DANIEL ADEWOLE ADEDIRAN

+2349037594588 | adedirandanieladewoleo4@gmail.com | Dexwel | in Danieladediran

PROFESSIONAL SUMMARY

Public health professional with 1+ years of experience in epidemiology, with a focus on data analysis, program management. I am passionate and working on designing, implementing, and evaluating health programs at local, national, and international levels. Strong interest in both quantitative/qualitative research, cross-sectoral collaboration, and policy advocacy.

EDUCATION

Master of Public Health | Bingham University

Jan, 2025- Present

Selected Course work: Epidemiology, Biostatistics, Research Methodology, Health Policy, Global Health

B. Tech Biochemistry | Ladoke Akintola University of Technology Ogbomoso, Nigeria Aug, 2018 – May, 2023

CGPA: 4.36/5.0

Relevant coursework: Molecular Genetics, Forensic Biochemistry, Endocrinology, Neurobiochemistry.

Academic project: Assessment of Zingiber officinales on Tramadol-Induced Nephrotoxicity in Rat

PROFESSIONAL EXPERIENCE

Health Data Scientist | DataLab Nigeria

May, 2024–Present

- Designed educational video content and documentation for Bioinformatics, Linux, and biological databases, contributing to the launch of a scalable Learning Management System.
- Streamlined bioinformatics learning paths by developing structured curriculum modules adopted in training workshops.
- Reviewed and improved bioinformatics scripts used in training, increasing execution efficiency by 25%.

Prompt Engineer Intern | eHealth4everyone

May-Sept 2024

- Designed and deployed an IT Support chatbot using Slack APIs and Chatbase, reducing issue resolution time by 35%.
- Created 5+ structured prompt templates for both PRDs and URDs, improving team productivity by 40% via TeamGPT.
- Started the multi-agent AI system for MSDAT reports used by Federal Health agencies, to reduce the manual reporting time by 60%.
- Worked in a cross-functional AI team to align outputs with epidemiological needs and ensure prompt delivery.

Research & Development Assistant II | Helix Biogen Institute

Jan, 2022–Dec, 2023

• Contributed to peptide-based diagnostic kit development for *Treponema* spp. using in silico bioinformatics approaches.

- Led 17 research interns in computational vaccine design for Nipah virus and COVID-19, facilitating 2 grant proposals.
- Developed standard operating procedures for vaccine design, enhancing reproducibility of results by 50%.
- Coordinated weekly review sessions to improve project timelines and research deliverables.
- Trained 200+ participants in MEGA, Vaxijen, and IEDB toolkit applications for vaccine and immunology research.

Intern | BigDataBiology, Fudan University (Remote)

May-Oct, 2023

- Mastered Python libraries (Pandas, Matplotlib) to analyze and visualize genomic metadata from Shanghai dog samples.
- Completed version control assignments using Git, improving collaborative code sharing.
- Attended weekly feedback meetings with mentors to refine analysis methods and presentation.

Fellow | Oluseun Onigbinde Fellowship

May-July, 2023

- Conducted exploratory data analysis on social data using Excel and Power BI, developing 4 actionable insights.
- Created dashboards that informed local development initiatives

VOLUNTEER EXPERIENCE

Program Officer | SDGs CDS NYSC Tafa LGA

Dec, 2023-Nov, 2024

- Organized 3+ webinars and local education programs promoting climate action and sustainability.
- Secured 3 expert speakers and increased local awareness of SDGs through structured events.
- Shared 10+ funding and training opportunities with corps members, fostering engagement.
- Partnered with LG stakeholders to align community events with SDG principles.

Scientific Manager I | Panoramics-Vision

June, 2023-Jan, 2024

- Built and maintained a database of African single-cell omics researchers, aiding in collaborations.
- Curated and posted 20+ peer-reviewed articles in Slack channels, sparking technical discussion.
- Coordinated monthly theme series on spatial transcriptomic to encourage peer learning.
- Tracked article engagement metrics to refine content strategies.

SELECTED PUBLICATIONS

 Oladipo EK, Olufemi SE, Adediran DA, Adejumo IO, Jimah EM, Oloke JK, Udekwu CC, Ogunwobi OO. Epigenetic modifications in solid tumor metastasis in people of African ancestry. Front Oncol. 2024 Feb 21;14:1325614. doi: 10.3389/fonc.2024.1325614.

