

# OMODOLAPO PRECIOUS WAHAB

Oyo State, Nigeria | [LinkedIn](#)

Mobile Phone: +23490-6945-8371 | [omodolapowahab72@gmail.com](mailto:omodolapowahab72@gmail.com)

## EDUCATION

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**Ladoke Akintola University of Technology**  
**Bachelor of Technology (B.Tech) Pure & Applied Chemistry**  
**Grade: CGPA: 4.02/5.0 (I-WES-3.46/4.0) || Rank: Top 1%**

**Ogbomoso, Oyo State.**  
Graduation Date: June 2023.

**Thesis Title:**

In silico analysis of the antidiabetic potential of phytochemicals from Persea americana (avocado) against human pancreatic alpha-amylase and alpha-glucosidase

**Research Interest:** Drug design and discovery, Medicinal Chemistry, Green Chemistry

## RESEARCH EXPERIENCE

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**Research Assistant, Computer-Aided Drug Design Laboratory**

**Feb 2022-June 2023**

Ladoke Akintola University of Technology, Oyo State, Nigeria

- Actively participated in professional development activities, including attending seminars, workshops, and webinars to enhance proficiency in project management, communication, and administrative support.
- Conducted molecular simulation, drug-likeness, lead-likeness analysis, and ADMET profiling, alongside molecular docking protocols on *Urtica dioica*, targeting the human androgen receptor and PTEN tumor suppressor.
- Received training on showcasing clear and concise scientific writing skills, adherence to publication guidelines, and effective communication of research outcomes.

**Undergraduate Research Team Lead, Computer-Aided Drug Design Laboratory**

**Jan 2022 – Feb 2023**

Ladoke Akintola University of Technology, Oyo State, Nigeria

- Undergraduate research project on in silico analysis of the antidiabetic potential of phytochemicals from *Persea Americana* (Avocado) against human pancreatic alpha-amylase and alpha-glucosidase.
- Collaborated with Prof. Abdul-hammed to design and develop research strategies and identify research gaps; after consulting an initial 54 scientific publications to ensure we utilize effective methodology and facilities.
- Investigated and studied the molecular interactions and binding mode of the selected lead compound with the active sites of target receptors

## WORK EXPERIENCE

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**BUREAU VERITAS (African quality assurance laboratory)**

**Ogun state.**

Laboratory Analyst

Jan 2024 – Present.

- Played a pivotal role in validating test methods through the rigorous application of Proficiency Testing and Certified Reference Materials, ensuring the precision and reliability of analytical procedures.
- Led the development and validation of test methods in strict adherence to International standards for testing and calibration laboratories (ISO 17025 standards), ensuring the accuracy and reliability of results.
- Managed the chemical analysis and wet chemistry laboratory.

**Chemistry Laboratory Complex, LAUTECH**

**Ogbomoso.**

Internship

Jul 2021 - Jan 2022

Supervisor Name: Pastor Akanji S. B

- Played in synthesizing biogas from food and animal waste, advancing research in sustainable energy solutions.
- Contributed to producing various household products including bar soap, liquid soap, air freshener, bleach, body cream, and disinfectant, utilizing diverse techniques.
- Engaged in separation techniques such as filtration centrifugation and column chromatography for the purification of mixtures.

## CONFERENCES AND CERTIFICATIONS

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### Conferences

- Conference on Coastal Resilience and Climate Adaption | Purdue University • Evolution in Chemistry Practice | ACS 2021.
- Organosulfur and related compounds; synthesis, biological activities, and applications as Agricultural pesticides | Prof. E.T Ayodele • Computational biophysical chemistry | Prof. M.Abdul-hammed, Prof. B. Semire. • Global Environmental Climate Conservation Initiative | GECCI 2024

### Certifications || [CLICK HERE](#)

- Introduction to Academic Writing | Coursera • Pharmacokinetics | Coursera • Women in Leadership Program for Young African Women | The Learnaholics Academy • The book Publishing Process | An Elsevier Author Workshop

## PUBLICATIONS || [CLICK HERE](#)

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- Phytochemicals from Avocado as Potential Inhibitors of Alpha-Amylase and Alpha-Glucosidase: A Computational Study. (Submitted to the Faculty, for Publication).
- Assessment of Groundwater Contamination and Bioaccumulation Risks Due to Mining-Induced Land Deformation in Southern Nigeria (DOI: [10.33552/AHM.2024.02.000535](https://doi.org/10.33552/AHM.2024.02.000535))

## LEADERSHIP AND VOLUNTEER EXPERIENCE

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### Sustainable Development Goals Organization

Team Lead

Ogun State.

Jan 2024 - Present

- Taught over 75 A-level students organic, physical, and analytical chemistry.
- Facilitated distribution of educational resources to 150 underprivileged children through NGO partnerships.
- Coordinated and executed 3 projects focused on SDG 4, Quality Education.

### MyCareerhubAfrican

Programming Language Instructor

Ogun state.

Feb 2024 – May 2024

- Aligned with Sustainable Development Goals (SDG) 5 to promote quality and innovative education.
- Partnered with myCareerhubAfrican to teach 65 students programming languages, with a focus on JavaScript and fundamental programming concepts.
- Facilitated a significant 60% increase in participants' digital skills.

## PROFESSIONAL AFFILIATIONS

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- American Chemical Society (ACS) • Student Chemical Society of Nigeria (SCSN) • Millennium Campus Network 2020 fellow

## TOOLS

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**Computer Literacy:** • Microsoft Office Suite • Google Suite • Power BI, **Chemical Software:** • Chem Draw • ChemSketch • discovery – studio • pyrex • PyMOL • AutoDock • Mendely • Zotero, **Analytical Equipment:** • UV-Visible Spectrophotometer • Scanning Electron Microscope • Soxtherm • Kjeldahl apparatus • Moisture analyzer • Fibretherm • High Performance Liquid Chromatography • ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry).

## HONORS & AWARDS

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- Most dedicated ACS LAUTECH student chapter executive award. Presented by the chapter faculty advisor (2023).
- Recognized as the Most Dependable Graduating Student for consistent service as the Class Representative throughout my academic journey at Bright Star Group of Schools, 2014.