training Workshop for University Faculty, Administrators and Staff. Sponsored by the John D. & Catherine T. MacArthur Foundation 2016
- (x.) Certificate of Proficiency in the Partnerships for Enhanced and Blended Learning - West Africa (PEBL-WA) Training in Online Facilitation and the Use of the Learning Management Systems and Passed with Distinction (Grade A) from 7 February to 16 September, 2022.

VI. Scholarships, Fellowships and Prizes (with dates) in respect of Undergraduate and Postgraduate work only)

- (i.) Zard Scholarship Award for the best outstanding Ph.D. student in the Department of Crop Protection and Environmental Biology, University of Ibadan. 1994/95

VII Honours, Distinctions and Membership of Learned Societies:

(a.) Honours:

- (i.) Visiting Fellow for two months on the Programme for Emerging Agricultural Research Leaders (PEARLs) at the Department of Entomology, Wageningen University, The Netherlands Host: prof. dr. Marcel Dicke, Professor and Chair 2015
- (ii.) Resource person, at the Writing Grant Winning Proposals by the Faculty of Agriculture and Forestry, University of Ibadan. Topic of presentation: Sources of Grant and Concept note development 2015
- (iii.) Fellow, Courseware Development for Female Academics, University of Ibadan, World Bank Assisted STEP-B project 2012 - 2013
- (iv.) USDA Alumnus: Faculty Exchange Programme at United States Department of Agriculture Washington (USDA) and Texas A&M University (TAMU) as visiting professor 2010
- (v.) Award Fellow of the African Women in Agricultural Research and Development: Round One fellowships by the Gender Diversity Program, Kenya and funded by the Bill and Melinda Gates Foundation and USAID 2008 - 2010
- (vi.) Recipient of the MacArthur Foundation Grant on overseas training grant under the Staff training and Research Capacity Building Programme; amount of grant 2010

(b.) Membership of Learned Societies:

- | | | |
|--------|---|--------------|
| (i.) | Member, Entomological Society of Nigeria (National). | 1995 to date |
| (ii.) | Member, International Association for the Plant Protection Sciences (International). | 2009 to date |
| (iii.) | Member, Nigerian Society of Plant Protection (National). | 2016 to date |
| (iv.) | Member, Biochar Initiative of Nigeria. | 2016 to date |
| (v.) | Member, Association of Organic Agriculture Practitioners of Nigeria (NOAN). | 2016 to date |
| (vi.) | Focal person for UI, Nigerian Women in Agricultural Research for Development (NiWARD) (National). | 2017 |

VIII. Details of Teaching/Work Experience:

- | | | |
|--------|---|--------------|
| (i.) | Senior Lecturer: Department of Crop Protection and Environmental Biology, University of Ibadan. | 2017 to date |
| (ii.) | Lecturer I: Department of Crop Protection and Environmental Biology, University of Ibadan. | 2012 to 2017 |
| (iii.) | Lecturer II: Department of Crop Protection and Environmental Biology, University of Ibadan. | 2009 - 2012 |
| (iv.) | Senior Research Officer: Forestry Research Institute of Nigeria, Jericho, Ibadan. | 2007 - 2009 |

Courses jointly taught:

Undergraduate courses

Course code	Course Title	Units	Sessions
CPE 316	Biological Techniques	3	2010
GES 105	Agriculture, Renewable Natural Resources, Animal Husbandry and Health	2	2010 to date
CPE 211	Introduction to Plant Protection	2	2010 to 2019
CPE 312	Insect Biology	2	2010 to date
CPE 320	Introduction to Forest Entomology and Pathology	2	2010 - 2017
CPE 322	Quantitative Biology	2	2010 - 2017
CPE 311	Principles of Crop Protection	3	2012 to date
CPE 323	Insect Ecology and Behaviour	2	2021 to 2024
CPE 515	Economic Entomology		2024 till date
CPE 521	Fundamentals of Beekeeping		2024 till date
CPE 599	Special Projects in Agricultural Biology		2009 to date

Postgraduate courses

Course code	Course Title	Units	Sessions
CPE 702	Methodology and Instrumentation	3	2010 - 2017
CPE 703	Principles and Methods of Pest Management	3	2011
CPE 711	Insect Physiology and Behaviour	3	2010 - 2017

Distance Learning Centre

Course code	Course Title	Units	Sessions
CPE 211	Introduction to Plant Protection	2	2012 - 2015
CPE 311	Principles of Crop Protection	3	2012 - 2017
CPE 320	Introduction to Forest Entomology and Pathology	2	2010 - 2017
GES 105	Agriculture, Renewable Natural Resources, Animal Husbandry and Health	3	2014 to date

