

## Osondu Christopher Akoma

Benson Idahosa University, Benin City, Edo State, Nigeria

<https://scholar.google.com/citations?user=NYPg4csAAAAJ&hl=en>

<https://www.researchgate.net/profile/Akoma-Christopher>

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oakoma@biu.edu.ng

### Personal Data

**Place and Date of Birth:** 16/12/1969, Azumini Ndoki, Abia State

**State of Origin:** Abia

**Home Address:** #17 Moses Obasuyi Street, Off Ugbor Road, GRA Benin City

**Marital Status:** Married

**Number and age of children:** 1 son (18 years)

**Nationality:** Nigerian

**E-mail Addresses:**

[osonduakoma@yahoo.com](mailto:osonduakoma@yahoo.com) [chrisoakoma@gmail.com](mailto:chrisoakoma@gmail.com)

## CURRENT APPOINTMENT

### **Professor of Limnology/Algology, October 2017 to date**

Department of Biological Sciences (Microbiology option)

Benson Idahosa University, Benin City, Edo State, Nigeria

## EDUCATIONAL QUALIFICATION

Ph.D. Botany	(2004)	University of Benin, Benin City, Edo State
M.Sc. Botany	(1999)	University of Benin, Benin City, Edo State
B.Sc. (Hons) 2 <sup>2</sup> , Botany	(1990)	University of Benin, Benin City, Edo State
WASC/GCE O'level	(1986)	Ascension Junior Seminary, Asa, Abia State
FSLC	(1981)	Hospital Road Primary School, Aba, Abia State

## ACADEMIC EXPERIENCE

### **Associate Professor October 2014 – September 2017**

Department of Biological Sciences (Microbiology option)

Benson Idahosa University, Benin City, Edo State, Nigeria

### **Research Adviser (Sabbatical) January to December 2015**

Environment Department

Shell Petroleum Development Company of Nigeria

Port Harcourt, Rivers State, Nigeria

### **Senior Lecturer October 2011 to September 2014**

Department of Basic Sciences (Microbiology option)

Benson Idahosa University, Benin City, Edo State, Nigeria

### **Lecturer I October 2009 to September 2011**

Department of Basic Sciences (Microbiology option)

Benson Idahosa University, Benin City, Edo State, Nigeria

### **Assistant Professor October 2006 to September 2008**

Department of Biology

Bahir Dar University, Ethiopia

**Lecturer II 2005 to 2006**

Department of Basic Sciences (Microbiology option)

Benson Idahosa University, Benin City, Edo State, Nigeria

**PROFESSIONAL EXPERIENCE BEFORE UNIVERSITY APPOINTMENT**

- (i) Assistant Collection Manager, Abiapalm Nigeria Ltd., Ukwu. 1998-2001. Abiapalm is an Abia State Government owned Oil Palm plantation and processing Corporation.
- (ii) Plantation Supervisor, Abiapalm Nigeria Ltd. Ukwu, 1992-1998.
- (iv) Biology Teacher, Command Secondary (High) School, Abakaliki, Ebonyi State. (National Youth service Corps), 1990-1991.

**AREAS OF SPECIALIZATION**

- Marine Environmental Management and Blue Economy
- Pollution Monitoring and Algal Bioremediation
- Limnology/Algal Systematics
- Water Quality Assessment
- Hydrobiology and Hydrogeography

**ACHIEVEMENTS AND AWARDS**

- i. Certificate of Achievement (Distinctions Plus) in Artificial Intelligence (AI) for successful completion of 13-week practical training on Artificial Intelligence (AI) for Teaching, Research and Community service, January 22<sup>nd</sup> to April 26<sup>th</sup>, 2024. Awarded by National Universities Commission in partnership with National Open University of Nigeria (under the auspices of the NUC Strategy Advisory Committee) and the Virtual Institute for Capacity Building in Higher Education (VICBHE).
- ii. Certificate of Merit, Training Course on Practical Skills for Delivering CCMAS in an Online Learning Environment, June 14<sup>th</sup> to August 15<sup>th</sup> 2023. Awarded by Virtual Institute for Capacity Building in Higher Education (VICBHE) in collaboration with the national Universities Commission (NUC) and National Open University of Nigeria (NOUN).
- iii. Fellow, Freshwater Biological Association of Nigeria (FFBAN) 2021

- iv. Nigeria Legend of Courage Award, 2014 Edition. Award presented by Our Majesty Global Publication, Abuja. In recognition and appreciation of immense contribution towards national development.
- v. Certificate of Service presented by the Directorate of Technical Aid Corps, Ministry of Foreign Affairs for completion of two years Voluntary Service as a technical expert to Bahir Dar University, Ethiopia in the 2006 – 2008 biennium, 2010.

