OBAFEMI AWOLOWO UNIVERSITY, ILE-IFE

CURRICULUM VITAE

A.` PERSONAL DATA:

1.	Full name	OLADEJO Atanda Samuel
2.	Date and Place of Birth:	7th March 1974, Iwo.
3.	Contact Details:	
	a. Physical address:	Department of Crop Production and Protection, Obafemi Awolowo University, Ile-Ife, Nigeria.
	b. E-mail Address:	soladejo@oauife.edu.ng; sooladejo@gmail.com
	c. Mobile Phone Number:	08033865689
4.	Nationality:	Nigeria
5.	Permanent home address:	No 19, Oloboroku Lane, Isale-Oba, Iwo.
6.	Marital Status	Married
7.	Present Status:	Lecturer I

B. EDUCATIONAL BACKGROUND:

1. Academic and Professional Qualifications with Dates:

.	B.Agric. Plant Science, Second Class Lower Division	2005
.	M.Sc. Crop Production and Protection (Breeding and Genetics)	2010
	Ph.D. Plant Science (Breeding and Genetics)	2015

(a). Scholarship:

IITA R4D –Scholarship for PhD research (Tropical Legume II) 2012 – 2015

(b). Fellowship:

Netherlands/Nuffic Fellowship Programme for short training course on Plant Genetics Resources and Seeds: Community resilience in the face of change held in Chennai and Jeypore, India. 2014

(c). Grant:

1. Thabo Mbeki/Tshwane University Travel Grant for Conference in Pretoria, South Africa March, 2016.
2. N250,000 for Public Awareness of Biosafety and Agricultural Biotechnology Products for Southwestern Nigeria Radio Programme, 2016

‘3. USD 5,000 USAID/PBS/OFAB Grant for GM and Biosafety Workshop 2016

4. USD 5,000 USAID/PBS/OFAB Grant for GM and Biosafety Workshop 2017
5. USD 7,500 USAID/PBS/OFAB Grant for GM and Biosafety Workshop 2018

E. PUBLICATIONS

1. Theses/Dissertations:

(a) **Oladejo, A. S**. 2010. Physiological determinants of yield in cowpea [*Vigna unguiculata* (L.) Walp]. *MSc. Thesis.*

(b) **Oladejo, A. S.** 2015**.** Genetic analysis of resistance of cowpea [*Vigna unguiculata* (L.) Walp] to thrips (*Megalurothrips sjostedsti* Trybom). *Ph.D. Thesis.*

3. Published Journals Articles:

i. **Oladejo, A. S.,** R. O. Akinwale and I.O. Obisesan (2011): Interrelationship among grain yield and other physiological traits in cowpea (*Vigna unguiculata* L.Walp) cultivars; *African Crop Science Journal*, 19 (3) 189-200. (**UGANDA**).

ii. **Oladejo, A. S**., Toyinbo O. J. and I. O. (2016): Principal components as measures of morphological and physiological descriptors as indispensable determinants of yield in cowpea (*Vigna unguiculata* L Walp) *Nigerian Journal of Genetics*. 31: 65 – 76. **NIGERIA**

iii. **Oladejo, A. S.**, Boukar, O., Fatokun, C. A. and Obisesan, I.O. (2017). Genetic analysis of thrips resistance in cowpea (*Vigna unguiculata* [L.] Walp.). *Euphytica*. 213:216 – 227. **THE NETHERANDS**. DOI: 10.1007/s10681-017-2001-6

5. Papers published in Referenced Conference Proceedings.

iv. **Oladejo, A. S.,** I. O. Obisesan and Omitogun, O. G. (2010): Relationships among thirty elite cowpea (*Vigna unnguiculata* L. Walp) varieties as revealed by physiological and molecular descriptors; published in book of abstracts and proceedings for the 5th World Cowpea Research Conference 2010 held in Saly, Senegal on 27th September – 1st October, 2010. (**SENEGAL**).

v. **Oladejo, A. S.,** Boukar, O., Fatokun, C. A. and Obisesan, I. O**. (**2015). Genetic variability among Fi genotypes of cowpea to flower bud thrips. *African Society of agronomy, Crop, Soil and Environmental Sciences (ASCASES) Conference Proceedings*. 1. 106 – 109. (**NIGERIA**).

6. **Manuscript Accepted for publication:** Nil

7. Manuscripts submitted for publication:

i. SDS-PAGE characterization of some elite cowpea (*Vigna unguiculata* L. Walp) varieties *Acta Botanica Hungarica* **(HUNGARY)**

ii. Diversity study in *Vigna* species and its implications in breeding

1. **Papers and Works in Preparation:**

i. Genetic variability of cowpea to flower bud thrips
ii. Interrelationship among thrips resistance traits in cowpea
iii. Probing resistance status of five identified cowpea lines to thrips
iv. Genotypic and agronomic performance of some selected varieties of cowpea
v. Genetic study of seed size in cowpea (*Vigna unguiculata* (L) walp)
vi. Genetic study of seed coat texture in cowpea (*Vigna unguiculata* (L) walp.)
vii. Segregation of genes controlling coat colour in cowpea (*Vigna unguiculata* (L) Walp)

F. **PROFESSIONAL ACCOMPLISHMENT**

i. Facilitation of three Annual Southwest Agroecological GMOs and Biosafety Awareness Workshop
ii. Identification of cowpea lines that are resistant to flower bud thrips (TVnu 72, TVnu 1249, NGT 65B, TVu 2723).
iii. Successful crosses of cowpea –*Unguiculata* with *Vexillata* known to be cross - incompatible with each other.

iv. Discovery of the mode of inheritance of thrips resistance in cowpea to be preponderance of additive gene effect.
v. Proficiency in use statistical packages such as SAS, SPSS and GGE Biplot in analyzing agricultural and biological research data.
vi. Hand-on experience in DNA and Protein analysis *vis as vis* PCR and utilization of genomics for crop improvement.
vii. Facilitation of Annual Hands on Training on Basic Molecular Techniques 2017 till date
Ude, G., Micklos, D., John,S., Marian,U., Ogbonna,J., Peter,O., **Oladejo, A.S**. and Anieke,C. (2014). *Strophanthus preussii* isolate DNAS-5A-59748 ribulose-1, 5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast. *American GenBank*: KJ746500.1. pp 11-17. **(US).**
viii. Successful implementation of numbers of development subprojects in the World Bank National Fadama III Development Project as a Community Facilitator.

