

ADEOYE SHERIFF OLUWAGBENGA

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RESEARCH INTERESTS

- Medicinal Chemistry
- Organic Synthesis
- Food Chemistry
- Phytochemistry
- Natural Product Chemistry
- Mechanism of Drug Resistance
- Nano Medicine
- Computational Chemistry

EDUCATION

University of Ilorin, Kwara State, Nigeria PhD Industrial Chemistry Supervisor: Prof. M.F Zubair	Inview
University of Ilorin, Kwara State, Nigeria M.Sc. Industrial Chemistry Supervisor: Prof. M.F Zubair Thesis: Extraction, Characterization and Cosmetic Application of Oils from Underutilized <i>Mangifera indica L.</i> and <i>Entada Africana</i> Seeds.	2018
University of Ilorin, Kwara State, Nigeria B.Sc. (HONS) Industrial Chemistry Grade: Second Class (Upper Division) Supervisor: Prof. O.O Oluwaniyi Thesis: Effect of Blanching on the Nutritional Composition, Phytochemicals and Antioxidant Activities of the Leaves of <i>Celosia Argentea</i>	2014
Badagry Grammar School, Badagry, Lagos State, Nigeria Senior Secondary School Certificate Examination (SSCE)	2007

RESEARCH EXPERIENCE

- Master's (M.Sc) Thesis:** Extraction, Characterization and Cosmetic Application of Oils from Underutilized *Mangifera indica L.* and *Entada Africana* Seeds.
- Optimized extraction methods for high-yield and pure oils from *Mangifera indica L.* and *Entada Africana* seeds.
 - Conducted a comprehensive literature review on oil extraction and characterization.
 - Conducted detailed chemical characterization, including fatty acid profiles and bioactive compounds using GC-MS and HPLC.
 - Developed and tested stable, effective, and safe cosmetic formulations incorporating the oils.
 - Evaluated antioxidant capacity and antimicrobial activity, highlighting potential as natural preservatives.
- Undergraduate (B.Sc.) Thesis:** Effect of Blanching on the Nutritional Composition, Phytochemicals and Antioxidant Activities of the Leaves of *Celosia Argentea*
- Designed and refined blanching methods to maintain nutritional and phytochemical component of *Celosia argentea* leaves.
 - Conducted detailed analyses of macro and micronutrient content in both blanched and unblanched leaves.
 - Identified and quantified significant phytochemicals using advanced techniques like HPLC and mass spectrometry.
 - Evaluated the impact of blanching on antioxidant activities using assays such as DPPH and ABTS.

HONORS AND AWARDS

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| • Fellow of Young Africa Leader Initiative (West Africa Leadership Center) | 2019 |
| • Spoke Person of the Year Award presented by Postgraduate Student association, University of Ilorin. | 2018 |
| • Best Student, Senior Secondary, class 2, Badagry Grammar School. | 2006 |
| • Best Student, Senior Secondary, class 1, Badagry Grammar School. | 2005 |

PROFESSIONAL AFFILIATIONS

- Member - Department of Physical and Chemical Science Research committee, Federal University of Health Sciences, Ila-Orangun, Nigeria. 2024
- Member -War Against Substance Abuse Club, Federal University of Health Sciences, Ila-Orangun, Nigeria, 2024
- Candidate - United Nations volunteers. 2022 to date
- Member - The International Younger Chemist Network. 2022 to date
- Member - Chemical Society of Nigeria

RELEVANT WORK EXPERIENCE

Assistant Lecturer | Federal University of Health Sciences, Ila-Orangun, Osun State, Nigeria 2023 – Present

- Taught undergraduate courses including CHM101 (General Chemistry I), CHM102 (General Chemistry II), CHM210 (Physical Chemistry I), and PHA102 (Pharmaceutical Inorganic Chemistry).
- Developed and delivered engaging lectures, ensuring complex concepts were better understood to all students.
- Briefed and supervised students for practical sessions in CHM107 (Experimental Chemistry I), CHM108 (Experimental Chemistry II), and CHM216 (Chemistry Practical II).
- Contributed to the development of Departmental Experimental Practical Manual for 100level and 200level and continuous improvement of the chemistry curriculum for students
- Provided academic advising and mentorship to students, fostering their intellectual growth and guiding them in their academic and career pursuits.
- Achieved a 95% student satisfaction rate in course evaluations, with students reporting a significant increase in understanding complex chemistry concepts.