Students' Project supervision:

	Completed	In progress
BSc. Projects	10	-
MSc. Projects	20	1
Ph.D. Thesis	2	4

Administrative responsibilities:

- (a) Postgraduate Coordinator in the Department of Crop Protection and Environmental Biology, University of Ibadan from 2012 to 2018.
- (b) Member of the Committee on Unibadan Beekeeping Resources Management Project. (2012 to date)
- (c) Staff Adviser, International Association of Students in Agriculture and Related Science, Faculty of Agriculture from 2012 to date.
- (d) Faculty Representative on the Board of Education from 2011 – 2017.
- (e) CenSO committee member in the Department of Crop Protection and Environmental Biology from 2014 to date.
- (f) Focal Person for the University of Ibadan on the Nigerian Women in Agricultural Research and Development (NIWARD) 2017.
- (g) Assistant Project Coordinator I for the Partnerships for Enhanced and Blended Learning - West Africa (PEBL-WA) Project from February 2022 to date.
- (h) GES 105: Agriculture, Renewable Natural Resources, Animal Husbandry and Health

Course Coordinator from 2020 to 2024.

- (i) 300 Level Adviser, Department of Crop Protection and Environmental Biology, University of Ibadan from 2018 to date.
- (j) Chairperson, Pest control committee, Department of Crop Protection and Environmental Biology, University of Ibadan from 2022 to date.
- (k) Chief of Entomology Unit, Department of Crop Protection and Environmental Biology, University of Ibadan from 2022 to date.

Community Service:

- (i) Resource person, at the Grant Writing Workshop organised by Research Management Office, University of Ibadan on Submitting a Successful PEARL Application. **Topic of oral presentation: Writing a Successful Program for Emerging Agricultural Research Leaders (PEARLs) Application.** (18 June, 2014).
- (ii.) Resource person, at the Writing Grant Winning Proposals by the Faculty of Agriculture and Forestry, University of Ibadan. **Topic of oral presentation: Sources of Grant and Concept note development** (12 – 13 May, 2015).
- (iii.) Resource person, at the Nutri-garden to fork project (Catching them Young – ages 7 to 11 years) an initiative of Dr Isi Ejoh, Department of Human Nutrition, University of Ibadan. **Topic of oral presentation: Welcome to the Wonderful World of Insects** on 25 August, 2016).
- (iv.) Resource person, at the Seed Research Methodology, Data Analysis and Reporting. **Topic of oral presentation: Management of Insect Pests Infestation for Quality Seeds and Seedlings.** The capacity building workshop was organised by the National Agricultural Seed Council (NASC) in collaboration with the Department of Crop Protection and Environmental Biology, Faculty of Agriculture and Forestry, University of Ibadan on 13 – 17 February, 2017.
- (v.) Resource person at the Induction programme for the International Association of Students in Agriculture and Related Science. **Topic of oral presentation: Agriculture: The Way Forward** (31 March, 2017).
- (vi.) Resource person at the Farmers' Outreach organized by the Ekhagastiftelsen, a collaborative project between Swedish University of Agricultural Sciences, Sweden and University of Ibadan, Nigeria, held at the Department of Crop Protection and Environmental Biology, UI. **Topic of oral presentation: Race Against the Invader: Our Contributions** (25 May 2023).
- (vii.) ACUREC Research Protocol Reviewers Conference to review protocols submitted to the committee for ethical clearance at the Dean's conference room, Faculty of Veterinary Medicine, University of Ibadan on the 26th March 2024.
- (viii.) Resource person at the Okra Emerging Infestation: Awareness and Perception Assessment organised by the Crop Trust sponsored Seed for Resilience (S4R) Project and National Horticultural Research Institute, Ibadan. The programme was held at the NIHORT Seminar Room, Headquarters, Ibadan on 19 July 2024.

