**OLADELE O. CAMPBELL**
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**PROFESSIONAL PROFILE**

An accomplished Computer Science educator, administrator and researcher with nearly 30 years’ experience in curriculum development, accreditation leadership and empirical research. As Pioneer Head of Department at Niger State Polytechnic (2008–2012), successfully secured national accreditation for all Computing programmes and established a department now serving over 300 students per session. Mentor to over 200 students and junior staff, many of whom have progressed to leadership roles in industry and academia. Research interests include generative AI, constructionist learning, professional dispositions and the impostor phenomenon in computing education.

**KEY SKILLS & COMPETENCIES**

* **Research & Grant Management:** Principal Investigator on multi‑institutional projects; secured institutional recommendation for a ₦4.35 million Tetfund funding for Institutional Based Research (IBR) project and R58 071 University of South Africa (UNISA) postgraduate bursary.
* **Quantitative Analysis:** Advanced proficiency in SPSS, R; published in Q1/Q2 Scopus‑indexed journals.
* **Curriculum Design & Accreditation:** Led syllabus revision and accreditation processes; liaised with NBTE and professional bodies.
* **Educational Technology & Development:** Development of Intelligent Tutoring Systems (*Algotutor*), virtual lab, Scratch‑based interventions; skilled in Python, Google Apps Script & gspread integration.
* **Leadership & Administration:** Departmental leadership, programme coordination, stakeholder engagement and change management.
* **Teaching & Supervision:** Experience across ND, HND and PGD levels; supervised 100+ final‑year projects to successful completion.
* **Communication & Collaboration:** Effective collaborator with international research teams; peer reviewer for ACM SIGCSE, Journal of Computer Assisted Learning, Springer’s SN Social Science, Journal of Medical Artificial Intelligence, and TOCE.

**EDUCATION**

**PhD**, Computer Science Education
University of South Africa (UNISA), Pretoria | 2022
• Thesis: *Impact of Scratch on the Achievements of First-year Computer Science Students in Programming in Some Nigerian Polytechnics* (Supervisor: Prof H. I. Atagana)

**MSc**, Computer Science
University of Ibadan, Nigeria | 2003
• Dissertation: *Algotutor: An Intelligent Tutoring System for Basic Algorithm Design* (Supervisor: Prof C. Uwadia)

**BSc (Second Class Upper)**, Computer Science
University of Ibadan, Nigeria | 1994

**RESEARCH EXPERIENCE**

**Principal Investigator**
Niger State Polytechnic, Zungeru | Nov 2024 – Present

* Leading the multi‑institutional study *Integrating Professional Dispositions in Nigerian Polytechnic Computing Education*, secured an institutional committee’s approval recommending Tetfund’s research grant.
* Designed mixed‑methods pre‑/post‑surveys and reflective interventions for 200+ HND students to measure adaptability, persistence and self‑directed learning.

**Co‑Investigator**, International Impostor Phenomenon Study | 2021 – 2025

* Led the Niger State Polytechnic site in a multi‑institutional study on the impostor phenomenon among computing students.
* Outcomes: Co-author two accepted publications—one in *ACM Transactions on Computing Education* and one conference paper for CompEd 2025 (Gaborone, Botswana; 21–25 October 2025).

**PhD Researcher**, UNISA | 2019 – 2022

* Conducted two quasi‑experiments with 500+ first‑year students, demonstrating a statistically significant increase in engagement and achievement through a Scratch‑based pedagogy (p < .05).
* Published two articles in *Data in Brief* and *Heliyon* and presented a conference paper.

**MSc Researcher**, University of Ibadan | 2001 – 2003

* Developed and evaluated *Algotutor*, an Intelligent Tutoring System (ITS) prototype; published findings in a peer‑reviewed local journal.

**TEACHING EXPERIENCE**

**Principal Lecturer**, Department of Computer Science
Niger State Polytechnic, Zungeru | May 1995 – Present

* Deliver ND, HND and PGD modules (Programming, Algorithm and Data Structures, Software Engineering, C++, Systems Analysis) to cohorts of 10–120 students.
* Revised course syllabi to meet NBTE accreditation standards; coordinated assessment design and grading for 400+ student submissions per annum.
* Supervised 100+ final‑year projects; notable topics include biometric attendance systems, accessible ATM interfaces and campus social networks.