Associate Lecturer | Kwara State University Foundation Diploma Program, Kwara State, Nigeria 2022 –2023

- Lectured Physical Chemistry in areas of electrochemistry, kinetics and equilibria, as well as conceptual Chemistry for non-science majors.
- Designed, developed, and implemented collaborative learning activities and instructional materials for both classroom and laboratory settings.

Academic Instructor | Winner Advance Learning Institute, Ilorin, Nigeria 2017 – 2022

- Performed the function of teaching [General Chemistry, Physical Chemistry, and Inorganic Chemistry], supervising and evaluating Joint Universities Preliminary Examination Board (JUPEB) and IJMB students.
- Conducted tutorials or review sessions to reinforce course content and assist students in understanding complex topics.
- Played a key role in organizing and coordinating departmental events, seminars, and conferences.

Academic Tutor | International Online Learning Platform (brainly.com) 2020

- Assisted students on brainly.com platform with various chemistry projects
- Used various teaching methods to deliver engaging and effective chemistry lessons to students.

Teacher Assistant (Chemistry) | Federal Government of Nigeria N-Power Volunteer Corp Scheme 2018–2020

- Actively encouraged and motivated students to explore the practical applications of chemistry in various fields.
- Maintained accurate records of students' performance, attendance, and areas for improvement.

Chemistry Teacher (NYSC) | Federal Government N-Power Volunteer Corp Scheme 2014 – 2015

- Taught and assessed Junior and Senior Secondary School Students in Basic Science and Chemistry.
- Deliver lessons effectively, using a variety of teaching methods to engage students and promote critical thinking, creativity, and problem-solving skills.

Undergraduate Research Assistant | University of Ilorin, Nigeria Jan 2014 – July 2014

- Conducted research on the effect of blanching on phytochemical and nutritional composition of *vernonia amygdalina*.
- Managed the research laboratory, ensuring safety protocols and optimal equipment functionality.

PUBLICATIONS

Journal Publications:

- Jaji, B. A., Oloruntele, I. O., Sekoni, H. A., Ibrahim, M. M., & Adeoye, S. O. (2024). Characterization and evaluation of physicochemical properties, phytochemicals, and antimicrobial analysis of coconut oil. *Dutse Journal of Pure and Applied Sciences (DUJOPAS)*, 10(3b), 124–137. <https://doi.org/10.4314/dujopas.v10i3b.13>
- Yusuf, T. D., Bale, S. I., Adeoye, S. O., Adedeji, A. A., Amusan, K. A., & Onipede, G. O. (2024). Antimicrobial effects and phytochemical analysis of guava leaf extracts on selected microorganisms. *Dutse Journal of Pure and Applied Sciences (DUJOPAS)*, 10(3a), 42–48. <https://doi.org/10.4314/dujopas.v10i3a.5>
- Jaji, B. A., Adeyemo, A. A., Adeoye, S. O., Opatokun-Saliu, R. O., & Afolabi, F. (2024). Assessment of some chemical constituents in selected energy drinks in Ilorin, Nigeria. *Dutse Journal of Pure and Applied Sciences (DUJOPAS)*, 10(3a), 107–119. <https://doi.org/10.4314/dujopas.v10i3a.11>

Articles Under Review

- Sarafa, Adeyemi Akeem., Adesewa, Grace Adereti., Peter Akhere Ebabhamiegbebho., Adeoye Sheriff Oluwagbenga., winnifred Oluwaseyi Johnson., Olaide Akinwunmi Akintayo. "Influence of sweeteners and freeze-drying on the quality attributes of sorrel (zobo) drinks." *Food Chemistry Advances*. Manuscript under review.

Papers and Works in Progress

- Antioxidant and Antimicrobial Properties of *P. coccinea* Fruit Extracts: A natural Alternative to Synthetic Food Preservatives
- Investigating the Therapeutic Potential of Mango and Ogurobe Seed Oils in Sustainable Cosmetic Formulations.
- Impact of Post-Harvest processing the Nutritional, Antioxidant, and Antimicrobial Properties of three Leafy Vegetables.

