

OLUWAKEMI ABOSEDE OSUNDERU

(Ero- Phillips)

National: Nigerian; State: Lagos State; Date of Birth: ██████████ 1970; Marital Status: Married

Profile

Oluwakemi Abosedede Osunderu has acquired scientific and technical expertise in biodiversity and ecosystem services with regard to both natural and social sciences while leading work in international and policy processes which form the main elements of the IPBES programme of work. Her over 20 years' research experience spans natural resources management, forest economics and design and implementation of programmes on assessing impact and dependence of ecosystems services and goods businesses on positions of increasing complexity and responsibilities at the Nigeria Natural Medicine Development Agency (Federal Ministry of Science and Technology), Federal College of Complementary and Alternative Medicine (Federal Ministry of Health), National Open University of Nigeria and the Forestry Research Institute of Nigeria (Federal Ministry of Environment). These positions involved communicating, promoting and incorporating science into Government policy and development processes.

Oluwakemi has been involved with activities with IPBES since 2018, she still represents her Institution (Forestry Research Institute of Nigeria) at IPBES. She has also contributed to reviews. Oluwakemi had a poster presentation titled 'Integrating Ecosystem Services into Disease Treatment protocols in Nigeria' during stakeholders meeting and the IPBES#7 in Paris, France from the 28th April to 4th May, 2019. She is currently registered on IPBES platform as an external reviewer of the first order draft chapters in the IPBES thematic assessment of the interlinkages among biodiversity, water, food and health (nexus assessment). She has been able to lead and work at international scientific and policy processes as a policy Consultant at the World Bank Group and other International donor funded projects.

WORK EXPERIENCE

- **Forestry Research Institute of Nigeria (FRIN), Federal Ministry of Environment– Ibadan, Oyo State Nigeria.**

Principal Research Fellow

- Delegate to the National Strategy for Competitiveness in Raw Materials and Products and Products Development for food security and health in Nigeria.
- Coordinator, project on Biodiversity and Ecosystem services on human health. Works with other team members to provide provisional agendas for meetings.
- Plenary Lead on design and implementation of programmes on assessing impact and dependence of ecosystems services and goods businesses on biodiversity.
- Team Lead, Lagos agroforestry and reclamation project with the Lagos State government by coordinating programmes on linking agro forestry and health.

Federal College of Complementary and Alternative Medicine (Federal Ministry of Health)–Abuja, Nigeria.

Senior Medical Scientist (2008 – 2018)

- Chair on development of strategic work plan on complementary and alternative medicine with a variety of stakeholders, and implementation of quick response to a wide variety of relevant opportunities through careful prioritization.
 - Chair, committee on inclusion of indigenous medical practices and medicinal plants in primary health care across the 6 geopolitical zones in Nigeria., while documenting and publicising the gains made in Traditional Medicine across Nigeria.
 - Provided technical assistance and led meetings on the incorporation of innovation policies on Indigenous Local Knowledge for building pathways to food security, address gender inequality and promote sustainable health care delivery system in Nigeria.
 - Successfully applied data to provide evidence of the multi-dimensional nature of the impact and dependence of ecosystems services and goods businesses on biodiversity.
 - Supervised regular periodic data collection on nature's contribution to people and the dependency of business on biodiversity from the association of herbal medicine sellers across the six geopolitical zones of Nigeria.
 - Directed R&D efforts and designed programs for innovation and sustainability of integrated healthcare delivery system in Nigeria involving indigenous knowledge and practices.
 - Coordinated the development and design of training manuals geared towards strengthening the capacity of traditional Medicine Practitioners (TMPs) and promptly reported on their knowledge, Attitude and Practice (KAP) on biodiversity utilization and businesses.
 - Supervised the conduct of Health Surveys and methodological assessment on Pregnant women attending Antenatal Clinic in selected hospitals within the Federal Capital Territory (FCT) and maintained regular technical reports on output and outcomes of all activities to demonstrate the importance of adopting a multi-sectoral and integrated development approach to healthcare interventions thus encouraging the documentation of indigenous knowledge.
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- **Nigeria Natural Medicine Development Agency (Federal Ministry of Science & Technology) –Lagos, Nigeria.**

Senior Research Officer, 2002 to 2007

Research Officer 1, 1999 to 2002.

Acting Team Lead, leading Training and research programs targeted at food security, quality health care and climate change mitigation activities.