## OTHER APPOINTMENTS OUTSIDE BENSON IDAHOSA UNIVERSITY

### **Chairman,**

Kristalix Agro-Eco Ventures

Agro-allied and Environmental Conservation Company

Azumini-Ndoki, Abia State

## PUBLICATIONS

### **PEER-REVIEWED PUBLICATIONS:**

#### **MAJOR AND REMARKABLE PEER-REVIEWED PUBLICATIONS:**

- 1) **Akoma, O.C.** (2007). Spatial and temporal variations of physico-chemical properties of Imo River estuary, Southeastern Nigeria. *Ethiopian Journal of Science and Technology* 4(2): 37 – 46.
- 2) **Akoma, O.C.** (2007). Phytoplankton flora of Imo River Estuary, Southeastern Nigeria. *Nigerian Journal of Botany* 20(2): 317 – 325.
- 3) **Akoma, O.C.** (2008). Phytoplankton and nutrient dynamics of a tropical estuarine system, Imo River estuary, Nigeria. *African Research Review* 2(2): 253 – 264.
- 4) **Akoma, O.C.** (2008). Nutrient dynamics of Imo River estuary, Southeastern Nigeria. *SINET:Ethiopian Journal of Science* 31(1): 75 – 78.
- 5) Imoobe, T.O.T and **Akoma, O.C.** (2008). Assessment of zooplankton community structure of the Bahir Dar gulf of Lake Tana, Ethiopia. *Ethiopian Journal of Environmental Studies & Management* 1(2): 26-34.
- 6) Wondie, A. and **Akoma, O.C.** (2008). Seasonal Variation of Phytoplankton Biomass in Lake Tana Ethiopia. *Tropical Freshwater Biology* 17(2): 21-31.

- 7) Goraw, G. and **Akoma, O.C.** (2008). Physico-chemical properties and water quality assessment of underground and surface waters of Bahir Dar and peri-urban areas, Ethiopia. *Proceedings of International Conference on Research and Development in Africa*. In Nekang, F.M. (ed.). Pan African Books. Accra. Pp1-8.
- 8) Molindo, W.A., Usifo, A.E. and **Akoma, O.C.** (2009). Physico-chemical analysis of an ultisol polluted with different petroleum products then treated with poultry dropping and later planted with maize in Benin City, Nigeria. *Ethiopian Journal of Environmental Studies & Management* 2(2): 58 – 66.
- 9) Swadesh, P. and **Akoma, O.C.** (2009). Water scarcity within Kandi Block of West Bengal: A hydroecological assessment. *Ethiopian Journal of Environmental Studies & Management*, 2(3): 1 -11.
- 10) Imoobe, T.O.T and **Akoma, O.C.** (2009). Spatial variations in the composition and abundance of zooplankton in the Bahir Dar Gulf of Lake Tana, Ethiopia. *African Journal of Ecology* 48: 72 – 77.
- 11) **Akoma, O.C.** and Imoobe, T.O.T. (2009). Limnological and phytoplankton survey of the Bahir Dar gulf of Lake Tana, Ethiopia. *African Journal of Science and Technology*, 10(2): 91 – 98.
- 12) **Akoma, O.C.** (2010). Hydrobiological survey of the Bahir Dar gulf of Lake Tana. *African Research Review* 4(2): 57 – 70.
- 13) **Akoma, O.C.** and Opute F.I. (2010). Phytoplankton Species from Imo River Estuary, Nigeria. Part I: Pennate Diatoms (Diatomaceae, Eunotiaceae and Naviculaceae). *Nigerian Journal of Botany* 23(2): 343 – 354.
- 14) Goraw, G. and **Akoma, O.C.** (2010). Comparative Study of Physical and Chemical Characteristics of surface and subsurface sourced on-farm research ponds, Ethiopia. *Tropical Freshwater Biology* 19(1): 1 – 10.