IX Research

(a) Completed:

3. Co-Investigator on Evaluation of Avaunt® 150 EC for controlling major cowpea insect pests in three agroecological zones of Nigeria. Dupont International, USA funded this project.
4. Screening for resistance to Cowpea Aphid (*Aphis craccivora* Koch) in wild and cultivated cowpea (*Vigna unguiculata* L.) Walp. Accessions. The AGRA-UI TL II project funded this project.
5. Evaluation of Maize Inbred lines for Resistance to Stemborer *Sesamia calamistis* Hampson (Lepidoptera: Noctuidae). The SARD-SC funded this project through a grant provided by the African Development Bank (AfDB) to IITA.
6. Sustainable Cowpea production for rural smallholder farmers in West Africa through Integrated Pest Management approach' Principal Investigator: Program for Emerging Agricultural Leaders (PEARLs) Award. This project commenced in October 2015 and is funded by the Bill and Melinda Gates Foundation, Seattle, USA, in Partnership with Wageningen University, the Netherlands and the International Institute of Tropical Agriculture, Ibadan (2022).
7. Evaluation of Spinetoram and Methoxyfenoxide for controlling Fall armyworm on Maize in multi-locational trials in Nigeria. Corteva International, USA, funded this project. The project was executed from 2020 to 2022.

(b) In progress:

1. **URBANE Project: One-Health Approaches to Support Agroecological Transformation of Peri-urban Farming.** This is an EU-funded project comprising 28 organizations forming a consortium of which UI is a partner. I am a project team member under the leadership of the PI for the University of Ibadan, Nigeria group. There are ten work packages, and I am actively involved in most of them. Among the activities to accomplish on the project include; Preparation: Pilots detailed definition and components' specification requirements; Understanding, studying links between farming practices, animal, human & ecosystem health; Synbiotics for sustainable animal & plant farming; Technology upscaling, Novel solutions for supporting URBANE; Agroecological transformation Crops and livestock farming; Case studies setup and Implementation, and others. The project's lifespan is from 2022 – 2026.
2. **TETFUND 2023 Project: Evaluating host plant volatiles-based 'attract and kill' strategy as Alternative to insecticides for control of Cowpea Flower Thrips.** This is a Federal of Nigeria-funded project of which I am the Principal Investigator. This initiative in Nigeria will promote sustainable cowpea production using attract-and-kill Traps. Our team is developing these traps using local and imported materials. We will provide training sessions for farmers to enhance cowpea yields while minimizing negative impacts on people and the environment. Using monitored insecticide applications with attractive kill traps can boost cowpea yields for sub-Saharan African farmers. This eco-friendly, cost-effective method creates local jobs and enhances productivity, significantly benefiting rural communities.
3. **COPAFEU Project: Co-producing knowledge on Sustainable Growth through Service Learning Pedagogy between African and European Higher Education.** The project started in 2024, and the objectives are to: Improve skills of HEI staff members in implementing an enhanced Service-Learning (E-SL) method, including the production of

digital open-access teaching material. Improve the practical working skills of HEI students through enhanced Service- Learning (E-SL) to increase their employability in the local and global labour market. Improve the skills of HEI students in producing digital cases and open educational resources (OER) as part of their work in E-SL projects. Enhance inter-African HEI collaboration capacity through shared E-SL projects and through dissemination and uptake of E-SL open access teaching material into other courses/programs. Create shared value and enhance the knowledge on new opportunities for sustainable growth of local E-SL beneficiaries (such as private firms, innovation hubs, entrepreneurs, NGOs and other non-academic actors in the local labour market) and enhance HEI and community relations through E-SL projects.

I am a project team member involved in teaching learners how to make home-based biopesticides to manage insect pests on crops.

(c) Project, Dissertation and Thesis

- (i.) **Ekundayo, O. Y.** (1992). Attraction of the Grasshopper *Zonocerus variegatus* (L.) to exposed and concealed lures from selected plant species. B. Sc. Project submitted to the Department of Zoology, University of Ibadan. 67 pp.
- (ii.) **Ekundayo, O. Y.** (1995). Responses of the Pod-sucking Bug, *Clavigralla tomentosicollis* (Stål.) (Hemiptera: Coreidae) to pod extracts of *Vigna unguiculata* Walp. M. Sc. Project submitted to the Department of Crop Protection and Environmental Biology, University of Ibadan. 34pp.
- (iii.) **Alabi, O. Y.** (2006). Mechanisms and Bases of Resistance of Cowpea (*Vigna unguiculata* (L.) Walp.) Cultivars to the Flower Bud Thrips (*Megalurothrips sjostedti* Trybom) (Thysanoptera: Thripidae). Ph.D. Thesis submitted to the Department of Crop Protection and Environmental Biology, University of Ibadan. 157 pp.

X Publications

(a) Books already published: Nil

(b) Chapters in Books already published:

1. **Alabi, O.Y.**, Aduramigba-Modupe, A.O. and Togun, A.O. (2020). Organic Agriculture: Pest Management, Potentials, Constraints and Challenges. In Olabiyi, T. I. (Ed.) Organic Farming In Nigeria. Ogbomoso: LAUTECH Press. 471 – 484pp. ISBN 978-978-809-310-7.

