

# ADEBAYO, Adebisi Samuel

## AFFILIATION

Department of Physics,  
Faculty of Science,  
University of Medical Sciences,  
Ondo State, Nigeria.

**Tel:** +2348036839705

**E-mail:** asadebayo@unimed.edu.ng

aadebayoresearch@gmail.com

## MAILING ADDRESS

P.M.B. 536

University of Medical Sciences,  
Ondo State, Nigeria.

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## EDUCATION

**Obafemi Awolowo University, Ile-Ife, Nigeria**

Master of Science, Physics (Geophysics Option), July 2014

**Federal University of Agriculture, Abeokuta, Nigeria**

Bachelor of Science, Physics, April, 2010

## RESEARCH INTEREST

Hydrogeology, Contaminant Fate and Transport, groundwater modelling, solute transport, water resources management, groundwater-surface water interaction, aquifer heterogeneity, geostatistics, remote sensing, near surface geophysics, earthquake seismology

## RESEARCH EXPERIENCE

**University of Medical Sciences, Ondo State, Nigeria**

Teaching and Research

**November 2015-Present**

**Obafemi Awolowo University, Ile-Ife, Nigeria**

Research Assistant/Postgraduate Student

**March, 2012 – July 2014**

## TEACHING EXPERIENCE

**University of Medical Sciences, Ondo State, Nigeria**

Lecturer, Department of Physics

**Course Taught:** General Physics, Introduction to geophysics, Electromagnetic theory, Classical Physics

## HONORS AND AWARDS

Commendation for Academic Performance

**22nd February 2010.**

College of Natural Sciences

University of Agriculture, Abeokuta, Nigeria.

(Now Federal University of Agriculture Abeokuta, Nigeria)

Osun State Government Bursary Award, 2003/2004 to 2007/2008 Academic Sessions

## PROFESSIONAL MEMBERSHIP

Member, Nigerian Institute of Physics (NIP)

Associate Member, International Association of Hydrological Sciences (14788)

## PUBLICATIONS

**Citation Data from Google Scholar (as of 4/10/2022):** 130 Citations, h-index: 7, i10-index: 5

### Published Journal Articles

- (i) **Adebayo, A.S.**, Olufemi, A.P., Ogundele, L.T., Okunnuwa, O.Q., Teyeje, A.B. and Olowookere, C.J., (2022). Ecological and human health risk assessments of metals in soil and tailing from Ife-Ijesha gold mining area, Southwest Nigeria. *Environmental Earth Sciences*, 81(18): 1-13.
- (ii) **Adebayo A.S.**, Ariyibi E.A., Dasho O.A., Olabode A.O., (2021): Linear features in Osun State, Southwestern Nigeria: Qualitative and Quantitative study using Magnetic and Satellite Data. *Environ Earth Sci* 80, 672.
- (iii) **Adebayo A.S.**, Akinola B.S, Adeyemi A.F. (2021): Groundwater contamination and human health risk assessment from a point source pollution in Ikire community, Osun state, Nigeria *Sustain. Water Resour. Manag.* 7:83
- (iv) **Adebayo A.S.**, Ariyibi E.A., Dasho O.A., Adenika C.I and Olagunju, E (2021): Structural Interpretation of Magnetic and Satellite Remotely Sensed Data of Osun State, Southwestern, NRIAG Journal of Astronomy and Geophysics, DOI: 10.1080/20909977.2021.1938893 (Taylor and Francis)
- (v) Adegoke, I.O, Ariyibi E.A., Dasho O.A., **Adebayo A.S.**, Olabode, A.O. (2021): Geophysical interpretation of Magnetic Data over mineralized zone of Itaganmodi, Southwestern Nigeria, *AJGGG*, 7 (1), 22-37
- (vi) Oluwaseyi A. Dasho, Emmanuel A. Ariyibi, **Adebiyi S. Adebayo**, Sesan C. Falade (2020): Seismotectonic lineament mapping over parts of Togo-Benin-Nigeria shield, NRIAG Journal of Astronomy and Geophysics, 9:1, 539-547
- (vii) Awosika D.D., Ariyibi E.A., **Adebayo A.S.**, Dasho O.A., Shode O.H., Adenika C.D., Emmanuel Olagunju E. (2020): Evaluation of groundwater potential zones using integrated geophysical approach in Obun-Ewi, Ondo East local government, Southwestern Nigeria. *Sustain. Water Resour. Manag.* 6, 63.
- (viii) Arogundade, A. B., Hammed, O. S., Awoyemi, M. O., Falade, S. C., Ajama, O. D., Olayode, F.A., **Adebayo, A. S.**, Olabode, A.O. (2020). Analysis of aeromagnetic anomalies of parts of Chad Basin, Nigeria, using high-resolution aeromagnetic data. *Model. Earth Syst. Environ.* 6, 1545–1556.
- (ix) Lasun T. Ogundele, Patrick O. Ayeku, **Adebiyi S. Adebayo**, Ayodele P. Olufemi, Isaiah A. Adejoro (2020). Pollution Indices and Potential Ecological Risks of Heavy Metals in the Soil: A Case Study of Municipal Wastes Site in Ondo State, Southwestern, Nigeria. *Polytechnica* doi.org/10.1007/s41050-020-00022-6.
- (x) Adenika, C. I., Ariyibi, E. A., Awoyemi, M. O., **Adebayo, A. S.**, Dasho, O. A., Olagunju, E. O. (2018). Application of geophysical approach to highway pavement failure: a case study from basement complex terrain southwestern Nigeria. *International Journal of Geo-Engineering*, 9(1): doi:10.1186/s40703-018-0076-0 (Springer)