GRANTS AND FUNDING

- **Institutional-Based Research Grant awarded by Tertiary Educational Trust Fund (TETFUND): 2024**
FUHSI/DAP/TETFund/IBR/VOL.1/020
Investigating the Therapeutic Potential of Mango and Ogurobe Seed Oils in Sustainable Cosmetic Formulations. Grant Fee of 4,774,000 Naira.

TECHNICAL SKILLS

- Teaching and Research
- Presentation of Research Findings
- Explanation of Complex Chemical Subjects
- Laboratory Techniques: Extraction, Characterization, Antimicrobial Assays
- Instrumental Analysis (UV, IR, GC-MS)
- Laboratory Supervision
- Curriculum Development
- Microsoft Office Suite (Excel, Word, PowerPoint)
- Data Analysis: SPSS

CONFERENCE PRESENTATION

- **Paper Presentation**
Adeoye S.O., Hamzat T.A., Jaji B.A., Oloruntele I.O., Bale S.I., and Ibrahim M.M. Antioxidant and Antimicrobial Properties of *P. coccinea* Fruit Extracts: A natural Alternative to Synthetic Food Preservatives. The International Conference on Functional Foods and Nutraceutical, Nov. 11-14, 2024.

CONFERENCES, SEMINARS & WORKSHOPS ATTENDED

- **Maiden International Conference(Hybrid)** organized by Faculty of Physical Sciences, University of Ilorin, Nigeria - 4th - 8th June, 2024 (Attendee)
- **RSC-Bowen: Computational Chemistry Workshop** organized by Bowen University, Iwo, Osun-state, 25th-28th February, 2024 (Attendee)
- **African Early Career Chemist Workshop & 8th ACS Nigeria Chapter Symposium** at Ibom E-Library Conference Center, Uyo, Akwa-Ibom State, Nigeria - 4th-8th June, 2023 (Attendee)
- **2023 AODI, Chemical Science Lecture and Workshop (Hybrid)** at University of Nigeria, Nsukka 31st May - 1st June, 2023 (Attendee)
- **An intensive workshop on the principle and application of SPSS, R, and MATLAB Statistical Packages** organized by the University of Ilorin Postgraduate Students Association - 30th to 31st of October, 2017
- Seminar presentation on **“Innovative Approaches to Green Chemistry: Reducing Environmental Impact through Sustainable Practices”** at the Department of industrial Chemistry, July 21, 2017. (Presenter)

LEADERSHIP, COMMUNITY SERVICES AND VOLUNTEERING

- Guest Speaker | YOUNG AFRICA LEADER INITIATIVE (West Africa Regional Leadership Center)** 2019
 - Presented a paper on the topic: Building a total human from scratch. For selected 50 High School Students across the Ilorin metropolis, Kwara state, Nigeria.
- Guest Speaker | Union of Campus Journalists, University of Ilorin Chapter** 2019
 - Presented a paper on the topic: Youth as the Frontiers of formidable African State.
 - Engaged and interacted with other youths on how to increase youth participation in national development.
- Head of Department (Science)** - Winners Advance Learning Institute, Ilorin 2017-2019
- Secretary (NYSC)** - Gender and SERVICOM CDS group, Lagos 2014-2015
- Vice President** - Muslim Corpers Association of Nigeria, Lagos Chapter 2014-2015
- Department Representative** - Department of Chemistry, University of Ilorin 2009-2011
- Assembly Prefect** - Badagry Grammar School, Lagos, Nigeria 2006-2007

LANGUAGES

- English
- Yoruba
- French: Basic

TEACHING PHILOSOPHY

My aim as an educator is to ensure that each and every student is welcomed in class. This idea necessitates my personal shift to a student-centered approach, which provides space for inquiry-based learning, critical thinking, and collaborative learning. I want to assist my students in seeing the world beyond the classroom through exposure to the real-life applications and innovative teaching methods.

REFERENCES

- **Professor Oluwaniyi O. O.**

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The University of Ilorin, Nigeria
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- **Professor Zubair M. F.**

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- **Dr Saliu O. D.**

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