

CURRICULUM VITAE

I. PERSONAL INFORMATION

Title: Dr.
Family Name: ODUNTAN
Other Names: Oluwafemi Babatunde
Place of Birth: Ebute- Metta, Lagos State, Nigeria
Nationality: Nigerian
Marital Status: Married
Present Position: Senior Lecturer and Consultant (Fisheries Facility Design & Management)

II. CURRENT ADDRESS

Department of Aquaculture and Fisheries Management
University of Ibadan, Nigeria
Tel.: (234)8033272525 mobile
e-mail: femkem03@yahoo.co.uk or oduntan.oluwafemi@dlc.ui.edu.ng

III. ELEMENTARY EDUCATION

School Attended	Dates	Certificate Obtained
i) Urban-day Grammar Sch. Ring-Road, Ibadan, Nigeria.	1980 – 1985	WASC

IV. PROFESSIONAL EDUCATION

B.Sc. Agricultural Engineering (1994; Obafemi Awolowo University, Ile-Ife)
M.Sc. Agricultural Engineering (2010; Obafemi Awolowo University, Ile-Ife)
M.Phil. Agricultural & Environmental Engineering (2014; University of Ibadan, Ibadan).
Ph.D. Agricultural & Environmental Engineering (2018; University of Ibadan, Ibadan).

V. Professional Qualification and Diplomas (with dates)

Professional Certification in Engineering; (COREN); 2014

VI. Membership of Learned Societies:

- a) Member, American Society of Agricultural and Biological Engineers (ASABE)
- b) Member, Canadian Society for Bioengineering (CSBE/SCGAB)
- c) Member, Nigerian Institution of Agricultural Engineers (NIAE)

VII. Teaching /Work Experience

- a) Assistant Operation Manager, Rivercess Nigeria Limited, Ilaro, Oja-Odan Road, Ilaro, Ogun State; 1995-1996
- b) Assistant Engineer, Songhai Project, Porto Novo, Republic of Benin; 1996- 1997
- c) Assistant Engineer, AJO Engineering Works Plot X1 Block 26 Oluyole Est., Ibadan, Oyo State; 1997-1999

- d) Operation Manager, Fexod Fedek Ventures, Apata, Ibadan Oyo State; 2000-2013
- e) Lecturer II, Crop Production Department, Olabisi Onabanjo University, Ago – Iwoye, Ogun state, Nigeria; 2013 –2015
- f) Assistant Lecturer, Dept. of Aquaculture and Fisheries Management, University of Ibadan; 2015-2016
- g) Lecturer II, Department of Aquaculture and Fisheries Management. University of Ibadan; 2016 to 2019
- h) Lecturer I, Department of Aquaculture and Fisheries Management. University of Ibadan; 2019 to 2022
- I) Senior Lecturer, Department of Aquaculture and Fisheries Management. University of Ibadan; 2022 to date

University Administration Participation

AWARDS, HONOUR AND DISTINCTIONS

- (a) Member, Departmental Farm Management Committee; 2016/2017 to date
- (b) Assistant Coordinator, Practical Year Training Committee, Department of Aquaculture & Fisheries Management; 2016/2017 to date
- (c) Coordinator, Departmental Structure/Facility Management Committee; 2015/2016 to date
- (d) Coordinator, Departmental ICT Committee; 2016/2017 to date
- (e) Member, University Library Committee; 2017/2018 to date
- (f) Member, Departmental Disciplinary Committee; 2018/2019 to date
- (G) Sub-Dean, Faculty of Renewable Natural Resources, University of Ibadan; 2021/2022 to date.