(c) Articles that have already appeared in Refereed Conference Proceedings:

2. Akinyemi, O.D., Idumah, F.O., **Alabi, O.Y.** and Oyelowo, O.J. (2008). Climate change and Biodiversity conservation in Nigeria. In Popoola. L. (Ed.). Climate Change and Sustainable Renewable Natural Resources Management. Proceedings of the 32nd Annual Conference of the Forestry Association of Nigeria. 20–24 October, 2008. Umuahia, Abia State, Nigeria, 243 – 254pp.
3. Odeyemi, E. F., Timothy, I. J. M. and **Alabi, O. Y.** (2021). Potentials of botanicals to control *Balanogastriis kolae* (Desbrochers), a major pest of stored kola nut in Nigeria: A Review. In Orisajo, S. B., Ipinmoroti, R. R. And Adedeji, A. R. (Eds.). The Role of Horticulture in Food Security and Sustainable Health in Era of Climate Change and Covid-19 Pandemic: Proceedings of the 39th Annual Conference of Horticultural Society of Nigeria. Cocoa Research Institute of Nigeria, Ibadan. 254 – 261pp.
4. Timothy, M. I. J. and **Alabi, O. Y.** (2022). Olfactory response of *Megalurothrips sjostedti* Trybom to Headspace volatiles of resistant and susceptible cowpea cultivars. In Olubode, O. S., Agbogidi, M., Ogunkunle, A. And Ejikeme, A. (Eds.). Natural Ecosystem Sustainability in the 21st Century: Proceedings of the Ecological Society of Nigeria, held in Ibadan, Oyo State, Nigeria. 15 - 19 May, 2022. 47 – 59pp.
5. **Alabi, O. Y.**, Meriben, C. A. and Aturu, T. P. (2024). Evaluation of *Moringa oleifera* and *Senna alata* Leaf Powders as Biopesticide against *Callosobruchus maculatus* (Fabricius) in Stored Cowpea Grains. Proceedings of the First OWSD Southwest Conference 3rd to 6th September, 2024. Pp: 26 - 32. (Nigeria) (Contribution: 80%). Proc. of 1st OWSD Southwest Conf. 3rd - 6th Sept., 2024, Univ. of Ibadan, Nigeria.
6. **Alabi, O. Y.** and Olamiyiwa, V. T. 2025. Incidence and Population Dynamics of leafhoppers (*Amrasca biguttula biguttula* (L.) Ishida on Okra (*Abelmoschus esculentus* (L.) Moench accessions, pp 85 - 91. 2nd Biennial Conference of College of Plant Science and Crop Production (COLPLANT`25). Advancing sustainable food system through Climate-Smart Crop Production, held at the International Scholar Centre, Centre of Excellence in Agricultural Development and Sustainable Environment (CEADESE), Federal University of Agriculture, Abeokuta (FUNAAB), Ogun State.
7. **Alabi, O. Y.**, Odebiyi, J. A. and Jackai, L. E. N. (2003). Field Evaluation of Cowpea Cultivars (*Vigna unguiculata* [L.] Walp.) for Resistance to Flower Bud Thrips (*Megalurothrips sjostedti* Trybom) (Thysanoptera: Thripidae). International Journal of Pest Management Vol. 49. No. 4: 287 – 291.
8. **Alabi, O. Y.**, Odebiyi, J. A., and Tamò M. (2004). Effect of Host Plant Resistance on Growth and Developmental Parameters of the Flower Bud Thrips,

Megalurothrips sjostedti (Trybom) on Some Resistant Cowpea (*Vigna unguiculata* [L.] Walp.) Cultivars. Crop Protection Vol. 23. No. 2: 83 – 88.