- (xi) Akinola B. S, Awoyemi M. O, Matthew O. J and **Adebayo A. S** (2018): Geophysical and Hydro-Chemical Investigation of Contamination Plume in a Basement Complex Formation around Sunmoye Dumpsite in Ikire, Southwestern Nigeria Modeling Earth Systems and Environment doi.org/10.1007/s40808-018-0455-8
  
- (xii) E Olagunju, E Ariyibi, M Awoyemi, **A Adebayo**, O Dasho, C Adenika (2017): Application of geochemical and geophysical approach to environmental impact assessment: a case study of Emirin active open dumpsite, Ado-Ekiti Southwestern Nigeria Model. Earth Syst. Environ. [Doi:10.1007/S40808-017-0381-1](https://doi.org/10.1007/S40808-017-0381-1)
  
- (xiii) O. A Dasho, E. A. Ariyibi, F. O. Akinluyi, M. O. Awoyemi and **A. S. Adebayo** (2017): Application of satellite remote sensing to groundwater potential modeling in Ejigbo area, Southwestern Nigeria. Model. Earth Syst. Environ. Vol. 3, 615–633.
  
- (xiv) **A. S. Adebayo**, E. A. Ariyibi, M. O. Awoyemi, and G. C. Onyedim (2015): Environmental Assessment of Old Domestic Dump Site using 2D Electrical Resistivity Imaging: a case study from Olubonku Dump Site in Ede, Osun State, Southwestern, Nigeria, Arab J Geosci (2015) 8:4075–4081
  
- (xv) **A. S. Adebayo**, E. A. Ariyibi, M. O. Awoyemi, and G. C. Onyedim (2015): Delineation of Contamination Plumes at Olubonku Dumpsite using Geophysical and Geochemical Approach at Ede Town, Southwestern Nigeria. Geosciences, 5(1), 39-45

#### MANUSCRIPTS SUBMITTED FOR PUBLICATION

- (ii) **Adebayo A.S.**, Ariyibi E.A., Dasho O.A, Awosika D.D. Evaluation of aquifer geohydraulic and vulnerability characteristics of Ejigbo, Southwestern Nigeria using geoelectrical method (under peer review-applied water science)

#### PAPERS AND WORKS IN PROGRESS

Estimation of hard rock aquifers hydraulic Parameters from geoelectrical measurements

#### CONFERENCES, SEMINARS AND WORKSHOPS

Short Course in Master Grant Proposal Writing and Financial Management in Tertiary Institutions, University of Medical Sciences, Laje road, Ondo State, Nigeria, 22 – 24<sup>th</sup> August,2016.

Short Course on Advance Digital Appreciation Programme for Tertiary Institutions: Statistical Package for Social Science; University of Medical Sciences, Laje Road, Ondo City, Ondo State, Nigeria, 20<sup>th</sup> – 24<sup>th</sup> November, 2017.

#### COMPUTING AND PROFESSIONAL SKILLS

Appreciable Programming skills using MATLAB  
 Proficient in ArcGIS, Oasis Montaj, Rockwork, ILWIS, Winglink, Surfer Software, Microsoft Office packages including excel spreadsheet for generating reports and analysing data.