- 15) Goshu, G. and **Akoma, O.C.** (2011). Water quality assessment of underground and surface water resources of Bahir Dar and periurban areas, North-West Ethiopia. *Global Journal of Environmental Sciences* 10(1&2): 11 – 21.
- 16) Ekhatior, O., **Akoma, O.C.** and Ogie-Odia, E. (2011). A Comparative Limnological and Water Quality Assessment of some Rivers in Benin City and Peri-urban Areas, Edo State, Nigeria. *Global Research Journal of Microbiology* 1(3): 56 – 61.
- 17) **Akoma, O.C.** and Opute, F.I. (2011). Phytoplankton species from Imo river estuary, Nigeria II: centric diatoms. *Nigerian Journal of Botany* 24(2): 275 – 288
- 18) Alika, F.O. and **Akoma, O.C.** (2012). Preliminary Checklist of Phytoplankton and Periphyton in River Okhuo, Nigeria. *Current Research Journal of Biological Sciences* 4(5): 538-543.
- 19) Ekhatior, O., Opute, F.I. and **Akoma, O.C.** (2014). A Checklist of the Phytoplankton Flora of a Southern Nigerian Lotic Ecosystem. *Current Research Journal of Biological Sciences* 6(1): 1 – 6.
- 20) **Akoma, O.C.**, Goshu, G. and Imoobe, T.O.T. (2014). Variations in Zooplankton Diversity and Abundance in Five Research Fish ponds in Amhara Region, Ethiopia. *Ife Journal of Science* 16(1): 81 – 89.
- 21) Ekhatior, O., Opute, F.I., **Akoma, O.C.** and Mensah, J.K. (2014). Water Quality Assessment of Osse River, Edo State, Nigeria, using Physico-Chemical Parameters. *BIU Journal of Basic and Applied Sciences* 1(1): 88 – 102
- 22) Ozumba, C., **Akoma, O.C.** and Owuamanam, C. (2015). Effective Tree Management and Ecological Sustainability in SPDC Residential Area, Port Harcourt. *Shell World Nigeria* 21(3): 20.
- 23) **Akoma, O.C.** and Chris-Iwuru, W.N. (2016) Potential use of Algae *Microcystis aeruginosa* (Chroococaceae) in Bioremediation. *International Journal of Science and Technology (STECH)*, 5(2): 13-23.

- 24) Usunobun, U., **Akoma, O.C.** and Ekpemupolo I.S. (2016). *In vitro* antioxidant activity, minerals and phytochemical composition of *Amaranthus hybridus* leaves. *BIU Journal of Basic and Applied Sciences*. 2(1): 13 – 23.
- 25) **Akoma, O.C.** and Uhunmwangho, O.S. (2017). Quantitative Estimation of Groundwater and Surface water in Benin City and Environs. *Ethiopian Journal of Environmental Studies and Management*. 10(3): 340 – 350.
- 26) Ajayi, H.I. and **Akoma, O.C.** (2017). Performance and Carcass Characteristics of Broiler Chickens Fed Low Protein Diets Containing Hydrolyzed Meal, with or without Protease Supplementation. *BIU Journal of Basic and Applied Sciences*, 3(1): 20 – 30.
- 27) Ekhaton, O., **Akoma, O.C.** and Omoruyi, O.A. (2018). Classification using Trophic Status Index and Assessment of Aquatic Ecosystem Health of Three Rivers in Southern Nigeria. *Tropical Freshwater Biology*, 28(2): 33 – 47.
- 28) Omorogieva, O. M. and **Akoma, O. C.** (2020). Paleoenvironmental Reconstruction and Age Determination of Sediments from Sheet 288 Benin Flank of Niger Delta Sedimentary Basin, Nigeria. *BIU Journal of Basic and Applied Sciences*, 4(1): 20 – 30.
- 29) Tenumah, J., Sowunmi, M.A. and **Akoma, O.C.** (2022). Ethno-Palynological Study of Some Plants Used By The Itsekiri of Delta State, Nigeria *BIU Journal of Basic and Applied Sciences*, 6(2): 182 – 208.
- 30) Bamanga, Awwal, Bassey, Bassey O. **Akoma, O.C.** (2023). Evaluation of Water Hyacinth (*Eichhornia crassipes* (Mart.) Solms) Infestation in Nigerian Coastal Environment: Sources, Prevalence and Management. *African Journal of Engineering and Environment Research*, 4(2): DOI: <https://doi.org/10.37703/ajoeer.org.ng/q1-2023/07>
- 31) **Akoma, O.C.** (2023). “The Invisible Dancers: Nature’s Life Sustaining Powerhouse in the Aquatic Environment”. 22<sup>nd</sup> Inaugural Lectures Series, Benson Idahosa University, Benin City. ISBN: 978-978-966-7. 42pp.
- 32) Ngwoke, C. A. and **Akoma, O. C.** (2025). Isolation, Screening and Biochemical Identification of Phosphate Solubilizing Bacteria from the Rhizosphere Soil in the Oko,

Ogba Zoo Area of Benin City, Edo State, Nigeria. *Ethiopian Journal of Environmental Studies and Management*. 18(1): 56-67.

