Mofetoluwa Daniel Akinkoye

[makinkoye@gsumail.gram.edu](mailto:makinkoye@gsumail.gram.edu) | +1 (914)-774-1918 | [LinkedIn](https://www.linkedin.com/in/mofetoluwa-akinkoye/)

# EDUCATION:

Grambling State University | **GPA:** 4.0/4.0 (August 2023 – May 2027)

# Bachelor of Science with Honors, Biology

**Relevant Courses:** Biology, Calculus, Organic Chemistry, Chemistry, Ecology, Anatomy and Physiology.

**Awards and Honors:** Academic Achievement Award Recipient, Earl Lester Cole Honors College Scholar, Louisiana Academy of Science Scholar, 2x President’s List

# SKILLS:

**Molecular Biology Techniques:** RNA Extraction, RNA Quantification, Protein Extraction, Protein Estimation, Western Immuno- Blotting, Quantitative polymerase chain reaction (qPCR), Enzyme-linked immunosorbent assay (ELISA), Tunnel Assay, Flow cytometry, Antibody- Mediated Blocking, Reverse transcriptase synthesizes

**Cell Biology:** Cell culture, Cell splitting and Harvesting, Cell Seeding, Cell counting, Cryogenic storage

**Bioinformatics:** STITCH Model, Molecular docking, Insilco method

# EXPERIENCE

**Bernice Church of Christ |** *Music Director* January 2024 - Present

* Coordinated and conducted weekly worship services, special holiday performances, and community events, managing a choir of 15 members and a team of instrumentalists to create uplifting and spiritually enriching musical experiences.
* Designed and implemented a comprehensive music education program, including rehearsals and workshops, to enhance choir skills and recruit new members, increasing participation by 50% over 6 months.

**National Science Foundation |***Research intern at laboratory of pulmonary Immunotoxicology* May 2024 – July 2024

* Investigated the impact of environmental pollutants (PCP, TCHQ, ECVC, PFOA, PFOS, Carbon nanotubes) on human lung cells, focusing on inflammatory and apoptotic pathways.
* Explored key pathways (Pan apoptotic, immunoproteasome, and Hippo signaling) to evaluate inflammation, cell death, and lung function impairment.
* Utilized qPCR, Western blotting, ELISA, molecular docking, and the STITCH modeling system to analyze the impact of pollutants on specific pathways.
* Aimed to understand the contribution of pollutants to lung diseases, providing insights into potential therapeutic targets.
* Used Insilco methods to predict biological interactions of protein and toxins.

**Grambling State University Molecular Toxicology Laboratory |** *Student Researcher* January 2024- Present

* Current research seeks to study the effects of Pentachlorophenol, a commonly used wood preservative, on inflammatory proteins in TIB-73 mouse liver cells.
* Utilized Western immunoblotting to analyze protein expression levels, ensuring accurate detection and quantification of inflammatory proteins affected by Pentachlorophenol exposure.
* The research seeks to identify the effect of pentachlorophenol on Mouse liver cells, with a focus on understanding the inflammatory microenvironment and identifying inflammatory response proteins.

# LEADERSHIP EXPERIENCE:

**Grambling State University Biology Club |** *Secretary* August 2024 - Present

* Coordinated and documented club meetings, events, and activities. Ensured efficient communication between members and faculty.
* Organized biology-related workshops, seminars, and guest speaker sessions to promote knowledge-sharing and student engagement in the biological sciences

**LS-LAMP |** *Tutor* August 2024 – Present

* Taught research concepts and techniques, and advanced biology to underrepresented minorities interested in science research.

**Grambling State university |** *Resident Assistant* January 2024 **-** Present

* Supported a diverse group of students, fostering a safe and inclusive community while promoting student engagement through programs and mentorship.
* Enforced policies, resolved conflicts, and provided guidance on academic and personal issues.

**OBAFEMI AWOLOWO UNIVERSITY INTERNATIONAL SCHOOL** | *Technical Prefect* September 2021 – August 2022

* Oversaw the setup and operation of sound systems during daily assemblies and special events, ensuring seamless audio experiences for all attendees.
* Collaborated with school staff to maintain and upgrade sound equipment, training team members on proper usage to improve overall efficiency and reliability.

# PRESENTATIONS INCOPERATED WITH RESEARCH:

“Inflammatory tumor microenvironment in TIB-73 mouse liver cells exposed to Pentachlorophenol” **(Grambling state University Annual Symposium and Louisiana Academy of Sciences 2024 & 2025, University of Louisiana academic submit 2024)**