9. **Alabi, O. Y.**, Odebiyi, J. A., and Tamò M. (2006). The Relationship Between Primary Metabolites in Reproductive Structures of Cowpea *Vigna unguiculata* (Fabaceae: Papilionidae) Cultivars and Field Resistance to the Flower Bud Thrips *Megalurothrips sjostedti* (Thysanoptera: Thripidae). International Journal of Tropical Insect Science Vol. 26. No. 1: 8 – 15.
10. **Alabi, O. Y.**, Odebiyi, J. A., Tamò M., and Omoloye, A. A. (2011). The Roles of Plant Secondary Metabolites from Cowpea Floral Structures in Resistance to the Flower Bud Thrips. Journal of Agricultural Science and Technology Vol. 1. No. 2A: 262 – 269.
11. **Alabi, O. Y.**, Aziza, E. and Omoloye, A. A. (2012). Preliminary Evaluation of Selected Cowpea Varieties for Resistance to Cowpea Aphid, *Aphis craccivora*. Nigerian Journal of Ecology Vol. 12. No. 7: 45 – 55.
12. Souleymane A., Aken'Ova, M. E., Fatokun, C. A. and **Alabi, O. Y.** (2013). Screening for Resistance to Cowpea Aphid (*Aphis craccivora* Koch) in Wild and Cultivated Cowpea (*Vigna unguiculata* L. Walp.) Accessions. International Journal of Science, Environment and Technology Vol. 2, No 4: 611 – 621.
13. **Alabi, O. Y.**, Tamo, M. and Odebiyi, J. A. (2014). Varietal Differences in the Cowpea Calyx Morphology: Implications for Abundance of *Megalurothrips sjostedti* larvae. Nigerian Journal of Ecology Vol. 13: 54 – 62.
14. **Alabi, O. Y.** and Tamo, M. (2014). Evaluation of Cowpea Cultivars for Resistance to *Megalurothrips sjostedti* under Insecticide Applications. Ibadan Journal of Agricultural Research Vol. 10. No. 2: 128 – 136.
15. Omoloye, A. A., Oladapo, O. G. Ibitoye, O. and **Alabi, O. Y.** (2016). Effects of Field Attack by *Ceratitis capitata* Wiedemann (Diptera: Tephritidae) on the Morphology and Nutritional Quality Fresh Fruit of *Citrus sinensis* L. African Journal of Agricultural Research Vol. 11 No. 11: 967 – 973.
16. **Alabi, O. Y.** and Adewole, M. M. (2017). Essential oil Extract from *Moringa oleifera* roots as Cowpea Seed Protectant Against Cowpea Beetle. African Crop Science Journal Vol. 25 No.1: 71 – 81.
17. Fayinminnu, O. O., Adeniyi, O. O., **Alabi, O. Y.** and Omobusuyi, D. O. (2017). Potentials of Aqueous Extract of Pod Husk *Parkia biglobosa* (Jacq.) Benth as a Biopesticide in Okra (*Abelmoschus esculentus* (L.) Moench) Production. Journal of Agriculture and Ecology Research International Vol. 12 No. 1: 1 – 12.
18. Timothy, M. I. J., **Alabi, O. Y.** and Ajala, S. O. (2018). Maize Inbred Lines Susceptibility and Resistance Status to Stem Borer *Sesamia calamistis* Hampson (Lepidoptera: Noctuidae). Nigerian Journal of Ecology Vol. 17. No. 2:126 – 138.
19. Agbaji, F., Aduramigba-Modupe, A.O. and **Alabi, O.Y.** (2020). Mycoflora and

Cowpea beetle Infestation on Selected Cowpea (*Vigna unguiculata* (L.) Walp.) and the Efficacy of some Plant Powders against Storage Fungi. NOUN Journal of Physical and Life Sciences Vol. 4: 116 - 128.