VII. Short Term Training

- 2016: Training on Aquafeed Extrusion Technology, Centre for Feed Technology (Fortek) at As, Norway. (3 Days)
- 2016: Training on Food and Feed Drying Technology, Centre for Feed Technology (Fortek) at As, Norway. (2 Days)

VIII. FIELDS OF COMPETENCE

- Environmental Impact Assessment
- Aquaculture and Environmental Engineering Development and Management
- Pond construction for extensive or semi-intensive culture systems
- Design of Suitability of a pond site
- Inland and Coastal Fisheries Facilities Design Management (Team Work)
- Fish Stock Assessment and Biodiversity Facilities Design Management (Team Work)
- Water quality and pollution control Facilities Design Management
- Training and Manpower Capacity Building
- Research
- Natural Resources Management and Policy Analysis
- Natural Resources (Agriculture) Development Policy and Planning
- Portfolio Management (Procurement, Disbursement Processing, and Contract Management)

IX. International Project

Project 1 – West and East African Council for Agricultural Research and Development (WECARD/CORAF):

Year: 2014 – 2017.

Location – Nigeria

Client – African Development Bank

Main Project Features

- Integrated Aquaculture on Fish cum rice and poultry production
- Development of fish processing equipment.
- Design of ponds.
- I assisted in management of integrated water resources in relation to fish culture.

Positions held – Project Engineer.

Activities Performed

- Design/Construction/Installation/Training
- Field Work

Project 2– Environmental Impacts Assessment for the Aquaculture projects in Ibadan.

Year: 2018 – 2019.

Location – Nigeria (Oyo State)

Client – Globus Resources Ltd and Triton Aqua Africa Ltd Aquaculture

Main Project Features

Technical supervision

Positions held – Water management.

Activities Performed

- Obtaining information for a good water supply and yield
- Content writing and editing

Project 3 – Fish Innovation Lab/WorldFish project (Lean Production Systems)

Year – 2021-2023

Location – Nigeria (Ogun/Oyo State)

Clients – WorldFish project

Main Project Features –

- Lean data collection technicality and redcap troubleshoot” for selected LSME
- Technical LEAN subject matter expert on Lean Production Systems in Aquaculture

Activities Performed

- Data collection

Project 4 - USAID - UNIVERSITY OF GEORGIA Food Innovation Laboratory project on Integrated Fish Rice Farming

Year- 2020

Location – Nigeria (Oyo, Kebbi and Ebonyi state)

Duration – (2020 – 2023).

Clients – WorldFish project.

Main Project Features –

Design/construction Engineer

- Positions held – Project Engineer
- Activities Performed
 - Project planning
 - Field work
- Design//construction of simple black soldier fly (BSF) production system fir local farms
- Development of extruded BSF based aqua-feed

Project 5- INCITIS-FOOD Project (2023)

Year- 2023

Location – Nigeria (Oyo State)
Duration – (2023-)
Clients – European Research Executive Agency (REA).
Main Project Features –

- Technical lead aquaponic/living lab manager

Positions held – Project Engineer
Activities Performed

- Project planning in UI Living Lab
- Field work

X. Research:

(a) Completed:

- (i) Design of Fish Feed Extruder
- (ii) The Optimization of the Loading Capacity/rate of CORAF/WECARD Smoking Kiln
- (iii) Evaluate the performance of the fluidized bed dryer
- (iv) Performance Evaluation of Animal feed Fat Coating Machine
- (v) Evaluation of Growth Performance of African Catfish (*Clarias gariepinus*) using Plantain Peel Based Aqua feed.
- (vi) Effect of Maize Soaking Time on the Physical and Mechanical Properties of Extruded Feeds

