**ADEPITAN, ROFIAT OLUFUNMILAYO**

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**PERSONAL SUMMARY**

Motivated and detail-oriented microbiology graduate with a solid foundation in molecular and industrial microbiology. Passionate about leveraging microbiological knowledge to contribute to address public health challenges and enhance community well - being.

**RESEARCH INTERESTS**

Public Health Microbiology, Antimicrobial Resistance, Molecular Microbiology and Nanotechnology.

**EDUCATION**

**Ladoke Akintola University of Technology (LAUTECH), Ogbomoso Oyo State, Nigeria.**

B.Tech in Pure and Applied Biology (Microbiology option)September 2019- January 2025

First Class Hons. – **4.55/5.0 CGPA (Top 1%)**

**RELEVANT COURSEWORK:** Medical Microbiology, Virology, Environmental Microbiology, Biotechnology, Analytical Microbiology and Quality Control, Food Microbiology, Immunology and Immunochemistry, Biological Techniques, Microbial Genetics and Molecular Biology.

**RELEVANT EXPERIENCE**

**Laboratory of Industrial Microbiology and Nanobiotechnology, LAUTECH Oyo State, Nigeria.**

*Undergraduate Research Assistant* April 2024 - November 2024

Research work: *The Effects of* Protein-rich Keratin Hydrolysates and Calcium Nanocomposites on the growth of Amaranth

* Isolated keratinolytic bacteria and repurposed keratin-rich substrates (feathers and hooves) into protein hydrolysates.
* Synthesized calcium nanoparticles from prepared hydrolysates.
* Conducted field experiments to evaluate the biofertilizing effects of hydrolysates on the growth and chlorophyll content of vegetable (Amaranth).
* Analyzed the potential of the formulated hydrolysates and it synthesized nanocomposites in use as an alternative and sustainable biofertilizer.
* Utilized SPSS software to analyze field data, including growth parameters, yield measurements and chlorophyll content across different treatment groups.
* Performed statistical tests like ANOVA and post hoc analysis to determine the significance of the biofertilizer treatments compared to controls.

**The Department of Pure and Applied Biology, LAUTECH Oyo State, Nigeria.**

*Undergraduate Academic Seminar*July 2024 - September 2024

Title: SYNBIOTICS- The Complementary Roles of Probiotics and Prebiotics in maintaining good health

* Conducted an in-depth study on the synergistic effects of probiotics and prebiotics on gut health and overall well-being.
* Analyzed and reviewed scientific literatures (2010-2024) on the roles of symbiotic in maintenance of good health.
* Delivered a presentation highlighting the mechanisms, health benefits, combination examples and potential of synbiotics in nutrition and medicine.
* Developed research, critical thinking and public speaking during the seminar.

**Medical Microbiology and parasitology, College of Medicine, University of Ibadan Oyo State, Nigeria**

*Research Internship* September 2023 - March 2024

* Collected clinical samples (blood and stool) and environmental samples (still and passing water from neighborhood) from infected and suspected patients for diagnostic purposes.
* Performed biochemical testing and basic screening methods to identify present bacteria in samples.
* Assisted in DNA extraction from stool, blood and other bodily fluids, qPCR.
* Learnt the principles behind sample collection to identification of microorganism from environment.
* Gained efficient use of laboratory equipment, SOPs, and safety manuals.
* Applied laboratory protocols to ensure accurate results.

**CAMPUS INVOLVEMENT**

* Member, Antimicrobial Resistance Club LAUTECH Chapter September 2024 – till date
* Participant, International Conference on Nanotechnology ‘NANOTECHNOLOGY REVOLUTION FOR SUSTAINABLE DEVELOPMENT: SECURING THE FUTURE FOR THE BENEFITS OF HUMANITY’, LAUTECH-NANO November, 2024
* Participant, Campus-Wide Antimicrobial Resistance Symposium, College of Health, LAUTECH November, 2024
* Participant, International Conference on Kola ‘The Treasure Beyond Consumption: Exploring kola for sustainable development’, LAUTECH-PANAFSTRAG May, 2024

**VOLUNTEERING AND LEADERSHIP EXPERIENCES**

**University Scholars Forum (USF) LAUTECH Chapter Oyo State, Nigeria.**

*Co-Convener October 2024 – January 2025*

* Co-led the establishment of the first chapter of the Forum in the institution aimed to facilitate knowledge, enhance skills and promote excellence in scholarship and research.
* Organized mentoring sessions with accomplished scholars to guide students on academic excellence and career development.
* Conducted online research to identify scholarship opportunities and shared valuable insights with the forum.

**Antimicrobial Resistance (AMR) Club, LAUTECH Oyo State, Nigeria**

*Volunteer Member September 2024 - November 2024*

* Participated in awareness campaigns to sensitize the public on misuse of antimicrobials
* Assisted in the coordination of symposiums and events, and as a protocol volunteer, contributing to the efficient management of organizational activities.

**Prof A. Lateef Class’24 Undergraduate Projects Students, LAUTECH Oyo State, Nigeria**

*Group Leader A*pril *2024 – November 2024*

* Led a team of 5, ensuring efficient collaboration and oversaw laboratory procedures and field trials.
* Developed an easy - to – follow Standard Operating procedure (SOP) for laboratory procedures, enhancing consistency and accuracy.
* Addressed challenges within the group by fostering open communication, incorporating members’ opinion and implementing effective solutions.
* Managed data collection and analysis, and compiled detailed reports for departmental presentations.

**Biological Science Student Association (BIOSSA), LAUTECH Chapter Oyo State, Nigeria**

*Merit-Based Caretaker president August 2023 - July 2024*

* Acted as the voice of students effectively communicating their concerns and needs to the department.
* Managed financial operations including remitting collected funds to the department with transparency.
* Provided leadership during a transitional period, ensuring the smooth running of the association’s president.

**CERTIFICATES**

Fundamentals of English Grammar September, 2022

Basic Life Support, **NHCPS**  September, 2024

Jobber man/Propel Soft Skill Training November, 2024

Data science and Analytics, **H*P*** November, 2024

Membership Volunteer, **AMR LAUTECH**  November, 2024

International Genomics & Bioinformatics Boot camp, **Genomac Institute Inc.**  November, 2024

Member of the American Society of Microbiology, **ASM** December 2024

Health-care Associated Infection Surveillance, **WHO** January, 2025

Antimicrobial Resistance: Key concepts and Interventions, **WHO** January, 2025

**SKILLS**

*Data management*: MS word | PowerPoint | HTML | CSS |Data presentation

*Personal strengths*: Excellent Communication abilities, Teamwork, Interpersonal relationship skills, Effective planning and Task Execution.

*Languages*: English (proficient)

**REFEREES**

* Prof. A. Lateef (Undergraduate Supervisor, LAUTECH)

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* Prof. M. A Azeez (Undergraduate Advisor, LAUTECH)

Professor of Genetics and Biotechnology, Department of Pure and Applied Biology

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* Prof. O.A. Ige (Undergraduate Mentor, LAUTECH)

Professor of Animal Breeding and Genetics, Department of Animal Nutrition and Biotechnology

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