Ayodele SALAUDEEN

Sustainable Aquaculture Enthusiat

CONTACT

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EDUCATION

- **2025 - Current**

  Nantes University (FRANCE)

  Master in Environmental Management with focus on Ecosystem Monitoring and Biodiversity restoration

- **2024 - 2025**

  University of the Highlands & Islands (UK), University of Crete (Greece)

  Joint Master's Degree in Aquaculture, Environment and Society (ACES)

- **2016 - 2022**

  University of Ilorin, Nigeria

  Bachelor in Agriculture with focus in Animal production

  GPA: 4.24/ 5.0 (top 3 %)

CERTIFICATION

Certificate of Internship at Fish Physiology Laboratory, University of Crete, Greece.,

LICENSES

- International driving license.
- Driving license.

VOLUNTEERISM RECOGNITION

Animal Science Students Study Forum, University of Ilorin. Recognized for exceptional mentorship and academic support to freshers

LANGUAGES

- English (Fluent)
- French (Basic)
- Greek (Basics)

PROFILE

Master's student in Aquaculture, Environment, and Society with expertise in sustainable aquaculture systems and environmental monitoring. Skilled in fish physiology, water quality assessment, and data-driven ecosystem management. Passionate about advancing regenerative aquaculture and biodiversity restoration through innovative research

WORK EXPERIENCE

FISH PHYSIOLOGY LABORATORY, UNIVERSITY OF CRETE.

2025

RESEARCH INTERN

Evaluation of a Cholesterol–High-Density Lipoprotein–Glucose (CHG) Index for Assessing Metabolic Health in Fish

Responsibilities

Experimental Design and Biochemical Analysis

- Conducted biochemical analyses on fish blood samples (glucose, triglycerides, total cholesterol, HDL, LDL, and total proteins) to explore metabolic health indicators and stress response in European seabass.
- Designed and executed experiments for developing a Cholesterol–HDL–Glucose (CHG) index in European seabass *Dicentrarchus labrax*.
- Applied spectrophotometric and enzymatic assay techniques for accurate biomarker quantification.
- Analyzed physiological data using statistical tools (R, SPSS) to identify correlations between lipid and glucose metabolism.
- Contributed to sustainable aquaculture research by investigating health and nutritional status in farmed fish.

- **Machine Learning Training**
- Assisted in training an algorithm to detect skeletal deformities in European seabass using image-based machine learning techniques.
- Prepared and annotated datasets for model development and validation.
- Supported integration of AI tools for improving fish welfare monitoring in aquaculture systems

Koumoundouros Fish Biology Laboratory, UNIVERSITY OF CRETE.

2025

Aquaculture Research Trainee

Experimental Study on Early Detection of Skeletal Deformity Indicators in Sea Bream (*Sparus aurata*)

Responsibilities

- Investigated the effect of tank orientation and water flow distribution on skeletal deformities during larval development of seabream.
- Conducted salinity-based water testing to identify air sac anomalies associated with deformities.
- Participated in image-based machine learning analysis for early detection of deformities, improving predictive accuracy.
- Applied experimental design and data interpretation to assess environmental factors influencing skeletal health.

HONOURS & AWARDS

Erasmus Mundus Scholarship
Awarded by the European Union to pursue a two-year Joint Master's in Aquaculture, Environment, and Society (ACES), hosted by three leading European institutions: University of the Highlands and Islands (UHI), University of Crete (UoC), and University of Nantes (UoN).

PROFESSIONAL & RESEARCH SKILLS

- Knowledge of Excel and Microsoft word Intermediate Knowledge of SQL, R and the SigmaStat tool for research analysis Quantitative and Qualitative fieldwork
- Research Competencies Fish maintenance in RAS and hatchery systems.
- Fish handling, anesthesia, blood sampling, and welfare assessment. Biochemical, hematological, and hormonal indicators of fish health.
- Environmental impact assessment and water quality monitoring. Data analysis, scientific presentation, and teamwork in international settings

SOFT SKILLS

- Adaptability & rigorous
- Attention to detail, teamwork
- Work ethic

CONFERENCE & WORKSHOP

Aqua-Feed Innovation Workshop
- Training on sustainable feed formulation, valorization of fishery by-products, and development of functional ingredients for fish health.