20. Noudegbessi, A.M., **Alabi, O.Y.** and Sikirou, R. (2021). Olfactory Responses of *Sitophilus zeamais* L. to Bushmint leaf powder and methanol extract on stored maize African Crop Science Journal Vol. 29 No. 1: 1 – 12.
21. Ugwu, J.A., **Alabi, O.Y.** and Aluko, O.J. (2021). Insecticidal Activity of Crude Extracts of Three Spices and Commercial Botanical Pesticide on Oriental Fruit Fly Under Laboratory Conditions. The Journal of Basic and Applied Zoology Vol. 82 No. 1: 1 – 7.
22. Ottun, A.Y., **Alabi, O.Y.** and Claudius-Cole, A.O. (2021). Evaluation of Native Entomopathogenic Nematode Isolates for the Management of Selected Insect Pests in Nigeria. Egyptian Journal of Agronomatology Vol. 20. No. 2: 167-176. DOI: 10.21608/EJAJ.2021.195928.
23. Omotoso, F.D., **Alabi, O.Y.** and AdeOluwa, O.O. (2021). Efficacy of *Bacillus thuringiensis* var. *Kurstaki* in the Management of *Helicoverpa armigera* and Assessment of Insects Associated with Tomato Plants. Ibadan Journal of Agricultural Research Vol. 17: 97 – 109.
24. Ugwu, J.A., Aderemi, F.T., **Alabi, O.Y.** and Kareem, K. T. (2022). Evaluation of Three plant powders as protectants of Bambara groundnut against *Callosobruchus maculatus* F. (Coleoptera: Chrysomelidae) infestation and damage. International Journal of Tropical Insect Science Vol. 42: 3273–3281. <https://doi.org/10.1007/s42690-022-00799-2>
25. Akinbuluma, M.D., Okunlola, O.T., **Alabi, O.Y.**, Timothy, M.I. and Omobusuyi, D.O. (2022). Towards Food Security: Essential Oil Components as Protectants Against the Rice Weevil, *Sitophilus oryzae*. Jordan Journal of Biological Sciences Vol. 15. No. 2: 193 – 197.
26. Olorunnibe, N.V., Omoloye, A.A. and **Alabi, O.Y.** (2022). Growth Response and Gall Formation of *Milicia excelsa* C. C. Berg Seedlings Grown on Organically Amended Soil during *Phytolyma fusca* Walker (Hemiptera: Psyllidae) Attack. *Renewable* Vol. 2. No. 1: 20-27.
27. **Alabi, O.Y.** and Onochie, I.J. (2023). Repellence and Attraction Properties of Selected Synthesized Volatile Organic Compounds to Flower Bud Thrips (*Megalurothrips sjostedti* Trybom). Adeleke University Journal of Engineering and Technology Vol. 6. No. 1: 142 – 150.
28. **Alabi, O.Y.**, Olaoluwa, O.O., Odeyemi, E.F. and Buari, R.A. (2023). Insecticidal Activities of Volatile Oils of Lime Fruit Peels And African Black Pepper Seeds On Adult Kola Weevil And Their Chemical Compositions. African Crop Science Journal Vol. 31. No. 3: 301 - 318.
29. **Alabi, O.Y.**, Odeyemi, E.F., Buari, R.A., Ogunsowo, A.O. and Olorundare, B.O. (2023). Efficacy of Botanicals in the Control and Management of Insect Pests of Cashew (*Anacardium occidentale*): A Review. Journal of Research in Forestry,

30. Babarinde, M.Y., **Alabi, O.Y.**, and Ugwu, J.A. (2023). Feeding Preference of *Rhyzopertha dominica* Fabricius, 1792 on Four White Yam (*Dioscorea rotundata* Poir) Chips and Its Control with *Zingiber officinale* and *Capsicum annum*. *Nigeria Journal of Ecology* Vol. 19. No. 1: 73 - 82.