## ABSTRACTS/PRESENTATIONS AT NATIONAL AND INTERNATIONAL CONFERENCES

1. 15th Annual Conference of the Botanical Society of Nigeria, University of Uyo, Akwa Ibom State, 4<sup>th</sup> – 8<sup>th</sup> April 2006.
2. 33<sup>rd</sup> Conference of the Nigerian Society for Plant Protection at Ahmadu Bello University, Zaria, Nigeria, 7<sup>th</sup> – 11<sup>th</sup> May 2006.
3. 26<sup>th</sup> Education Conference of Bahir Dar University, Ethiopia. 25<sup>th</sup> – 26<sup>th</sup> May 2008.
4. International Conference on Research and Development in Africa. University of Ghana, Legon. 25<sup>th</sup> – 28<sup>th</sup> November 2008.
5. First African Training/workshop on Algae. University of Benin, Benin City, 2024
6. 20<sup>th</sup> Conference of Botanical Society of Nigeria, Nnamdi Azikiwe University Awka. 6<sup>th</sup> - 9<sup>th</sup> June 2011
7. Maiden Conference of Freshwater Biological Association, University of Benin, 2018
8. 2<sup>nd</sup> Conference of Freshwater Biological Association, Federal University of Technology, Minna, Niger State, 2019
9. Keynote Speaker 4<sup>th</sup> Conference of Freshwater Biological Association, Usmanu Danfodiyo University, Sokoto, 2023
10. Chairman Local Organizing Committee (LOC) 5<sup>th</sup> Conference (Hybrid) of the Society for Forensic and Analytical Scientist Nigeria, Benson Idahosa University, Benin City, 21<sup>st</sup> to 22<sup>nd</sup> November 2023
11. Energy Transition Symposium. Theme: Energy transition in an oil-dependent economy. Organized by Development Agenda, Abuja, 24<sup>th</sup> May 2024.



12. Keynote Speaker, World Environment Day 2024, Nigeria Environmental Society, Edo State.  
Theme: Land restoration, desertification and drought resilience, 5<sup>th</sup> June 2024.
13. Chairman Local Organizing Committee (LOC) 5<sup>th</sup> Conference (Hybrid) of the Freshwater Biological Association of Nigeria, Benson Idahosa University, Benin City, 16<sup>th</sup> -19<sup>th</sup> July 2024.
14. Capacity Building Training on Data Protection for Tertiary Institutions organized by Committee of Vice Chancellors of Nigerian Universities (CVCNU) in collaboration with Association of Licensed Data Protection Compliance Organization of Nigeria (ALDAPCON), Abuja, 22<sup>nd</sup> -23<sup>rd</sup> October 2024.

### PROFESSIONAL MEMBERSHIP

- ❖ International Psychological Society (Membership no. 00289590), 2004.
- ❖ Botanical Society of Nigeria, 2006.
- ❖ Nigerian Society for Plant Protection, 2006.
- ❖ African League for Research and Development, 2010.
- ❖ Psychological Society of Nigeria 2011
- ❖ Freshwater Biological Association of Nigeria 2018

### EXTERNAL EXAMINERSHIP

University	Degree	No. of students	Date
Federal University of Technology, Minna	Ph.D	1	2024
University of Benin, Benin City	Ph.D	1	2023
University of Gour Banga, Malda, West Bengal, India	Ph.D (Hydrogeography)	1	2017
University of Benin	M.Sc. (Botany)	15	2023
Federal University of Technology, Minna	MTech (Hydrobiology)	3	2019

**POSTS HELD/MEMBERSHIP OF COMMITTEES IN BENSON IDAHOSA UNIVERSITY**

- a) Dean of Students Affairs, Benson Idahosa University, August 2023 to date
- b) Director ICT, Benson Idahosa University, Benin City, July 2018 to September 2024
- c) Dean, Faculty of Science, Benson Idahosa University, Benin City, 2017 to 2020
- d) H.O.D., Department of Basic Sciences. November 2016 to August 2017
- e) Director Academic Planning, January 2012 to December 2015