- Oladipo, Elijah Kolawole, Seun Elijah Olufemi, Taiwo Ooreoluwa Ojo, Daniel Adewole Adediran, Akindele Felix Idowu, Usman Abiodun Idowu, and Helen Onyeaka. 2023. "Africa (COVID-19) Vaccine Technology Transfer: Where Are We?" Life 13 (9): 1886.
- Oladipo, Elijah Kolawole, Taiwo Ooreoluwa Ojo, Seun Elijah Olufemi, Boluwatife Ayobami Irewolede, Daniel Adewole Adediran, Asegunloluwa Grace Abiala, Oluwaseun Samuel Hezekiah, et al. 2023. "Proteome Based Analysis of Circulating SARS-CoV-2 Variants: Approach to a Universal Vaccine Candidate." Genes & Genomics, August. https://doi.org/10.1007/s13258-023-01426-1.
- Oladipo, E. K., Jimah, E. M., Irewolede, B. A., Folakanmi, E. O., Olubodun, O. A., Adediran, D. A., Akintibubo, S. A., Odunlami, F. D., Olufemi, S. E., Ojo, T. O., Akinro, O. P., Hezekiah, O. S., Olayinka, A. T., Abiala, G. A., Idowu, A. F., Ogunniran, J. A., Ikuomola, M. O., Adegoke, H. M., Idowu, U. A., Akindiya, O. E., ... Adelusi, T. I. (2022). Immunoinformatics design of multi-epitope peptide for the diagnosis of Schistosoma haematobium infection. Journal of biomolecular structure & dynamics, 1–8. Advance online publication. https://doi.org/10.1080/07391102.2022.2111358.
- Oladipo, E. K., Akindiya, O. E., Oluwasanya, G. J., Akanbi, G. M., Olufemi, S. E., Adediran, D. A., Bamigboye, F. O., Aremu, R. O., Kolapo, K. T., Oluwasegun, J. A., Awobiyi, H. O., Jimah, E. M., Irewolede, B. A., Folakanmi, E. O., Olubodun, O. A., Akintibubo, S. A., Odunlami, F. D., Ojo, T. O., Akinro, O. P., Hezikiah, O. S., ... Babalola, M. O. (2022). Bioinformatics analysis of structural protein to candidate Vibrio approach а vaccine against cholerae infection. Immunogenetics, 1-16. Advance online publication. https://doi.org/10.1007/s00251-022-01282-5
- Oladipo, E.K.; Adeniyi, M.O.; Ogunlowo, M.T.; Irewolede, B.A.; Adekanola, V.O.; Oluseyi, G.S.; Omilola, J.A.; Udoh, A.F.; Olufemi, S.E.; Adediran, D.A.; Olonade, A.; Idowu, U.A.; Kolawole, O.M.; Oloke, J.K.; Onyeaka, H. Bioinformatics Designing and Molecular Modelling of a Universal mRNA Vaccine for SARS-CoV-2 Infection. Vaccines 2022, 10, 2107. https://doi.org/10.3390/vaccines1

CERTIFICATIONS

- Project Management Professional (PMP), (ICBMD)
- Next Generation Sequencing (NGS) Analysis (H3ABioNet)
- Single Cell RNA Sequencing Analysis (Human Cell Atlas)
- Train the Trainer Workshop (H3ABioNet, Wellcome Connecting Science and EBI)
- Cancer Genome Analysis Training (Wellcome Connecting Science)

TECHNICAL SKILLS

- **Programming:** R, Python, Bash, Shell scripting
- **Bioinformatics:** Bioconductor, Seurat, DESeq2
- Visualization & Analysis: ggplot2, dplyr, RShiny, pandas, numpy, matplotlib
- **Machine Learning:** supervised learning, random forest, image classification and segmentation.
- Epidemiology Tools: Epiverse packages
- Communication: Canva, PowerPoint, Miro for visual facilitation
- Languages: English (fluent), Yoruba (native)

GRANTS AND AWARDS

- Poster Award Winner of Nnamdi Azikwe Bioinformatic Genomics Consortium, 2022.
- Student Scholarship to attend RNA Therapeutic Symposium: From concept to clinic, 2022.
- Dan kohn Scholarship to virtually attend KubeCon+CloudNativeCon Europe, 2023.
- Recipients of eDNA micro-grant to participate in Physalia course (R package Development), 2023.
- Kagglex Career Development Scholarship recipient, 2023.
- Scholarship to attend Rotavirus conference 2023 at Abuja, Nigeria.

SCIENCE COMMUNICATIONS

- Poster presentation at Nnamdi Azikiwe Bioinformatic Genomics Consortium
- Seminar presentation on Design of diagnostic kit for Schistosoma haematobium infection
- Group presentation on Identification of drug target in differentially expressed genes
- Beyond Science Initiative conference 2023 on the computtion design of mRNA Vaccine for Lassa virus infection [Conference 2023 | 20230271 | Daniel A. Adediran]
- Poster presentation at Africa Rotavirus conference on Rotavirus Infection in Africa: Unravelling Genetic Diversity for Targeted Intervention

PROFESSIONAL AFFILIATIONS

- H3ABioNet Trainer Network
- International Society of Computational Biology
- Human Cell Atlas
- Carpentry Instructor Community
- Africa Society of Bioinformatics and Computational Biology