- Supervised the programme on the strengthening of the capacity of Traditional Birth Attendants from Lagos and Ogun States by designing training manuals to emphasis the impact of nutrition and healthy feeding habits on safe motherhood leading to reduction in infants /maternal mortality in Nigeria. (Funded by the Ford Foundation and UNESCO)

- Contributed to the Local dietary supplements production from medicinal plants found and cultivated in Southwest Nigeria (Funded by RMRDC).
- Contributed to successful investigation of pesticide plants that can be used to preserve food crops, stored grains and insect repellents thereby promoting food security in Nigeria. (Funded by the Ford Foundation and UNESCO).
- Co-Chair on production and disseminating of reports on indigenous local Knowledge for healthcare in Nigeria.
- **GEF financed Nigeria PCB Management Project funded by the World Bank Group, Environmental and Social Consultant (2013-2014)**

Led, directed, wrote and presented report on the identification and assessing of sites for possible interim storage of Polychlorinated Biphenyl (PCB) oils and PCB contaminated equipment under Nigeria PCB management project.

Research Project Highlights:

- Designed the research protocols for selected ecological sites in the six geopolitical zones of Nigeria. Sites visited included; Ijora and Gbaja in Lagos State, Kotongora (Niger State), Kaduna and Oji River (Anambra State). The design included questionnaires design, impact evaluations including randomized controlled trials at the selected sites to determine the impact of this harmful chemical on biodiversity and ecosystem services and goods.
- Led work on rigorous impact evaluation of the effects of PCB containing equipment (old transformers) on the soil and water on farm lands and socioeconomic activities of people living at the ecological sites visited.
- Recorded a successful account of findings, published and submitted a well-articulated report to the World Bank.
- Created awareness of the dangerous impacts of PCBs to the ecosystems and food/economic security to stakeholders and policy makers at a stakeholders' meeting in Abuja, Nigeria.

- **Federal Livestock Department, Federal Ministry of Agriculture, Agege Field Office, Lagos**

Veterinary Quarantine Officer

NYSC Jan 1998 – Jan 1999

- Inspection and evaluation of safety for ecosystem services and goods exported out of Nigeria and the issuance of sanitary certificates.
- Provision of quarantine information and advisory services for exporters and farmers at the export section of the Murtala Mohammed International Airport (NAHCO), Ikeja, Lagos, Nigeria.

- **Fauna Resources, Lagos**

Independent Television Producer and Editor on 'One Health'

1997-1998

- Founded the television show 'Animals and You' to provide industry and best practice advice to farmers and other stakeholders on 'One Health'. The programme was aired on NTA Channel 10.
- Managed the Editorial and Production team to provide enlightenment for livestock farmers on best agricultural practices, transboundary livestock diseases and the health of our food systems.

Health Facilitator/NGO Support/ Hermon Development Foundation (Part Time)

2007 - 2021

- Designed, tested and developed guide for sustainable healthcare delivery interventions based on indigenous knowledge and services for women and children at Ado Odo/ Ota Local Government Area in Ogun State from 2017 to 2021
- Team Lead, Development and Testing of Appropriate Campaign messages, tools and materials to promote effective healthcare delivery, education, social and behavioural change towards immunization and inclusion of indigenous balanced feeding especially the inclusion of *Parkia biglobosa* (Local locust bean) and *Moringa oleifera* in diets of children and nursing mothers in Keana LGA, Nasarawa State. Funded by the Federal Government of Nigeria.
- Partner, Fauna and Flora Flourish Farms, Ogunedo Village, Ado-Odo LGA and mentoring of women and girls within the locality. All activities were promptly reported and documented.
- Evaluation of Nursing students' abilities in carrying out surveys leading to their enhanced capacities to carry out independent projects on Maternal and Child Health and Healthcare Standards at the National Open University of Nigeria.

2. RESEARCH AND PUBLICATIONS

SOME PUBLICATIONS

- Medicinal and Economic Values of Forest Products in the Treatment of Cancer in Southwest Nigeria: Oluwakemi Osunderu* DOI: 10.19080/JTMP.2017.02.555582.
<https://juniperpublishers.com/jtmp/volume2-issue2-jtmp.php>.
- Elderly Abuse and Care of the Aged in Nigerian Society: A case Study of Old People's Home, Yaba, Lagos, Nigeria. Journal of Gerontology and Geriatrics Studies. Crimson Publishers. ISSN 2578-0093.
- Sustainable Production of Traditional Medicine in Africa; Appropriate Technologies for Environmental Protection in the developing World. pp 45 – 51. Editor-Ernest K Yanful. Publisher: Springer, 2008
- The Evaluation of Sialoglycoprotein level in the in the Erythrocytes of the West African Dwarf Goat Published. Journal of Applied Animal Research 20 (2001): 125 – 128.

