DR. VICTORIA OLUWADAMILOLA OLAGOKE (NÉE DADA)

Lecturer I | Hydrologist | Hydrogeophysicist | Water Resources Scientist

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PROFESSIONAL PROFILE

Dr. Victoria Oluwadamilola Olagoke is a Lecturer I in the Department of Water Resources Management and Agrometeorology, Federal University of Agriculture, Abeokuta (FUNAAB), Nigeria. She is a hydrologist, hydrogeophysicist and water resources scientist with expertise in groundwater hydrology, aquifer characterization, hydrogeophysics, hydrochemistry, groundwater quality assessment, GIS and remote sensing, environmental monitoring, and data-driven modelling. Her research interests also include water resources management and security, climate change and drought resilience, water accessibility, irrigation and agricultural water management, and artificial intelligence and machine learning applications in hydrology.

EDUCATION

- PhD, Water Resources Management and Hydrology, FUNAAB, 2025. Dissertation: Assessment of Aquifer and Groundwater Hydrochemical Characteristics in Abeokuta Metropolis, SouthWest, Nigeria.
- M.Sc., Water Resources Management and Hydrology, FUNAAB, 2017. Dissertation: Identification of Groundwater Potential Zones Using Three Different Techniques in Parts of Omi and Osun Drainage Basins, South-West, Nigeria.
- B.Sc., Water Resources Management and Hydrology, FUNAAB, 2012. Second Class Upper Division. Research Project: Analysis of the Downstream Section of Sokori Drainage Basin.

ACADEMIC APPOINTMENTS

- Lecturer I, Department of Water Resources Management and Agrometeorology, FUNAAB — 2025–Present.
- Lecturer II, Department of Water Resources Management and Agrometeorology, FUNAAB — 2022–2025.
- Assistant Lecturer, Department of Water Resources Management and Agrometeorology, FUNAAB — 2019–2022.

RESEARCH AREAS

- Groundwater Hydrology and Aquifer Characterization; Hydrogeophysics and Electrical Resistivity Methods.
- Groundwater Quality, Hydrochemistry and Heavy-Metal Risk Assessment; Water Resources Management and Security.
- Climate Change, Drought Resilience and Climate–Health Interactions; GIS, Remote Sensing and Environmental Monitoring.
- Artificial Intelligence and Machine Learning Applications in Hydrology; Water Accessibility, Irrigation and Agricultural Water Management.

RESEARCH EXPERIENCE & HIGHLIGHTS

- Hydrogeophysical investigation involving 200 Vertical Electrical Sounding (VES) stations.
- Static groundwater-level monitoring across 200 wells and seasonal groundwater-quality assessment across 40 monitoring locations.
- Integrated application of hydrogeophysics, hydrology, hydrochemistry, GIS and Artificial Neural Network modelling.
- Experience in aquifer vulnerability, protective capacity, transmissivity estimation, Water Quality Index assessment, heavy-metal risk assessment and spatial analysis.

FUNDED RESEARCH

- DUPC3 / Water and Development Partnership Programme — Research Team Member (2023–2026). Stakeholder Participation to Enhance Drought Resilience through Reinforced Indigenous Knowledge and Smart Tools for Socially-Just Water Management in Ogun River Basin. Award amount: €122,050.
- TETFund Sponsored Institution-Based Research Grant (2025) — Research Team Member. Evaluation of the Synergistic Eco-threats of Antibiotics and Heavy Metals from Abattoir Effluent into the Ogun River, Southwest, Nigeria.

TEACHING, SUPERVISION & ACADEMIC SERVICE

- Teaches undergraduate/postgraduate courses including Elements of Geoscience, Elements of Hydrology and Groundwater Hydrology.
- Supervised more than 50 undergraduate research projects and currently co-supervises two M.Sc. research projects.
- Final Year Coordinator; Secretary, Departmental Academic Committee; Member, College Committee on Examination and Results (COCER); Member, College Board, College of Environmental Resources Management; College Representative, SWEHOMAC.