(b) In Progress

- (i) Performance evaluation of manually operated aqua feed pelletizer.
This study was on the design and fabrication of a manually operated aqua feed pelletizer. The manually operated aqua feed pelletizer was constructed and it will be tested under industrial conditions. The energy consumption will be found to be very economical with a very high throughput compared to corresponding values obtained from two existing manually operated aqua feed pelletizer. The quality of the extrudates produced from the new pelletizer will be evaluated. Laboratory studies have been ongoing since 2018.
- (ii) Optimization of the process variables of a single screw extruder for the production of Agro-Biomass (Watermelon pomace, tiger nut pomace, and corn combs) and BSF based aqua feed. The extrusion method still restricts the use of extrusion cooking to a few new ingredients. We are currently investigating the use of a possible agricultural waste substitute ingredient to produce fish feed with good potential for extrusion cooking. This research has recently been extended to determine the physical properties of the extrudates. Laboratory studies have been ongoing since 2016 and several products have been tested. Energy utilization of the total operation and the biological evaluations of the extrudates are now being investigated.
- (iii) Simple aquaponics and hydroponics are being developed for the production of fruits and vegetables. Artificial illumination, nutrients flow rate, slope, and plant substrate type are all being examined.

(c) Project, Dissertation and Thesis:

- (i) **Oduntan, O. B.** (1994). Investigation on Drying Characteristics of Perishable Horticultural Crops. B.Sc. Project, Department of Agricultural Engineering, Obafemi Awolowo University, Ile-Ife, Nigeria, 69pp.

- (ii) **Oduntan, O. B.** (2010). Development of a cassava pelletizer. M.Sc. Dissertation, Department of Agricultural Engineering, Obafemi Awolowo University, Ile-Ife, Nigeria. 136pp.
- (iii) **Oduntan, O. B.** (2014). Development of pineapple (*Ananas comosus* [L.] Merr.) pomace based extruder. M.Phil. Dissertation, Department Agricultural and Environmental Engineering, University of Ibadan. 133pp.
- (iv) **Oduntan, O. B.** (2018). Optimisation of process variables of single screw extruder for the production of pineapple (*Ananas comosus* [L.] Merr.) pomace aqua feed. Ph.D. Thesis, Department Agricultural and Environmental Engineering, University of Ibadan. 272pp.

XI. Publications

(a) Refereed Conference Proceedings

- (1) Oguntade O. A., Adebari, T. O., Odusanya, A. O. and **Oduntan, O. B.** (2015) The role of Composted Poultry Manure in Reducing Bioavailability of Heavy Metals in Tissues of *Celosia argentea* L. Grown on Dumpsite and Garden Soils. In: Rahmann, G. And Olabiyi, T. I. (Eds.). *Achieving Social and Economic Development through Ecological and Organic Agricultural alternatives: Proceedings of the 3rd African Organic Conference*, Nigeria. 5-6 October, 2015. Olowe, V. I. Eds. Lagos: 89-92pp.
- (2) **Oduntan, O. B.** and Bamgboye, A. I. (2018). Specific Mechanical Energy Consumption of Extrusion of Pineapple Pomace Based Fish Feed. In: Akinoso, R., Alonge, A. F., Omobowale, M and Zhang, L. *Innovations and Technologies for Sustainable Agricultural Production and Food Sufficiency: Proceedings of the 12th CIGR Section VI International Symposium*, 22–25 October, 2018. Ibadan: 844-851pp.
- (3) Oyedeji, E. O., Oduntan, A. O., Oso, O.O., Fadara, A. B and **Oduntan O. B.** (2018) Anti-Oxidant and anti-Microbial Properties of Pineapple Pomace Extract. In: Balogun, T. F., Asadu, C. L. A., LaRosa, D., Gwamna, U., Omojor, Y. M., Oluremi, O. I. A., Chude, V. O., Afolami, S. O., Lasehinde, E. A. Jayeoba O. J. and Sotolu, A. O. *Horticulture for Improved Food Security, Sustainable Environment and National Economic Growth: Proceedings of the 36th Horticultural Society of Nigeria Conference*, Nigeria. 18-22 November, 2018. Lafia: 654-657pp.
- (4) **Oduntan O. B.**, Oduntan A.O. and Ogunmokun R.O, (2019). Effect of Extruded Plantain Peel-Based Fish Feed Diet on Growth Performance and Nutrient Utilization of Catfish (*Clarias Gariepinus*). In: Bochtis, D., Aidonis, D., Lampridi, M. and Kateris, D. *Sustainable Decisions in Bio-economy: Proceedings of XXXVIII CIOSTA & CIGR V International Conference*, Greece. 24-26 June, 2019. Rhodes Island: 17-22pp.
- (5) **Oduntan, O. B.** and Bamgboye, A. I. (2019). Effect of Extrusion Conditions on the Throughput of Extruder for the Production of Pineapple Pomace Based Fish Feed. In: Bochtis, D., Aidonis, D., Lampridi, M. and Kateris, D. *Sustainable Decisions in Bio-economy: Proceedings of XXXVIII CIOSTA & CIGR V International Conference*, Greece. 24-26 June, 2019. Rhodes Island: 23-28pp.
- (6) Oyedeji, E. O., Oduntan, A. O., Egbekunle, K. O. and **Oduntan, O. B.** (2020). Antioxidant and Antimicrobial Properties of Orange Pomace Extract. In:----- *Sustainable*

