SOLOMON JOSHUA AVONG

Paleoceanography-Paleoecology-Paleoenvironment-Basin studies

+1(334)870-7880(ResearchGate: http://surl.li/eltcu), Department of Earth System Science (jas0419@auburn.edu), Auburn University

EDUCATION

PhD Student- Earth System Science, Department of Geosciences, Auburn University

MS.c, University of Athens, 2025, Earth and Environmental Sciences (Applied paleontology, geoconservation, application)

MS.c, University of Lille, 2024, Earth and Planetary Sciences and the Environment

MSc, Ahmadu Bello University Zaria, Nigeria, 2023; Geology (Paleontology & Stratigraphy)

BS.c, Ahmadu Bello University Zaria, Nigeria, 2014, Geology

INTERNSHIPS AND INDUSTRIAL TRAININGS

CENTER FOR EUROPEAN GEOSCIENCES(CEREGE), Aix-Marseille, France (2025)

- Microfossil description for paleoenvironmental reconstruction from ODP 959 sediment, Equatorial Atlantic Ocean
- Core description and age determination of core samples
- Detailed analysis of each sample at high-resolution intervals

EARTHPROBE NIGERIA LIMITED/AHMADU BELLO UNIVERSITY ZARIA (2021)

- Age interpretation and precise mapping of lithofacies distribution of the Niger Delta Basin sediments to determine exploration approach
- High-resolution biostratigraphic, lithofacies/wireline and geophysical data to delineate genetic chronostratigraphic units for accurate correlation across wells in the Niger Delta Basin
- Using geophysical and sequence stratigraphic methods to produce a high-resolution reservoir characterization to provide real-time drilling support

HYDROMEV DRILLING COMPANY(2014)

- Mud-logging and borehole monitoring through lithofacies mapping
- Geophysical investigations for lithofacies and aquifer characterization
- Environmental assessment of drill boreholes

HONORS AND AWARDS

TimeScale Foundation Grand-in-Aid (2025)
GSA CONNECT 2025 Travel Support; $850
TimeScale Foundation Grand-in-Aid (2025)
Deep-Time Digital Earth Program; $20,000
ECORD Science Support and Advisory Committee Scholarship (2024)
Support for the Urbino Summer School of Paleoclimatology; 1000 €
The Cushman Foundation 2023 Student Travel Award (2024)
Support for the Urbino Summer School of Paleoclimatology; $500
Roland Schlich travel support (2024)
Support for on-site participants for EGU General Assembly; $200
ERASMUS MUNDUS SCHOLARSHIP PANGEA (2023)
Erasmus Mundus Joint Master Degree PANGEA; $34,000
The International Nannoplankton Association Research Award (2023)

Katharina Von Salis Graduate Research Fellowship; $2500
The Cushman Foundation 2023 Graduate Research Award (2023)
Loeblich and Tappan Student Research Award; $2000
NAPE Conference Grant(2022)
Funding for Research Paper presentation;$200
Exciting World of Geo-science Week-NAPE-YP(2021)
Full funding for 50th NAPE conference; $50
Petroleum Technology Development Fund Award (2020)
Full funding scholarship for research and studies; $4000
Eni/Agip Exploration Limited Scholarship Award (2019)
Awarded to less than 1% of the population for research and studies; $6000
Shell Geoscience Summer School Undergraduate Fellow (2013)
Faculty award for the best 3 Geology students in the Faculty of Science; $200

TEACHING EXPERIENCE

FEDERAL UNIVERSITY GUSAU (2018-2019) & ABU ZARIA (2021-2022), NIGERIA

YEAR	COURSE	Title	Credit &Lab	Enrol	Student Level	Course Evaluation	Instructor Evaluation
2018, Fall	GEOL 101	Physical Geology	2, Lect-Lab	60	100L & 200L		
2018, Spr	GEOL 106	Introd. to Palaeontology &Stratigraphy	2, Lect-Lab	75	100L,200L-300L		
2019, Spr	GEOL 206	Stratigraphy	2, Lect-Lab	30	200L-300L		
2019, Fall	GEOL 205	Fieldwork 1	4, Field Lab	10	200L		
	201	Systematic Palaeontology	2, Lect-Lab	30	200L		
2021, Spr	GEOL 206	Sedim. &Strat.	2, Lect-Lab	28	200L		
2021, Fall	GEOL 415	Micropal. & paleoecology	2, Lect-Lab	15	400L		

