

Curriculum Vitae

Dr. Musa Ugbedejo, Ph.D.

Department of Computer Science

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Professional Profile

Computer Science researcher with over 15 years of teaching and research experience in cloud computing, network security, machine learning, and ICT for development. Demonstrated expertise in designing and delivering curricula, supervising undergraduate and postgraduate research, and publishing in peer-reviewed outlets. Skilled in collaborative, cross-disciplinary research and passionate about advancing secure and sustainable computing systems with real-world impact.

Education

Ph.D., Computer Science – Landmark University, Omu-Aran, Nigeria (2020–2023).

M.Sc., Management Information Systems – Covenant University, Ota, Ogun State, Nigeria (2015–2017).

PGD., Management Information Systems – Covenant University, Ota, Ogun State, Nigeria (2014–2015).

Research Interests

Cloud Computing Security and Privacy

Big Data Analytics & Machine Learning

Network Security & Intrusion Detection

ICT Applications for Governance & Development

Natural Language Processing (NLP) with African Languages

Academic Appointments

Federal Polytechnic, Idah, Nigeria

Senior Lecturer, Department of Computer Science (2024 – Present)

Lecturer III – Lecturer I (2010 – 2022)

Lab Technician / Technologist (1999 – 2010)

Taraba State University, Jalingo, Nigeria

Visiting Lecturer, Department of Computer Science (2023 – 2024)

Salem University Lokoja, Nigeria

Part-time Lecturer, Department of Computer Science (2025)

Teaching & Supervision Experience

Delivered undergraduate and postgraduate courses including: Cloud Computing, Cryptography & Information Security, Distributed Systems, AI, Networking, Operating Systems, and Research Methods.

Supervised 500+ undergraduate/HND projects and multiple postgraduate theses.

Designed curricula for ND, HND, and B.Sc. Computer Science programs.

Selected Publications

(Full list available upon request)

1. Ugbedeajo M., Oni A.A. (2017). *Design and Development of E-Revenue System for State Internal Revenue Service*. Covenant University Conference on E-Government in Nigeria.
2. Ajayi E.A., Alese B.K., Iwasokun G.B., Ayodele O.S., Ajayi B.K., Musa U., Ilugbusi A.A. (2017). *Game Theory Approach to Intrusion Detection System*. 9th iSTEAMS Multidisciplinary Conference, University of Ghana.
3. Sani Felix Ayegba, Abu Onoja, Musa Ugbedeajo (2017) English – Igala Parallel Corpora for Natural Language Processing Applications. *International Journal of Computer Applications, USA*. Volume 171, Number 9.
4. Sani Felix Ayegba, Musa Ugbedeajo, Benson-Iyare J. C, Abu Onoja (2017) Igala Language Spell Checker. *Current Journal of Applied Science and Technology, SCIENCEDOMAIN international*, DOI:10.9734/CJAST/2017/35445.
5. A. Aderonke Oni, Ugbedeajo Musa and Samuel Oni (2020), E-Revenue Adoption in State Internal Revenue Service. *Interrogating the Institutional Factors Journal of Organizational and End User Computing* Vol. 32, Issue 1.
6. Musa, Ugbedeajo, et al. “An Improved Secured Cloud Data Using Dynamic Rivest-Shamir-Adleman Key.” *Indonesian Journal of Electrical Engineering and Computer Science*, vol. 33, no. 1, 1 Jan. 2024, pp. 433–433, <https://doi.org/10.11591/ijeecs.v33.i1.pp433-441>. Accessed 13 July 2024.
7. Musa, Ugbedeajo, et al. “Hybrid Cloud Storage Techniques Using RSA and ECC.” *International Conference on Science, Engineering and Business for Sustainable Development Goals (SEB-SDG)*, vol. | 979-8-3503-2478-5/23/\$31.00 ©2023 IEEE | DOI: 10.1109/SEB-SDG57117.2023.10124559
8. Musa, Ugbedeajo, et al. “Development of a Machine Learning Model for Big Data Analytics.” *International Conference on Science, Engineering and Business for Sustainable Development Goals (SEB-SDG)* | 979-8-3503-2478-5/23/\$31.00 ©2023 IEEE | DOI: 10.1109/SEB-SDG57117.2023.10124592

9. Ugbedeajo, Musa, et al. "RSA and Elliptic Curve Encryption System: A Systematic Literature Review." *International Journal of Information Security and Privacy (IJISP)*, vol. 18, no. 1, 1 Jan. 2024, pp. 1–27, www.igi-global.com/article/rsa-and-elliptic-curve-encryption-system/340728, <https://doi.org/10.4018/IJISP.340728>. Accessed 6 Apr. 2024.
10. Musa, U., (2024). Personalized cryptographic keys for effective data security on the Cloud. *Journal of Management and Technology*, Vol. 20(1), pp. 155-168.
11. Felix Ayegba Sani, and Ugbedeajo Musa. 2025. "Enhancing Sustainable Agriculture Through Deployment of 5G Technology in Ibaji Local Government Area of Kogi State". *Asian Journal of Advances in Agricultural Research* 25 (12):27–38. <https://doi.org/10.9734/ajaar/2025/v25i12693>.

Academic Service and Leadership

Curriculum development for undergraduate and HND Computer Science programs.

Coordinator, departmental training and student research projects.

Examiner for undergraduate and postgraduate theses.

Organizer of ICT and cybersecurity capacity-building workshops.

Professional Memberships

Association for Computing Machinery (ACM)

Nigeria Computer Society (NCS)

Nigerian Institute of Management (NIM)

References

Prof. Ayodele A. Adebisi

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