31. Fayinminnu, O.O., Akeem, B.A., Isienyi, N.C. and **Alabi, O.Y.** (2023). Toxicity and Residue of Mexican mint (*Plectranthus amboinicus* Lour.) essential oil as a bio-insecticide on cowpea beetle (*Callosobruchus maculatus* Fabricius). *Nigeria Journal of Ecology* Vol. 19. No. 1:83 - 99.
32. Omotoso, F.D. and **Alabi, O.Y.** (2023). Field evaluation of tomato (*Solanum lycopersicum* L.) varieties for resistance to tomato fruit borer (*Helicoverpa armigera* Hubner) in southwestern Nigeria. *Tropical Agriculture* Vol. 100 No. 4: 290 – 300.
33. Omotoso, F.D., **Alabi, O.Y.**, Akinbuluma, M. D. and Fayinminnu, O. O. (2024). Antibiosis and Antixenosis in Tomato Genotypes against *Helicoverpa armigera* Hubner. *Tropical and Subtropical Agroecosystems* 27: 1 – 11.
34. Awodoyin, T.I., Omoloye, A.A., **Alabi, O.Y.** and Adesoye, O.A. (2024). Growth Impact of *Tuta absoluta* (Lepidoptera: Gelechiidae), Meyrick, on Tomato Plants and Factors Associated with the Pest Longevity in Nigeria. *Dutse Journal of Pure and Applied Sciences (DUJOPAS)*, Vol. 10 No. 2a, 206 – 214.
35. Odeyemi, E.F., **Alabi, O.Y.**, Olaoluwa, O.O., Kpongbe, H., Badmos, S.T., and Tamò, M. (2024). Chemical composition and Insecticidal activity of Volatile oils of *Allium cepa* bulb and *Carica papaya* leaf against *Balanogastriis kolae* infestation on stored kolanuts. *Ife Journal of Science* Vol. 26, no. 2: 397 – 407.
36. Akinbuluma, M.D., Bamifewe, O.O., **Alabi, O.Y.**, Timothy, M.I.J., Roesingh, P., Groot, A.T. (2024). Oviposition behaviour and larval attraction of the fall armyworm *Spodoptera frugiperda* (Lepidoptera: Noctuidae) to different maize plant varieties for pest management in Nigeria. *Phytoparasitica* 52:77; 12 pages. <https://doi.org/10.1007/s12600-024-01197-9>.
37. Idowu, O. and **Alabi O.Y.** (2024). Contact toxicity and feeding deterrent activity of *Dennettia tripetala* Bak. and *Jatropha curcas* L. leaf extracts against *Spodoptera frugiperda* J. E. Smith. *The Journal of Basic and Applied Zoology* 85: 59. <https://doi.org/10.1186/s41936-024-00413-6>
38. **Alabi, O.Y.**, Olagunju, T.O. and Odeyemi, E.F. (2024). Insecticidal Activities of Bengal Dayflower, *Commelina benghalensis* L. Plant Powder and Extracts Against the Cowpea Beetle, *Callosobruchus maculatus* F. (Coleoptera: Chrysomelidae). *Nigerian Agricultural Journal*, 55: 3, 175-188. <http://www.ajol.info/index.php/naj>
39. Olorunnibe, V. N., Omoloye, A. A., and **Alabi, O. Y.** (2025). Abundance of terpenoids in *Milicia excelsa* as an indicator of attractants to the gall bug, *Phytolyma fusca* Walker *Forestist*, 75: 1 - 8, doi: 10.5152/forestist.2025.24018.
40. **Alabi, O. Y.**, Omogoroye O. O., Aduramigba-Modupe A. O., Sajo, A. K. (2025). Field Responses of Provitamin A Fortified Maize (*Zea mays* L.) Varieties to Fall Armyworm (*Spodoptera frugiperda* J. E. Smith) Infestation and Natural