SUMMER SCHOOLS AND SHORT COURSES

INNASET Summer School of Cenozoic calcareous nannoplankton, Lyon (2025)
Angers School of Foraminifera and Geochemistry, Angers (2024)
Earth Science Teacher Education, Midland College Texas (2024)
Urbino Summer School in Paleoclimatology, Italy (2024)

PUBLICATIONS

Suleiman, H. N., **Avong, J. S.**, Raheem, M. O., Yola, A. L., Obiosio, E. O., Hamidu, I., Abdulrahman, N. O., Nwaejije, C. E., & Gajibo, H. M. (2026). Miocene foraminiferal biostratigraphy and paleoenvironmental study of well Has-04, Western Coastal Swamp Depobelt, Niger Delta Basin. *Savanna Journal of Basic and Applied Sciences*, *8*(1), 1(**Accepted**)

A Database-Driven Atlas of Nigeria's and Volta's Basin Geological Formations for Decoding West Africa's Tectonic Journey *(In prep)*

Magana, U. M., **Avong, S. J.**, Timothy, I., Oso, P. E., Ubong, O. S., & Ubit, G. E. (2022). Palynostratigraphy and palaeoenvironment of the Western Niger Delta, Nigeria: A case study of the Well–A. *Savanna Journal of Basic and Applied Sciences*, *4*(2), 17–24.

Avong, S. J., Obiosio, E. O., Nwaejije, E. C., Timothy, I., & Ubit, G. E. (2022). Biostratigraphy, palynomorph assemblages and paleoclimate of AVG-1 well, Northwestern Niger Delta, Nigeria. *Savanna Journal of Basic and Applied Sciences*, *4*(2), 31–36.

Francis, J. A., Bata, T. P., Yahaya, A. K., Ibrahim, A., Ubit, G. E., Sunday, G. G., & **Avong, J. S.** (2022). Field and geochemical evidence of Cretaceous anoxic events in parts of the Northern Benue Trough, Nigeria. *Science Forum (Journal of Pure and Applied Sciences)*, *22*, 299–309. https://doi.org/10.5455/sf.XXXXX

Ubit, G. E., Bata, T. P., Francis, J. A., Sunday, G. G., **Avong, J. S**., Oso, P., Zubairu, C., Uche, C., & Elijah, E. H. (2022). Hydrocarbon generating potential of the Yolde Formation and weathering depth variability in Northern Benue Trough, Dengi and environs. *Science Forum (Journal of Pure and Applied Sciences)*, *22*, 716–730. https://doi.org/10.5455/sf.XXXXX

CONFERENCES

Solomon Joshua Avong, Enam Okon Obiosio, Henry Nasir Suleiman, James G. Ogg, Jacques LeBlanc, Gabrielle Ogg. Africa's Basins Deep-Time Evolution: A Paleogeographic and Palaeoceanographic Database Perspective. Geological Survey of America (GSA) Connects, 19th – 22nd October, 2025, Vol. 57, No. 6. DOI: 10.1130/abs/2025AM-8511

James G. Ogg, Enam O. Obiosio, Henry N. Suleiman, **Avong S. Joshua**, Wen Du, Gabrielle Ogg, and Jacques LeBlanc. African Geologic Formation Database with Visualisations onto Plate Reconstructions. 43rd Nigerian Association of Petroleum Explorationists Annual International Conference and Exhibition, Lagos, Nigeria, November 9th – 13th 2025. Book of Abstracts ID: 2504-PSRC-72.

Enam Obiosio, **Solomon Avong**, Henry Suleiman, Jim Ogg, Jacques LeBlanc, Gabrielle Ogg. Graphical Interface Visualisation of Geology of Africa: Database Perspective. 30th Colloquium of African Geology Conference, Nairobi, Kenya, September 23rd – 27th 2025. Book of Abstracts ID: T4_008 https://cag30nbi.org/wp-content/uploads/2025/11/Book-of-Abstract_-27-10_2025.pdf.

Obiosio E. Okon, **Avong J. Solomon**, Henry N. Suleiman, James G. Ogg, Gabi Ogg, Jacques LeBlanc. Reconstructing Africa's Tectonic Evolution: A Geologic Database Perspective: 60th Nigerian Mining and Geosciences Society's Annual International Conference and Exhibition, Abuja, Nigeria, February 16-21, 2025. Book of Abstracts ID: 908 (pp.76-77).

Solomon, J. A., Obiosio, E., Ibrahim, H., Gospower, U., and Anyanna, L.: Neogene biostratigraphy in the Niger Delta by intergrating foraminifera and Paleo-oceonographic implications, EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-1204,https://doi.org/10.5194/egusphere-egu24-1204, 2024.