G. CONFERENCES (SEMINARS AND WORKSHOP) ATTENDED WITH DATES

i. Participant of 31st Genetics Society of Nigeria Conference held at National Centre for Genetic Resources And Biotechnology (NACGRAB) Ibadan between 6th - 9th November, 2006.
ii. Participant of Seed Testing and Seedling Analysis for National Seed Service Analysts in held at Seed Science Laboratory, Department of Crop Production and Protection, OAU Ile-Ife, between 25th - 28th February, 2008.
iii. Participant of 33rd Genetics Society of Nigeria Conference held at Main Auditorium, University of Ilorin, Ilorin between 28th - 29th September, 2009.
iv. Participant of Workshop on DNA Barcoding organized by DNA Learning Center, Cold Spring Harbor, New York, U.S held Godfrey Okoye University Enugu between 3rd – 4th January, 2013.
v. Participant of the Advanced Training Course on Statistical Computing Analysis System (SAS) organized by Biometry Unit IITA, Ibadan held at Musa Room, IITA between 2-6 September, 2013.
vi. Participant of the Training Course on The Use Geographical Information System (GIS) organized by IARSAF-IITA held at International Institute of Tropical Agriculture, Ibadan between 9th January – 13th December, 2013.
vii. Participant of the 17th Annual Symposium of International Association of Research Scholars and Fellows (IARSAF) on Agricultural Transformation Agenda held at IITA-Ibadan on 27th March, 2014.
viii. Participant of the training on the use of R-Statistics and genome wide association studies in breeding and genetics organized by Cornel University delegates held at IITA-Ibadan between 7 – 11 July, 2014.
ix. Participant of Training course on Integrated Breeding Management for IITA cowpea and soybean field technicians at IITA-Ibadan, June, 2015.
x. Participant and Presenter of paper at the African Society of Agronomy, Crop, Soil and Environmental Sciences held International Conference Centre, Abuja- Nigeria, 2nd – 5th November, 2015.
xi. Participant and Presenter of paper at the Colloquium for Journal and Book Publications on Innovation Research for an Integrated African Development, University of South Africa, Pretoria, 9th – 11th March, 2016.
xii. Participant and Co-Presenter of paper at the Agricultural Biotechnology and Biosafety Workshop held at Sheraton Hotel and Towers, Federal Capital Territory Abuja, 17th - 18th March, 2016.

xiii. Participant of the Workshop on Breeding Management System organized by Integrated Breeding Platform held at the Board Room, Faculty of Agriculture, Obafemi Awolowo University Ile – Ife, 29 November – 1st December, 2017.

xiv. Co-organizer (LOC Secretary) and Participant of the Annual Southwest Agro-ecological Biosafety Awareness Workshop held at Obafemi Awolowo University, Ile – Ife , 18th – 21st September, 2018.

xv. Participant of the Workshop on Grantmanship and Plagiarism organized by Central Office of Research, Obafemi Awolowo University, Ile – Ife, 23rd – July, 2018.

xvi. Participant and Member of National Biosafety Management Technical Committee on review of application dossier on commercialization of Bt cowpea at Abuja 16th – 17th January, 2019.

xvii. Participant and presenter at the Feedback Scientific Conference in Honour of Prof. MAB. Fakorede held at Main Hall, Africa Centre of Excellence for Software Engineering, Department of Computer Science and Engineering, OAU, Ile Ife, 12-13 March, 2019.

H. CURRENT RESEARCH ACTIVITIES

i. Preliminary study of some cowpea varieties for their nodulation ability and agronomic performances. Field evaluations were done in the early season of year 2019 in which comprehensive data collected will be used in selecting varieties to be included in cowpea breeding programme for improvement of yield and nodulation ability.

ii. Probing basis of resistance of some identified resistant cowpea lines. Laboratory investigation is about to commence.

J. CONTRIBUTIONS TO KNOWLEDGE

The main thrust of my research is to boost yield in crop plants with special interest in cowpea via the application of Plant Breeding and Genetics principles in a bid to tackle the problem of food insecurity in Nigeria. In this light, breeding and genetics pave ways for genes recombination which is the basis of the development of new varieties of crops.

a. Resistance of Cowpea to a Major Biotic Stress

Cowpea production is limited by various biotic and abiotic stresses, of which flower bud thrips causes seventy-percent yield loss. I have screened hundreds of different cowpea lines and able to identify four outstanding lines that resistant to flower bud thrips (*Megalurothrips sjostedti*) viz: TVnu 72, TVnu 1249, NGT 65B and TVu 2723. These lines except TVnu 1249 have been used in crosses with elite varieties to obtain enhanced resistant lines of cowpea.

b. Mode of Inheritance of Flower Bud Thrips resistance in Cowpea

My research addressed a major biotic stress (flower bud thrips – *Megalurothrips sjostedti*) of cowpea and while North Carolina Design mating II was employed to generate crosses to determine best breeding methods to develop improved resistant varieties, the results of my research indicated the preponderance of additive gene action confers resistance to the insect pest.

Signature: Date:14th October, 2019.