

CURRICULUM VITAE

- I. (a) Name: Mobolade Dele AKINBULUMA
 (b) Date of Birth: 4 June 1983
 (c) Department: Crop Protection and Environmental Biology
 (d) Faculty: Agriculture
- II. (a) First Academic Appointment: Assistant Lecturer (1 July 2014)
 (b) Present Post (with date): Lecturer II (7 August 2017)
 (c) Date of last Promotion: Not applicable
 (d) Date last considered (in cases where promotion was not through): Not applicable
- III. University Education (with dates)
 (a) Federal University of Technology, Akure (FUTA), Ondo State, Nigeria. 2001 - 2006
 (b) University of Ibadan (UI), Ibadan 2008 - 2009
 (c) University of Ibadan (UI), Ibadan 2011 - 2017
- IV. Academic Qualifications (with dates and granting bodies)
 (a) B. Agric. Tech. (Hons.) Crop, Soil and Pest Management Nov., 2006 FUTA, Akure
 (b) M.Sc. Crop Protection (Entomology) Nov., 2010 UI, Ibadan
 (c) Ph.D Agriculture (Entomology) Aug., 2017 UI, Ibadan
- V. Scholarships, Fellowships and Prizes (with dates) in respect of Undergraduate and Postgraduate work only
 (a) University of Ibadan, Tertiary Education Trust Fund. Academic Staff 2016
 Training and Development. Award for Undertaking a Bench work at the
 International Centre of Insect Physiology and Ecology, Nairobi, Kenya
 (b) University of Ibadan, Nigeria. Postgraduate School 2017
 Award for Publication of Two Articles from Ph.D Thesis
- VI. Honours, Distinctions and Membership of Learned Societies
 (a) Member, Entomology Society of Nigeria
 (b) Member, Nigerian Society of Plant Protection
 (c) Member, Institute of Professional Agriculturists of Nigeria
 (d) Member, Nigerian Institute of Management
- VII. Details of Teaching/Work Experience
 Department of Crop Protection & Environmental Biology 2014 Till Date
 (a) Teaching
- | <u>Course</u> | <u>Course Title</u> | <u>Units</u> |
|---------------|---|--------------|
| *CPE 211 | Introduction to Plant Protection | 2 |
| *CPE 312 | Insect Biology | 3 |
| CPE 323 | Insect Ecology and Behaviour | 3 |
| *CPE 318 | Insect Morphology and Systematics | 3 |
| *CPE 411 | Principles and Practices of Crop Protection | 2 |
| *CPE 519 | Special Topics in Crop Protection | 2 |
| CPE 599 | Special Projects in Agricultural Biology | 6 |

*Co-taught

(b) Student Supervision:

- (i) B. Agric.: 3 (Completed)
- (ii) M.Sc.: 1 (On-going)

(c) Administrative Responsibilities in the University:

-Department of Crop Protection & Environmental Biology

- (i) Member, Committee on Undergraduate Programme Aug. 2014 Till Date
- (ii) Member, Committee on Environmental Sanitation Sept. 2016 Till Date

(d) Work Experience in other places

(1) National Youth Service Corps, Day Secondary School, Ija-Gwari, Niger State 2007 - 2008
-Responsibilities

- (i) Teaching students on theoretical and practical Agricultural and Biological Sciences
- (ii) Managing the school farm for production of arable crops
- (iii) Maintaining the school library and ensuring cleanliness in the village through Community Development Services

(2) Agricultural Science Teacher/ Farm Coordinator, Albesta Academy, Lagos 2008 - 2009
- Responsibilities

- (i) Teaching students on theoretical and practical Agricultural Sciences
- (ii) Coordinating the college farm for production of arable crops, fish and snail

(3) Lecturer, Afe Babalola University, Ado Ekiti, Ibadan Branch 2011- 2014
- Responsibilities

- (i) Coordination of academic activities in the Science unit
- (ii) Teaching of courses in Biological Sciences
- (iii) Conducting practicals on aspects of Biological sciences

VIII

Research Interest

- Biology, Ecology and Management of Insect Pests
- Natural Product Insecticides. Chemical Ecology
- Phytochemical screening, Isolation and Characterization of botanicals
- Storage Entomology/Postharvest Research, Biological control of Insect Pest

Research

(a) Completed

IX

- (i) Comparative efficacy of extracts from *Azadirachta indica*, *Piper guineense* and pirimiphos-methyl against *Sitophilus zeamais* in stored maize.
- (ii) Bioecology of *Sitophilus zeamais* on maize and its management with resistant

varieties and bioactive compounds of *Piper guineense*

- (iii) Evaluation of maize cultivars for resistance to *Sitophilus zeamais*
- (b) In progress
 - (i) Evaluation of postharvest losses due to insect pests of food grains and pulses

Maize and cowpea grains have been purchased from research institutes and cultures of the major insect pests of the grains, including *Sitophilus zeamais* and *Callosobruchus maculatus* are maintained in the Entomology Research Laboratory. Teneral adult insect pests have been used to infest fresh grains of maize and cowpea for assessments. Data collection is ongoing. The findings from this research will help to appropriate the damage caused by insect pests to stored produce.
 - (ii) Phytochemical investigations of tropical plant parts for the management of stored product pests