Avong S. Joshua, Enam O. Obiosio, Hamidu Ibrahim, Emmanuel C. Nwaejije, Ubit E.Godspower, Joseph, F. Amobi and Timothy Israel. Integrated Micropalaeontological Analysis and Paleoenvironment of AVG-1 Well, Greater Ughelli Depobelt, Niger Delta. Proceedings of 40th NAPE Annual International Conference and Exhibition, Lagos, Nigeria, Nov. 13-17, 2022. Book of Abstracts ID: 142.

Avong S. Joshua, Enam O. Obiosio, Hamidu Ibrahim, Emmanuel C. Nwaejije, Timothy Israel, Khalifah M. Dindi, Joseph, F. Amobi and Ubit E.Godspower. Benthic Foraminifera Biostratigraphy and Paleobathymetry of Sediments, Northwest Niger Delta.Proceedings of 40th NAPE Annual International Conference and Exhibition, Lagos, Nigeria, Nov. 13-17, 2022. Book of Abstracts ID: 109.

Avong S. Joshua, Enam O. Obiosio, Hamidu Ibrahimand Timothy Isreal.High Resolution Foraminifera Biostratigraphy and Paleobathymetry of the Greater Ughelli Depobelt, Niger Delta. 2nd International Conference "Geosciences & Environment - ICGSE2022" to be held on September 17 & 18, 2022 in Mascara (Algeria). Abstract reference: 066

Avong S. Joshua, Enam O. Obiosio, Hamidu Ibrahim and Timothy Isreal.Bio-Sequence Stratigraphy Framework Based on Recovered Foraminifera and Calcareous Nannoplankton, Northwest of the Greater Ughelli Depobelt, Niger Delta. 2nd International Conference"Geosciences & Environment - ICGSE2022" to be held on September 17 & 18, 2022 in Mascara (Algeria). Abstract reference: 231.

Avong, S.J., Obiosio, E.O., Hamidu I. and Nwaejije, E.C. High Resolution Biostratigraphy and Palaeoenvironment of AVG-1 Well, Offshore of the Greater Ughelli depobelt, Niger Delta. Proceedings of 57th NMGS Annual International Conference and Exhibitions, Garden City, Port Harcourt, Nigeria, March 13-19, 2022. Book of Abstracts ID: 4205

Avong, S.J., Obiosio, E.O., Hamidu, I. and Nwaejije, E.C. Early–Late Miocene Sequence Stratigraphy of Avg-1 Well, Offshore of the Greater Ughelli Depobelt, Niger Delta. Proceedings of 57th NMGS Annual International Conference and Exhibitions, Garden City, Port Harcourt, Nigeria, March 13-19, 2022. Book of Abstracts ID: 4204.

POSTER PRESENTATION

Avong S. Joshua, Enam O. Obiosio, Hamidu Ibrahim, Emmanuel C. Nwaejije, Timothy Israel, Ubit E.Godspower and Joseph, F. Amobi. Application of Integrated Bio-Sequence Stratigraphic Analysis on Oml-95, Northwest of the Greater Ughelli Depobelt, Niger Delta. Proceedings of 40th NAPE Annual International Conference and Exhibition, Lagos, Nigeria, Nov. 13-17, 2022. Book of Abstract ID: 153.

INVITED LECTURES

Solomon Joshua Avong: International Nannoplankton Association Conference 19, Conwy,UK, 2024**,** https://www.youtube.com/watch?v=wfXSLMgo4PM

PROFESSIONAL AFFILIATIONS

- Student Member, The Micropaleontological Society (TMSOC);
  Student Member, European Geosciences Union (EGU)
- Student Member, International Nannoplankton Association (INA)
- Student Member, Cushman Foraminifera Foundation
- Student Member, American Association of Petroleum Geologists (AAPG);
  Student Member, Nigerian Mining and Geoscience Society (NMGS)

REFERENCES

Dr. Richard Vachula
Department of Geology
Auburn University, Alabama, USA.
rsv0005@auburn.edu

Prof. Enam O. Obiosio
Department of Geology
Ahmadu Bello University, Zaria, Nigeria.
eoobiosio@abu.edu.ng, enamob@gmail.com

Prof. James Ogg
Purdue Univ. - Earth, Atmos., Planet. Sci. (Professor - retired/adjunct status); Chief Data Scientist for Paleogeography, IUGS Deep-time Digital Earth Research Center of Excellence (Suzhou); Exec. Dir. of Geologic TimeScale Foundation [timescalefoundation.org]