Enemies. *Nigerian Journal of Plant Protection* 39 (1) 143 - 158.

41. Odeyemi, E. F., **Alabi, O. Y.**, Buari, R. A., and Ogunsowo, A. O. (2025). Bioactivity of *Hippocratea velutina* Afzel (Celastraceae) Leaf and Stem Powders as Storage Protectants Against *Balanogastriis kolae* (Desbrocher Des Loges) on *Cola nitida*. *Nigerian Journal of Entomology* 41(1): 178 – 190.
42. Mohammed, I., Olaoluwa, O. O., **Alabi, O. Y.**, Banwo, O. M., Ayodele, M. A. and Flamini, G. (2025). Volatile oil composition, phytochemical screening and larvicidal activities of *Indigofera tinctoria* L. against African *Sesamia calamistis*. *Phytoparasitica* (2025) 53:70. <https://doi.org/10.1007/s12600-025-01292-5>

XI. Major Conferences Attended with Papers Read (in the last 5 years):

1. Ecological Society of Nigeria, Natural Ecosystem Sustainability in the 21st Century held in Ibadan, 15 - 19 May 2022. Oral presentation: Timothy, M. I. J. and **Alabi, O. Y.** (2022). Olfactory response of *Megalurothrips sjostedti* Trybom to Headspace volatiles of resistant and susceptible cowpea cultivars.
2. Plant-Herbivore Interaction in Action: Fundamentals to Applications Gordon Research Conference February 26 - March 3, 2023. 1050 Schooner Drive. Ventura, CA, United States. Poster presentation: Weldegergis, B. T., **Alabi, O. Y.**, Alexandre, V., A. and Dicke, M., Resistance of Cowpea varieties to the flower thrips *Megalurothrips sjostedti* (Trybom) (Thysanoptera:Thripidae) correlated to the plants' Biogenic Volatile Organic Compounds (BVOCs).
3. 4th Circularity Africa Week 2023. Enhancing Sustainable Management of Food Waste and Food Loss in Africa, 8 – 12 May 2023. Organized by the Africa Circular Economy Research and Policy Network (ACERPIN) in collaboration with the International Institute of Tropical Agriculture (IITA). Oral presentation: **Alabi, O. Y.**, Olagunju, T. O. and Odeyemi, E. F., Insecticidal Activities of Bengal dayflower, *Commelina benghalensis* L. Plant Powder and Extracts Against the Cowpea Beetle, *Callosobruchus maculatus* F. (Coleoptera: Chrysomelidae).
4. The 5th Euro-Mediterranean Conference for Environmental Integration was held in Rende (Cosenza), Italy, from 2 to 5 October 2023. Oral presentation: **Alabi O. Y.** and Agbede, T. O. Evaluation of OIKOS-GT® as Protectant against *Callosobruchus maculatus* Fabricius and *Sitophilus zeamais* Motschulsky on Stored Cowpea and Maize.
5. The URBANE 18M Meeting, Centre for Biodiversity Conservation Research, University of Ghana, Accra. Oral presentation: Adetimirin, V. O., Adewumi, M. K., Olugasa, B. O., Adeoluwa, O. O., Aduramigba-Modupe, A. O. and **Alabi, O. Y.** Task 7.4: Integrated Sustainability Assessment of URBANE Project at Case Study Sites. Date: 6 – 8 February, 2024.
6. The maiden edition of the Organisation for Women in Science for the Developing World (OWSD) Southwest Conference at Ibadan was held at the Faculty of Science Lakeside Lecture Theatre, University of Ibadan, Ibadan, Nigeria on 3rd to 6th September, 2024. Oral presentation: **Alabi, O. Y.**, Meriben, C. A. and Aturu, T. P. Evaluation of Two Plant Powders, *Moringa oleifera* and *Senna alata* As Biopesticides of Stored Cowpea Grain Pest, *Callosobruchus maculatus* (Fabricius).
7. 7th World Cowpea Research Conference (WCRC 2024). Cowpea Technologies for Enhancing Climate Resilience, Food and Nutritional Security. September 23 – 26, 2024. Hotel Golden Tulip, Cotonou, Republic of Benin. Oral Presentation: **Alabi, O. Y.**, Aziza, E. and Timothy, M. I. J. The role of cowpea primary and secondary metabolites on the developmental biology of Cowpea Aphids (*Aphis craccivora*) (L.) Koch.
8. The Global Okra Round Table II and 5F Farming conference was held at the National Horticultural Research Institute (NIHORT), Ibadan, Oyo State, Nigeria, from 2nd to 4th October 2024. Oral Presentation: Okoro, O., **Alabi, O. Y.**, Temidayo P. Aturu, T. P., Aduramigba-Modupe, A. O., Adeoluwa, O. O., Adeniji, A. O., Razafindralambo, H. L. and Adetimirin, V. O. Evaluation of Synbiotics as Biopesticides Against Insect Pests of Okra (*Abelmoschus esculentus* Mot.).

9. Nigeria Women in Agriculture and Development (NiWARD) November 19 - 21 November 2024 held at the Institute of Agricultural Research and Training, Moor Plantation, Apata, Ibadan. Oral presentation: Abdulmalik, Okoro, O., **Alabi, O. Y.** Incidence and Damage of Hairy Caterpillar (*Selepa docilis* Butler) on Selected Varieties of Eggplant (*Solanum melongena* L.) under Field Conditions.

RESEARCH FOCUS

The productivity of crops is heavily influenced by both biotic and abiotic factors present in the environment. These variables can interact in a way that poses a significant threat to food security. Throughout crop cultivation and storage, insects can seriously threaten crops, resulting in significant damage and serving as a major biotic stressor. My research is dedicated to developing environmentally sustainable methods to safeguard crops from pests while enhancing crop yield, food safety, and security. My area of expertise lies within crop protection entomology, where I place a particular emphasis on host plant resistance and the use of biopesticides.

My research is centred on exploring the intricate interplay between insects and crops, with the ultimate objective of devising innovative strategies to control pests and minimize their deleterious effects on crop yields and stored commodities. Specifically, my work thoroughly investigates the intrinsic traits of various crop varieties that contribute to their ability to avoid, resist or recover from damage caused by insect infestations. Through this research, I have identified some crop species' underlying resistance mechanisms, antibiosis, antixenosis, tolerance, and the biochemical and biophysical foundation of resistance and tolerance. My ultimate goal is to provide plant breeders with diverse resistant lines that can be leveraged to develop crops with even stronger and more sustainable resistance.

Another mild control tactic I have explored to minimize insect activities on crops is the development of biopesticides. The biopesticide products I have investigated range from plant powders, extracts, and essential oils to entomopathogenic organisms, specifically bacteria and nematodes. Most of the biopesticides have reduced insect pest populations below damaging levels. In terms of efficacy, they compare favourably with conventional chemicals that are harmful because of their deleterious effects on humans and the environment. Biopesticides are unequivocally a safer and far more environmentally friendly alternative to chemical pesticides. Furthermore, their exceptional ability to target specific pests renders them an incomparable

choice. My work on biopesticides preserves the environment and ensures food safety while minimizing activities of crop pests on the field and in-store.

.....

Dr Olajumoke Y. Alabi

.....

Date