**2. Service on University Committees**

- a) Chairman Cafeteria and Utilities Committee, January 2025
- b) Chairman Committee on Communication Protocol in Halls of Residence, January 2024
- c) Chairman, Intervention Taskforce for Excellent Student Experience March 2024 to date
- d) Chairman Resumption Guidelines Committee, July 2024
- e) Chairman, University Pre-accreditation Committee 2021 to date
- f) Chairman, University ICT Committee 2019 to 2024
- g) Chairman, University Webometric Committee 2019 to 2024
- h) Chairman, Risk Management Committee 2019 to 2024
- i) Member Committee on Review of School Fees, January 2024
- j) Member Committee of Principal Officers, Deans and Directors January 2012 to date
- k) Member Benson Idahosa University Senate, 2012 to date

- l) Member University Admissions Board, January 2012 to 2024
- m) Member University Programmes Rationalization Committee, September 2012
- n) Member University Extended Programmes Committee, 2020 to date
- o) Member University Part-time Committee, September 2013 to date
- p) Member Research Development & Institutional Advancement Committee, January 2014

### PROFICIENCY COURSES COMPLETED AND CERTIFICATIONS OBTAINED AT SPDC IN 2015

S/No.	Course Title	Course Id.	Date of Completion
1.	Safeguarding Information [DNE]	00156304	27/01/2015
2.	Anti-Bribery Principles [DNE]	00011133	09/02/2015
3.	Conflict of Interest [DNE]	00011134	11/02/2015
4.	Code of Conduct	00002741	23/02/2015
5.	GRM Awareness [DNE]	00016652	07/04/2015
6.	Biodiversity and Ecosystem Services [DNE]	00173747	13/05/2015
7.	Impact Assessment e-learning [DNE]	00016020	08/06/2015
8.	Survival Swimming Certification with PFD & PPE CN2015070132		08/07/2015
9.	Data Privacy Knowledge Training [DNE]	00015211	07/09/2015
10.	Medical Emergency Response – First Response Training [DNE]	00012999	26/10/2015

### CONSULTANCY AND SPECIAL SERVICES TO RELEVANT PUBLIC BODIES

- Visiting Limnologist, Amhara Regional Agricultural Research Institute, Bahir Dar, Ethiopia. January 2007 – August 2013.

- Member, Nigeria/Republic of South Africa Economic Summit Group, Sub-Committee on Trade and Bilateral Relation. Johannesburg, South Africa. May 2013
- Subject Area Specialist/Consultant, Nigerian Maritime and Administration and Safety Agency (NIMASA) on Marine Protected Areas 2021 to date
- Chairman, National Universities Commission Accreditation Team for Biology/Biotechnology Team, Programme Joseph Saruwan University Markurdi, Benue State, 2021
- President, Phycological Society of Nigeria, 2019 to date
- Secretary, Freshwater Biological Association of Nigeria 2018 to date

## EDITORIAL AND PEER- REVIEW WORK

- Editor-in-Chief, BIU Journal of Basic and Applied Sciences - Journal of Faculty of Science, Benson Idahosa University. January 2022 to date.
- Database Administrator/Webmaster, Ethiopian Journal of Environmental Science and Management, Bahir Dar University Bahir Dar, Ethiopia. October 2015 to date.
- Editor and Member of Advisory Committee, African Journal of Health, Safety and Environment, University of Benin. October 2019 to date.
- Editorial Board Member, International Journal for Agriculture, Science and Technology
- Reviewer Ethiopian Journal of Science and Technology – a university wide journal of Bahir Dar University, Ethiopia.
- Reviewer, International Journal of Biodiversity and Conservation
- Reviewer, Journal of Water, Sanitation and Hygiene for Development

## HOBBIES

Swimming, reading and listening to soul edifying music.

## REFEREES

**Professor Fred. O. J. Oboh**  
Benson Idahosa University  
Benin City  
08036677636

**Prof. M. O. Kadiri**

Department of Plant Biology and Biotechnology  
University of Benin  
08023404118

**Ven David O. Egbenusi**

Chaplain  
All Saints' Chapel  
University of Benin  
08063818780



**Prof. Osondu Akoma**