Circular Economy in Aquaculture
- Seminar Focused on resource efficiency, waste reduction strategies, and valorisation pathways for aquaculture residues within a circular economy framework.

WORK EXPERIENCE

THE INTERNATIONAL LIVESTOCK RESEARCH INSTITUTE (ILRI), NIGERIA — **2021**
Research Assistant

Responsibilities
- Collected fish processing residues (heads, frames, viscera) and performed proximate composition analysis (protein, lipid, moisture) to assess suitability for feed formulation.
- Prepared fish hydrolysates and oils from by-products and documented their nutritional characteristics for use as functional feed ingredients.
- Develop experimental protocols for evaluating digestibility, growth performance, and immune response in African catfish Clarias gariepinus fed diets containing valorized ingredients.

Main Achievements
- Authored a technical report detailing sustainable valorization pathways for aquaculture by-products, integrating nutritional and physiological considerations.

ACADEMIC EXPERIENCE

MSc in Aquaculture | University of Crete, Greece (in partnership with UHI and Nantes University) — **2025**

Comprehensive coursework and practical training in Mediterranean aquaculture systems, covering
- Overview of Mediterranean aquaculture, welfare, sustainability, environmental impact assessment, mariculture technologies, genetic traits, automation, and European policy frameworks in coastal and intensive farming systems
- Finfish and shellfish aquaculture practices, including hatchery and grow-out operations.
- Fish welfare, sustainability, and environmental impact assessment in coastal and intensive farming systems.
- Mariculture technologies, genetic improvement, automation, and European policy frameworks for aquaculture.
- Shellfish aquaculture techniques (oyster and mussel farming), site selection, biosecurity, and water quality

Undergraduate Degree Dissertation | University of Ilorin, Nigeria — **2022**

Dissertation Topic
- *In vitro toxicity evaluation of sesame secondary metabolites and possible dietary adverse effects of long-term intake in monogastric animals.*

Main Achievements
- Designed and implemented in vitro experiments to assess the toxicological impact of sesame-derived secondary metabolites on monogastric animal health.
- Developed and tested dietary formulations for broiler performance while investigating plant-based alternatives to antibiotics, including probiotics, prebiotics, and phytogenics.
- Conducted literature reviews, collected experimental data, and performed statistical analyses to interpret effects on livestock health, welfare, and productivity indicators.
- Delivered a comprehensive technical report providing evidence-based recommendations for the safe inclusion of sesame metabolites in monogastric diets.

Undergraduate thesis achieved top 3% in the class with a cgpa of 4.25/5.0

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WORKSHOPS & COURSES

ONLINE COURSE IN LABORATORY ANIMAL SCIENCE — **2025**
Ghent University, Belgium Duration: 80h Follows the guidelines from FELASA C courses, thus granting the ability to function as a person directing animal experiments as recognised by the Environment, Nature and Energy Department of the Flemish government and by Bruxelles Environment. Online theoretical lectures with practical tips and tricks – ranging from legislation, animal morphology/physiology and experimental techniques to statistical analyses, thus providing the basis for laboratory animal work. 3.5 h practical session included writing of an application of a research project to the ethical review committee.

ASSG Conference – Association of Scottish Shellfish Growers — **2024**
Corran Halls, Oban, Scotland.
Theme: Scottish cultivated shellfish; assuring value
- Attended sessions on shellfish aquaculture innovations, biotoxin research, and industry sustainability.
- Networked with researchers and industry professionals in shellfish farming.

K⁎ (KSTAR) COURSE - SCIENCE COMMUNICATION — **2024**
United Nations University, Scotland Duration: 3 days Introduction to the K⁎ concept: knowledge translation, exchange and brokering. The goal is to improve ways to communicate science to a broad audience in order to bring about more effective and sustainable change. Included both written and practical exercises, such as transforming scientific abstracts into newspaper articles, role-play briefings and identification of key stakeholders.

PUBLICATIONS AND WORKING PAPERS

Development and Evaluation of a Cholesterol–High-Density Lipoprotein–Glucose (CHG) Index for Assessing Metabolic Health in Fish — **2025**

Nutritional, Haematological, and Biochemical Evaluation of Beniseed from Central Nigeria with Emphasis on Phytotoxic Components. — **2024**

In vitro toxicity evaluation of sesame secondary metabolites and possible dietary adverse effects of long-term intake in broiler chicks. — **2022**

REFERENCE

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