Horticulture Production System Intensified: Proceedings of the 38th Annual Conference of Horticultural Society of Nigeria (Hortson), 25-31 October, 2020. Nnsuka: 847-851pp.

- (7) **Oduntan, O. B.**, Bamgboye A. I., Adekunle, S. A., and Oduntan A. O. (2021). Effects of die size, date inclusion, and die thickness on extrudates mechanical properties. In: Trzyniec, K., Remigio Berruto, R. Bochtis, D., Quendler, E., and Filipiak-Florkiewicz, A. *Agricultural systems management in times of globalization: Proceedings of XXXIX CIOSTA & CIGR V International Conference*, 28 June 2021. Krakow
- (b) Peer reviewed Journals
- (8) **Oduntan O. B.**, Koya, O. A., Faborode, M. O. and Oduntan, A. O. (2012). The Performance Evaluation of a Cassava Pelletizer. *International Organization of Scientific Research: Journal of Mechanical and Civil Engineering*. Vol. 2. No. 5: 20-24.
- (9) **Oduntan, O. B.**, Koya O. A. and Faborode, M. O. (2014). Design, Fabrication and Testing of a Cassava Pelletizer. *Research in Agricultural Engineering* Vol. 60. No. 3: 148-154.
- (10) **Oduntan O. B.** and Koya, O. A. (2015) Effect of Speed, Die Sizes and Moisture Contents on Durability of Cassava Pellet in Pelletizer. *Research in Agricultural Engineering* Vol. 61. No. 2: 35-39.
- (11) **Oduntan, O. B.** and Bamgboye, A. I. (2015). Optimization of Extrusion Point Pressure of Pineapple Pomace Based Mash. *Agricultural Engineering Int: CIGR Journal* Vol.17. No. 2:151-159.
- (12) **Oduntan O. B.** and Omitoyin, B. O. (2015): Wear of disc mill hammer in wet grinding processes on groundnut cake for fish feed production. *Research in Agricultural Engineering* Vol. 61 No. 3: 162–169.
- (13) Kareem O. K., Ajani E. K., Akintunde M. A., Olanrewaju A. N. and **Oduntan O. B.** (2017). Effect of Different Fertilization and Egg De-adhesion Methods on Hatching and Survival of *Clarias gariepinus* (Burchell 1822) Fry. *Journal of Fisheries Sciences* Vol. 11. No. 1: 21-27.
- (14) Oguntade, O. A., Odusanya, O. A., Olagunju, S. O., **Oduntan, O. B.**, Adewusi, K. M. and Adegoke, A. T. (2017). Residual Effect of Composted Poultry Manure on Yield and Bioaccumulation of Iron, Zinc, Lead and Cadmium in Tissues of Common Cockscob (*Celosia Argentea* L.) Grown on Soils from Waste Dumpsite and Farmland. *African Journal of Agriculture Technology and Environment*, Vol. 6. No.1: 79-88. (Nigeria)
- (15) **Oduntan, O. B.** and Bamgboye, A. I. (2017). Influence of Moisture Content on Some Engineering Properties of Pineapple Pomace Based Mash. *African Journal of Food Science* Vol. 11. No. 10: 330-336. (Kenya)
- (16) **Oduntan, O. B.**, Bamgboye, A. I., Ojekunle, E. I. (2018). Design of Experiments Optimisation Study on the Fat Coating Machine for Extruded Fish Feed. *Horticulture International Journal* Vol. 2. No. 6: 1–4. (USA)
- (17) **Oduntan, O. B.**, Ajani, E. K., Omitoyin, B. O. (2019). Optimisation of Loading Capacity of Smoking Kiln on Drying Characteristics of Catfish (*Clarias gariepinus*). *Agricultura Tropica et Subtropica*, Vol. 52. No. 1: 9–17.