- Hermon Health News; A Periodic Bulletin on Nutrition and Food Security. Publisher: Hermon Development foundation, Ifo, Ogun State.
- Osunderu, O A. (2018). Plant Resource Management Programme for Cancer in the six Geopolitical zones of Nigeria. 215pp. (Federal Ministry of Health, Abuja, Nigeria) (Contribution: 40%).
- Medicinal and Economic Values of Forest Products in the Treatment of Cancer in Southwest Nigeria: Oluwakemi Osunderu* DOI: 10.19080/JTMP.2017.02.555582. <https://juniperpublishers.com/jtmp/volume2-issue2-jtmp.php>.
- Herbal Medicine: 'A Key Driver towards Green Economy in Southwest Nigeria Journal/Publisher: Forestry Association of Nigeria 2018
- Fostering Health Security Through Biodiversity: A Case Study from Ogun and Lagos States, Nigeria: The Food Security, Biodiversity, and Climate Nexus. pp 279 - . Editor- M. Behnassi et al. Publisher: Springer 2022 https://doi.org/10.1007/978-3-031-12586-7_5
- Medicinal Plants and the challenges of Climate to Health Security in Nasarawa State, Northwest Nigeria:Sustainable Uses of Medicinal Plants and Prospects' L. Kambizi et al. Publisher: CRC/ Taylor and Francis. **In-view**

3. Language Proficiency: English, Yoruba, Hausa and French.

4. Competence in the use of standard Microsoft Office applications (Word, Excel, Access, and PowerPoint).

- **ACADEMIC QUALIFICATIONS**

ACADEMIC QUALIFICATIONS

MPH (Masters in Public Health)	Field Epidemiology	University of Ibadan	Oyo State	Nigeria	In-view
PhD	Forest Economics & Management.	Federal University of Agriculture, Abeokuta	Ogun State	Nigeria.	13 th December, 2016
MSc	Pharmacology	University of Lagos	Lagos State	Nigeria	24 th June, 2004
(DVM)Doctor of Veterinary Medicine	Veterinary Medicine	University of Ibadan	Oyo State	Nigeria	7 th March, 1997

SSCE	Senior School Certificate	Federal Government Girls College, Akure	Ondo State	Nigeria	18 th June, 1988
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• **PROFESSIONAL QUALIFICATIONS AND DIPLOMAS**

23 th – 27 th Feb. 2004	Short Course on Research Methodology	National Postgraduate Medical College of Nigeria	Lagos, Nigeria
23 th – 27 th May, 2005	Course on Design and Evaluation of Innovation Policy in Developing countries (DEIP)	United Nations University, UNU – INTECH (Institute for New Technologies)	Maastricht, Netherlands.
29 th Jan – 19 th Feb 2006	Capacity training Course on Human African Trypanosomiasis (HAT).	WHO/TDR, UNDP	Kenya and Uganda
25 th -26 th January 2007	Workshop on course material Development & Impact Evaluation organized by RETRIDAL FOR-SST and NOUN	National Open University of Nigeria	Lagos, Nigeria.
4 th – 9 th June, 2007	Democratic Leadership Training Workshop	Africa Leadership Forum	Ota, Ogun State, Nigeria
4 th – 5 th October ,2007	Continuing Education Seminar , Theme” The veterinary Surgeon in National Emergencies	Veterinary Council of Nigeria (VCN).	Lagos, Nigeria
22 nd – 26 th July, 2013	2013 Malaria Workshop: Research, Training and Cooperation for sustainable Control of	Italian Malaria Network and WHO	University di Camerino and Perugia, Italy.