**SELECTED PUBLICATIONS**

**Journal Articles**

* **Krause‑Levy, S., Petersen, A., Campbell, O. O., et al.** (2025). Multi‑institutional study on impostor phenomenon. ACM Transactions on Computing Education.
* **Deriba, F., Sanusi, I. T., Campbell, O. O. & Oyelere, S. S.** (2024). Computer programming education in the age of generative AI: Insights from empirical research. SSRN. <https://doi.org/10.2139/ssrn.4891302>
* **Campbell, O. O. & Atagana, H. I.** (2022). In search of experimental evidence on Scratch programming and students’ achievements in the first‑year college computing class? Consider these datasets. Data in Brief, 45, 108635. <https://doi.org/10.1016/j.dib.2022.108635>
* **Campbell, O. O. & Atagana, H. I.** (2022). Impact of a Scratch programming intervention on student engagement in a Nigerian polytechnic first‑year class: Verdict from the observers. Heliyon, 8(3), e09191. <https://doi.org/10.1016/j.heliyon.2022.e09191>

**Conference Papers**

* **Sanusi, I. T., Campbell, O. O. & Akinrinola, F. Y.** (2025). Preliminary insights into computer science teacher preparation programmes in Nigerian universities. Proc. CompEd 2025: ACM Global Computing Education Conference, Gaborone, Botswana, 23–25 October 2025.
* **Campbell, O. O., Krause‑Levy, S., Porter, L., Sanusi, I. T. Adelakun‑Adeyemo, O.** (2025). The impostor phenomenon among Nigerian computing students: A study of prevalence, gender, and academic progression. Proc. CompEd 2025: ACM Global Computing Education Conference, Gaborone, Botswana, 23–25 October 2025.
* **Campbell, O. O., Sanusi, I. T. & Atagana, H. I.** (2024). From visual arts to programming: Exploring the impact on achievement in constructionist college CS1 classes. In ITiCSE 2024: Proc. Conference on Innovation and Technology in Computer Science Education (pp. 604–610). Milan, Italy, 8–10 July 2024. <https://doi.org/10.1145/3649217.3653597>. An International Conference with acceptance rate of 26.8% (see <https://dl.acm.org/action/showFmPdf?doi=10.1145%2F3649217>)
* **Campbell, O. O.,** Adelakun-Adeyemo, O., Akinrinola, F. Y., Chewachong Akih, P., Tshukudu, E., & Becker, B. A. (2023). The Impacts of a Constructionist Scratch Programming Pedagogy on Student Achievement with a Focus on Gender. Proceedings of the ACM Conference on Global Computing Education, 29-35. Presented at the 2nd ACM Global Computing Education Conference (CompEd 2023), December 7-9, 2023 at Hyderabad, India. <https://doi.org/10.1145/3576882.3617911>. An International Conference with acceptance rate of 35% (see <https://dl.acm.org/action/showFmPdf?doi=10.1145%2F3617650> )

**Book**

* **Campbell, O. O., Bake, P., Mohammed, A. A. & Dagah, I. A.** (2024). A guided introduction to C++ programming: From basic concepts to advanced techniques for college students. Zaria: Ahmadu Bello University Press. ISBN 978‑978‑989‑866‑4.

**PROFESSIONAL EXPERIENCE**

**Developer & Administrator**
Final Year Project Portal, Niger State Polytechnic | May 2025 – Present

* Designed and deployed a Python/Google Apps Script portal enforcing unique topic registration, drop functionality and audit logging.
* Reduced manual processing time by 80% and improved transparency for students, supervisors and committee members.

**PG Coordinator**, Department of Computer Science | 2017 – 2023

* Managed PGD programmes: timetable creation, staff allocation, results presentation to University Affiliations board.

**Acting Head of Department**, Computer Science | 2008 – 2012

* Pioneered department establishment: curriculum design, facilities planning and staff recruitment.
* Secured consecutive NBTE accreditations; improved student success rates by 15%.

**PROFESSIONAL TRAINING & AFFILIATIONS**

* **Coursera:** Supervised Machine Learning (Regression & Classification), 100% (Aug 2022)
* **AuthorAid:** Research Writing in the Sciences, Merit (May 2022)
* Senior Member, **ACM** (2021 – Present)
* Member, Nigeria Computer Society (2005 – Present)

**SERVICE & REVIEW**

* Peer reviewer: ACM SIGCSE Technical Symposium, Koli Calling, and CompEd, ACM TOCE, Journal of Computer Assisted Learning, Taylor and Francis Computer Science Education and Journal of Medical Artificial Intelligence.
* NBTE Accreditation Resource Person (2011, 2018) · JAMB CBT Technical Assistant (2020)

**LANGUAGES**

* **English:** Advanced (Listening, Speaking, Reading, Writing)
* **French:** Intermediate (Listening, Reading)
* **Yoruba:** Native
* **Hausa:** Intermediate (Listening, Speaking)

**REFEREES**

1. **Prof. B. O. Akinkunmi**
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2. **Prof. H. I. Atagana**
University of South Africa, UNISA. · atagahi@unisa.ac.za · +27 82 200 9855
3. **Dr I. U. Kontagora**
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