This study is established to profile the secondary metabolites of tropical plant parts. Plants parts that have insecticidal properties from the family Rubiaceae, Meliaceae and Moringaceae have been sourced. Soxhlet extraction of the plant materials had been completed with absolute ethanol, as solvent. The secondary metabolites are being investigated following standard procedures. This research will provide useful information towards isolation and characterization of the plant parts for the management of stored insect pest.
 - (iii) Biology and Ecology of the Fall armyworm, *Spodoptera frugiperda*

The aim of this study is to understand the reproductive and developmental biology of the fall armyworm with a view to managing the insect pest. Field collection of *S. frugiperda* will be established on young maize leaves and artificial diet in the Entomology Research Laboratory of the University of Ibadan, Nigeria. The different life stages of the insect pest will be determined on the young maize leaves and artificial diets used.
- (c) Project, Dissertation and Thesis
 - (i) Akinbuluma, M. D. (2006). Effects of Azolla (*Azolla* spp.) on physic-chemical properties of the soil. 34pp. -B. Agric. Tech. Project. The Federal University of Technology, Akure.
 - (ii) Akinbuluma, M. D. (2010). Comparative efficacy of extracts from two plants and pirimiphos-methyl against *Sitophilus zeamais* Motschulsky in stored maize. 47pp. -M. Sc. Project. University of Ibadan, Ibadan.
 - (iii) Akinbuluma, M. D. (2017). Bioecology of *Sitophilus zeamais* on maize and its management with resistant varieties and bioactive compounds of *Piper guineense* Schum and Thonn. 145pp. - Ph.D. Thesis. University of Ibadan, Ibadan.

X. Publications

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

1. **Akinbuluma, M. D.**, Ewete, F. K. and Torto, B. (2017). Isolation and identification of compounds from *Piper guineense* seed extract for the management of *Sitophilus zeamais* on stored maize. In Peer-Reviewed Conference Proceedings of the First All Africa Postharvest Congress and Exhibition on Reducing food losses and waste: Sustainable Solutions for Africa held at Safari Park Hotel, Nairobi, Kenya between 28th and 31st March, 2017.

(b) Articles that have already appeared in learned journals:

1. **Akinbuluma, M. D.** and Ewete, F. K. (2014). Comparative efficacy of extracts from *Azadirachta indica*, *Piper guineense* and pirimiphos-methyl against *Sitophilus zeamais* Motschulsky (Coleoptera: Curculionidae) in stored maize. *Journal of Biology, Agriculture and Healthcare* Vol. 4 No. 27: 327-334. India [80% Contribution].
2. **Akinbuluma, M. D.**, Yeye, E. O. and Ewete, F. K. (2015). Qualitative Phytochemical screening of *Acalypha fimbriata*, and its methanol extract as protectant against *Sitophilus zeamais* (Coleoptera: Curculionidae) on stored maize. *Journal of Natural Sciences Research* Vol. 5 No. 6: 136-141. Iraq [70% Contribution].
3. **Akinbuluma, M. D.**, Adepetun, M. T. and Yeye, E. O. (2015). Insecticidal Effects of Ethanol Extracts of *Capsicum frutescens* and *Dennettia tripetala* against *Sitophilus zeamais* Motschulsky on stored maize. *International Journal of Research in Agriculture and Forestry* Vol. 2 No. 11: 1-7. USA [60% Contribution].
4. **Akinbuluma, M. D.**, Ewete, F. K., and Yeye, E. O. (2017). Phytochemical investigations of *Piper guineense* seed extract and their effects on *Sitophilus zeamais* (Coleoptera: Curculionidae) on stored maize. *Journal of Crop Protection* Vol. 6 No.1: 45-52. Iran [60% Contribution].
5. **Akinbuluma M. D.** and Ewete F. K. (2017). Field Infestation and Development of *Sitophilus zeamais* (Coleoptera: Curculionidae) on Four Maize Cultivars in Nigeria. *Ibadan Journal of Agricultural Research* Vol. 12 No.1: 31-37. Nigeria [80% Contribution].
6. **Akinbuluma, M. D.** and Adeyemi, W. A. (2017). Laboratory evaluation of *Cedrela odorata* (L) for the management of cowpea beetle, *Callosobruchus maculatus* (F.) in Ibadan Nigeria. *Nigerian Journal of Ecology* Vol. 16 No. 2: 120-127. Nigeria [70% Contribution].

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

- (i) First AAUA Leadership Institute, Conference on Governance in Ondo State, Jojein Hotels, Oba-Ile, Akure, Ondo State between, 26th – 28th of March 2013.

Paper read: Harnessing Potential in Agriculture in the context of Ondo State.

- (ii) Conference on Food Security and Edible Spaces by the Department of Urban and Regional Planning, University of Ibadan held at Conference Centre, University of Ibadan between 12th – 13th August, 2014

Paper read: Food Security in Agriculture in Oyo State.

- (iii) 46th Annual Conference of the Entomological Society of Nigeria (ESN) held at the University of Lagos, Lagos State, between 6th – 9th of October 2015.
- (iv) First All Africa Postharvest Congress and Exhibition held at Safari Park Hotel, Nairobi, Kenya, between 28th – 31st of March 2017.

Paper read: Isolation and Identification of compounds from *Piper guineense* seed extract for the management of *Sitophilus zeamais* on stored maize.

Dr. Mobolade Dele AKINBULUMA

18/10/2018