	Malaria: A multi-disciplinary & multi-cultural approach		
Sept. 18 th -21 st , 2014	Connection & Collaboration Innovations in Patient-Centered Care	The American Holistic Medical Association	Minneapolis, MN, USA
February, 6 th - 10 th , 2017	The Project for Capacity Building of e-Government in Nigeria.	Korea International Cooperation Agency (KOICA)	Abuja, Nigeria
May, 30 th –June 8 th , 2017	Project Planning and Development Course	Korea International Cooperation Agency (KOICA)	Abuja, Nigeria
August, 1 st – 10 th , 2018	Course on Biological Analysis and Biological Techniques.	Federal College of Complementary, (Fed. Ministry of Health), Abuja.	Abuja, Nigeria
August, 13 th – 15 th , 2018	Course on Ethno-Botanical Statistics	Federal College of Complementary, (Fed. Ministry of Health), Abuja.	Abuja, Nigeria
January 21 st – 25 th 2019	Biodiversity Data Management and Usage.	Global Biodiversity Information Facility (Nigeria).	FRIN, Ibadan, Nigeria.
March 25 th - 6 th June, 2020	WHO-TDR Course on Implementation Research (IR) with a focus on Infectious Diseases of Poverty (IDP)	University of Ghana School of Public Health & the Special Programme for Research and Training in Tropical Diseases (WHO-TDR)	MOOC
November 5 th – 13 th November, 2020	Certificate in Formulation & Packaging of Herbal Medicines	African Centre of Excellence for Drug Research, Herbal Medicine Development and Regulatory Science (ACEDHARS), University of Lagos.	University of Lagos. Nigeria

April 5 th – 20 th June, 2021	Fundamentals of Global Health research	University of Washington Global Health E-Learning.	University of Washington, Washington, USA
April 15 th – 13 th June, 2021	Leadership and Management in Health	University of Washington Global Health E-Learning	University of Washington, Washington, USA
January 10 th – 14 th , 2022.	Research and Animal Ethics Training	NITDA IT HUB, UNILAG	University of Lagos.

- **MEMBERSHIP OF LEARNED SOCIETIES**

- Nigerian Veterinary Medical Association (NVMA).
- American Integrative & Holistic Medical Association (AIHM).
- Society for Medicinal Plants and Economic Development(SOMPED).
- GA-Society for Medicinal Plant Research (Gassellschaft fur Arzneipflanzenforschung).
- International Society for Infectious Diseases (ISID).
- Forestry Association of Nigeria (FAN)

- **WORK EXPERIENCE**

- **World Bank Health Impact Assessment for Air Quality Management in Lagos, Nigeria.**

Local Consultant (May2021 – June 2021).

- Review of existing PMEH documentation and reports, collection of local data, control and preparation of local data for statistical analysis.
- Evaluation of the data to indicate how data gaps should be addressed, and any associated assumptions or shortcomings especially, the estimation of missing data (mortality in specific section of the population and cause of deaths).
- Help to assess existing institutional and policy framework for health impact assessment and health monitoring for air pollution.

- **Forestry Research Institute of Nigeria (FRIN), Federal Ministry of Environment–Ibadan, Oyo State Nigeria.**

Principal Research Fellow (2018 – 2020).

- Coordinator, project on Biodiversity and Ecosystem services on human health by working in effective partnerships with relevant counterpart teams in Nigeria, as well as

the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem so as to achieve the mandates and the objectives of the organization.

- Other responsibilities include: building collaborations at local, national and international level on environmental health, pollution control, agro forestry and health; coordination and research on formulation, implementation, monitoring and evaluation of integrated health programmes in nutrition and food security for women and children living on the Forest Reserves in the six geopolitical zones in Nigeria.

- **Technical Assistant to the Commissioner, Lagos State Ministry of Health on Environmental Health, One Health, Biodiversity and Alternative Medicine. (2019 – 2020).**

- Contributed to the achievement of the Lagos State's THEMES' mandate on environment and health by carrying out analytical work and related assignments.
- Assisted to project international best practices on program management approaches and research techniques pertaining to my scope of work.
- Coordinated the nomination of members and chairpersons to the various boards of the Lagos State Ministry of Health.
- Interfaced with the Directors/ Heads of Departments of the Lagos State Ministry of Health on behalf of the Honourable Commissioner Lagos State Ministry of Health.
- Represented the Honourable Commissioner Lagos State Ministry of Health on Lagos PMEH related issues with officials of the Lagos State Ministry of Environment and other relevant agencies and parastatals.

- **Federal College of Complementary and Alternative Medicine (Federal Ministry of Health)–Abuja, Nigeria.**

Principal Veterinary Officer- CONMESS_GL 5 (2018).