SELECTED PEER-REVIEWED PUBLICATIONS

- **Olagoke, V. O.**, Balogun, K. I., Adekitan, A. A., & Oduneye, M. B. (2025). Hydrogeophysical assessment of aquifer vulnerability and protective capacity in New Felele/Soka, Ibadan, Southwestern Nigeria. Nigerian Journal of Technological Research, 20(3).
- **Olagoke, V. O.**, Adekitan, A. A., Awojobi, R. I., & Ajibuwa, T. J. (2025). Evaluation of groundwater quality and health implications of physicochemical and microbial contaminants in Kuto environs, Ogun State, Nigeria. Journal of Meteorology and Climate Science, 24(1).
- **Olagoke, V. O.**, Odjegba, E. E., Balogun, K. I., & Ajibuwa, T. J. (2025). Assessment of the physico-chemical and bacteriological quality of groundwater from hand-dug wells in Sabo and its environs, Abeokuta, Ogun State, Nigeria. Journal of the African Meteorological Society, 1(1).
- **Olagoke, V. O.**, Ayoola, K. O., & Adekitan, A. A. (2025). Linking irrigation practices to crop productivity and livelihood outcomes in Odeda, Nigeria. Sokoto Journal of Geographical Studies, 3(1), 212–222.
- Jimoh, R. A., **Olagoke, V. O.**, Olaleye, O. S., Afonja, Y. O., Fajobi, A. F., Idowu, O. A., & Awomeso, J. A. (2025). Model-based irrigation optimization for water allocation amid climate uncertainty: A systematic review toward food security and adaptive resilience. Circularity Letters, 2(1), 125–134.
- **Dada, V. O.**, Adekitan, A. A., & Onasanya, H. O. (2022). Electrical resistivity investigation of the groundwater potential in Oloruntedo Community, Abeokuta, Ogun State, Nigeria. Journal of Meteorology and Climate Science, 21(1), 104–113.
- **Dada, V. O.**, Awomeso, J. A., Oluwasanya, G. O., Adedeji, O. H., Ayantobo, O. O., & Taiwo, A. M. (2021). Integration of remote sensing data, GIS and geophysical survey for delineation of groundwater potential zones. Nigerian Journal of Science and Environment, 19(1), 81–97.

- Odjegba, E. E., Bankole, A. O., Layi-Adigun, B. O., & **Dada, V. O.** (2021). Water, sanitation, and hygiene in healthcare centres: Appraisal in a pandemic. Journal of Water, Sanitation and Hygiene for Development, 11(6), 926–936. DOI: 10.2166/washdev.2021.075.
- Odjegba, E. E., Akanji, O. E., Bankole, A. O., Makinde, A. A., Aromolaran, A. K., & **Olagoke, V. O.** (2026). Hydroclimatic extremes indexed by SPI and malaria case dynamics in Oyo State, Nigeria: Evidence for lagged, site-specific effects. Journal of Water and Health. DOI: 10.2166/wh.2026.281.
- Olaleye, O. S., Jimoh, R. A., Alonge, A. E., **Olagoke, V. O.**, Afonja, Y. O., Odetoyinbo, A. O., & Sodiq, K. A. (2026). Modeling groundwater quality and prediction in a highly urbanised coastal city of Lagos using an artificial neural network. Journal of Basics and Applied Sciences Research, 4(3), Special Issue, 192–216. DOI: 10.4314/jobasr.v4i3.21s.

SELECTED CONFERENCES

- 2nd Pan Africa Hydrogeology Congress (PAHC), IAH-SSA, IAH Burdon Commission and African Groundwater Network — Virtual, 27–28 August 2026.
- 15th Nigeria Association of Hydrological Sciences (NAHS) Conference — Bayero University, Kano, 4–7 November 2025.
- 1st International Conference of the Faculty of Environmental Sciences, Benue State University, in collaboration with Environment and Safety Management Institute — Makurdi, 9–12 September 2025.
- 6th Circularity Africa Conference — University of Abomey-Calavi, Benin Republic, 13–16 May 2025.
- 4th International Conference on Water in Africa (ICWA) — University of Nigeria, Nsukka, March 2025.
- 3rd International Conference on Water in Africa (ICWA) — University of Nigeria, Nsukka, 19–23 March 2024.

PROFESSIONAL MEMBERSHIPS & AWARD

- Nigerian Association of Hydrological Sciences (NAHS); Netlink Environmental Conservation Organisation (NECOR).
- Professor O. Martins Prize for Best Final Year Project in Water Resources Management and Hydrology (2012).

TRAINING & PROFESSIONAL DEVELOPMENT

- FUNAAB, 2-Day Capacity Building Workshop for Academic Staff, June 2025; Career Services and Linkages Unit, 2-Day Capacity Building Training for Career Coaches and Mentors, February 2025.
- FUNAAB, Part-Time Learning Management Systems (LMS) / Part-Time Degree Programme Workshop, October 2024; 3-Day Academic Retreat on University Ethics, Pedagogy and Examination Matters, June 2021.

PROFESSIONAL PROFILES

- ORCID: https://orcid.org/0000-0001-7336-5658
- Google Scholar: https://scholar.google.com/citations?user=GHZUwmEAAAAJ
- ResearchGate: https://www.researchgate.net/profile/Victoria-Dada-Olagoke
- LinkedIn: https://ng.linkedin.com/in/victoria-olagoke-5b8ba515