- (18) **Oduntan, O. B.**, Bamgboye, A. I. (2019). Specific Mechanical Energy Consumption of Extrusion of Pineapple Pomace Based Fish Feed JAET-CIGR
- (18) Adedotun Temitope Adegoke, A. T., Olowu, B. E., Lawal, N. S., Odusanya, O. A., Banjo, O. B., **Oduntan, O. B.**, Odugbose, B. D. (2020). The Impact of Cassava Wastewater from Wet Fufu Paste Processors on Surrounding Soils: A Case Study of Ayetoro, Ogun State, Nigeria. *Journal of Degraded and Mining Lands Management* Vol. 7. No. 4: 2319-2326
- (19) **Oduntan, O. B.** and Bamgboye, A. I. (2020). Development of Single Screw Extruder for the Production of Pineapple Pomace Fish Feed. *Agricultural Engineering Int: CIGR Journal* Vol. 22. No. 4:157-165.
- (20) **Oduntan, O. B.** and Oluwayemi, B. J. (2021). Optimization of a Clay-Slate Fluidized Bed Dryer for Production of Fish Feed. *Malaysian Journal of Sustainable Agriculture* Vol. 5. No. 2:72-78.
- (21) **Oduntan, O. B.**, Bamgboye, A. I., Oladimeji, O. J. (2022). Influence of Pelletizing Conditions on Fabricated System Performance, Physical and Mechanical Properties of a Cassava Flour Based Fish Feed. *Jurnal Kejuruteraan*: Vol. 34 (3)

XII Major Conferences Attended with Paper Read (in the last 5 year)

- 1) 2nd Annual International Conference on Global Food Security. Ithaca, New York, USA. 11–14 October, 2015.

Paper read: (i) *Antioxidant, Antinutrient and Sensory Evaluation of Orange Pomace Based Biscuit*
(ii) *Antinutrient, Antioxidant and Sensory Evaluation of Pineapple Pomace Based Biscuit*

- 2) 7th International Conference on Aquaculture and Fisheries, Rome, Italy. October 19-21, 2017

Paper Read: *Effect of Processing Parameters on the Physical Properties of Pineapple Pomace Based*

- 3) 1st Engineering Conference Ibarapa Polytechnic, Eruwa, Oyo State, Nigeria. 3-5 July, 2018

Paper read: *The Optimization of Loading Capacity of CORAF/WECARD Smoking Kiln.*

- 4) 38th CIOSTA and CIGR V International Conference, on “Research and Innovation for the Management of Agricultural and Forestry Systems” Rodos, Greece, 24-26 June, 2019

Paper read: (i) *Effect of extrusion conditions on the throughput of extruder in the production of pineapple pomace based fish feed*

- (ii) *Effect of extruded plantain peel based fish feed diet on growth performance and nutrient utilization of catfish (clarias gariepinus)*

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20/08/2023

Dr. Oluwafemi Babatunde Oduntan

Date