Senior Medical Scientist- CONMESS_GL 4 (2008 – 2015)

- Represented the Federal Ministry of Health (FMOH) under the Lagos PMEH/AQM analytical work. My activities on the team included: a review of existing PMEH documentation and reports, collection and evaluation of data collected locally. Also, contributed to a process of review of existing institutional and policy framework for health impact assessment and health monitoring for air pollution in Lagos State which was compared to other states in Nigeria and other countries like Italy.
- Successfully applied data analysis to provide evidence of the multi-dimensional nature and effects of malnutrition on healthcare delivery and productivity of Nigerians.
- Supervised periodic data collection on primary Healthcare and Communicable Diseases across the six geopolitical zones of Nigeria. Directed R&D efforts and designed programs for innovation and sustainability of integrated healthcare delivery system in Nigeria.
- Coordinated the development and design of training manuals geared towards strengthening the capacity of traditional Medicine Practitioners (TMPs) and promptly reported on their knowledge, Attitude and Practice (KAP).

- Supervised the conduct of Health Surveys and analyses on Pregnant women attending Antenatal Clinic in selected hospitals within the Federal Capital Territory (FCT) and maintained regular technical reports on output and outcomes of all activities to demonstrate the importance of adopting a multi-sectoral and integrated development approach to healthcare interventions.

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- Led work on rigorous impact evaluation of the effects of PCB containing equipment (old transformers) on the soil and water on farm lands and people living at the sites visited.
- Recorded a successful account of findings, published and submitted a well-articulated report to the World Bank.
- Created awareness of the dangers of PCBs to farmlands and food security to stakeholders and policy makers in Nigeria.

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- Contributed to successful investigation of pesticide plants that can be used to preserve food crops, stored grains and insect repellants thereby promoting food security in Nigeria. (Funded by the Ford Foundation and UNESCO).

- **Health Facilitator/NGO Support/ Hermon Development Foundation (Volunteer) 2007 - 2020**

- Designed, tested and developed guide for sustainable healthcare delivery interventions by Hermon Development Foundation, an NGO, for women and children at Ado Odo/ Ota Local Government Area in Ogun State.
- Team Lead, Development and Testing of Appropriate Campaign messages, tools and materials to promote effective healthcare delivery, education, social and behavioral change

towards immunization and inclusion of indigenous balanced feeding especially the inclusion of *Parkia biglobosa* (Local locust bean) and *Moringa oleifera* in diets of children and nursing mothers in Keana LGA, Nasarawa State. Funded by the Federal Government of Nigeria.

- Partner, Fauna and Flora Flourish Farms, Oguntedo Village, Ado-Odo LGA and mentoring of women farmers within the locality. All activities were promptly reported and documented.
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- **Federal Livestock Department, Federal Ministry of Agriculture, Agege Field Office, Lagos.**

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- **Fauna Resources, Lagos**

Independent Television Producer and Editor

1997-1998

- Founded the television show 'Animals and You' to provide industry and best practice advice to farmers and other stakeholders. The programme was aired on NTA Channel 10.
- Managed the Editorial and Production team to provide enlightenment for livestock farmers on best agricultural practices and transboundary livestock diseases.
- **Language Proficiency:** English, Yoruba, Hausa and French with competence in the use of standard Microsoft Office applications (Word, Excel, Access, Stata and PowerPoint).
- **Other Skills:** Very good communication skill, strong work ethic, adaptability, well focused, team player with a very good knowledge of the institutional organization of the health system in Lagos State.

• **SOME PUBLICATIONS**

- Medicinal and Economic Values of Forest Products in the Treatment of Cancer in Southwest Nigeria: Oluwakemi Osunderu* DOI: 10.19080/JTMP.2017.02.555582. <https://juniperpublishers.com/jtmp/volume2-issue2-jtmp.php>.
- Elderly Abuse and Care of the Aged in Nigerian Society: A case Study of Old People's Home, Yaba, Lagos, Nigeria. Journal of Gerontology and Geriatrics Studies. Crimson Publishers. ISSN 2578-0093.
- Sustainable Production of Traditional Medicine in Africa; Appropriate Technologies for Environmental Protection in the developing World. pp 45 – 51. Editor-Ernest K Yanful. Publisher: Springer, 2008
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REFERENCES

- Prof. Adegboyega Aduradola
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Ogun State, Nigeria.
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College of Medicine, University of Lagos.
Idi-Araba, Lagos, Nigeria
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Redeemers' University of Nigeria,
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Ogun State, Nigeria.
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