DOLAPO AJAYI

London, England

dolaajayi@hotmail.com, Blog, Git Repo

Professional Profile

In my seven years of experience, I have worked as a bioinformatician on projects ranging from epidemiology to cancer biology research. And my aim is always to attain the scientific, clinical and economic sweet spot in my projects. During my experience, I have acquired and developed strong computing, software engineering and stakeholder management skills. I have extensive experience of working with Linux, Bash, Python and R programming, HPCs, virtual machines, AWS cloud computing, Docker and Apptainer containerisation, APIs, Git version control, code review and more.
I am keen to work with, and partner on bioinformatics and data science projects. You are welcome to contact me to arrange a call to discuss projects.

Education

MSc Clinical Science - Genomic Sciences (Clinical Bioinformatics Genomics) — University of Manchester, Degree due September 2025

MSc Bioinformatics with Systems Biology — Birkbeck College, 2017

Career Experience

The Royal Marsden Hospital, London — **Sept 2022 – Present as Trainee Clinical Bioinformatics Scientist**

- I currently lead on the development of a clinical homologous recombination deficiency (HRD) test for patients with High Grade Ovarian Cancer. **Success will save the RMH hundreds of thousands of pounds annually and increase the turn-around time for this test by at least 24hrs.**
- I have developed command line interface tools for bioinformatics tasks to extract and analyse variant call data.
- I developed and delivered training for version control and code reviewing of all script and software development in the bioinformatics team for clinical use.
- Working as a trainee clinical scientist I comply with ISO standards and legislative regulations like GDPR.

The Royal Marsden Hospital, London — **Jan 2022 – August 2022 as Bioinformatician**

- Working with Rocky Linux (HPC) and Mac OS, I ran and troubleshooted the clinical bioinformatics pipeline on the HPC Cluster for the analysis of various NGS data e.g. panel, exome, RNAseq, WGS, lcWGS, ctDNA.
- I managed and curated data stored within the SQL database, pulling, adding and modifying data stored.
  - I worked on improving the sensitivity and specificity of the cfDNA pipeline.

UCL Cancer Institute, London — **March 2019 –December 2021 as Research Bioinformatician**

- I investigated the methylome landscape of undifferentiated sarcoma using various data types including Reduced Representation Bisulphite Sequencing (RRBS) Illumina Infinium Methylation Array data (27K/450K/850K). My work contributed to the publication "*Signatures of copy number alterations in human cancer*" in Nature journal.

Animal and Plant Health Agency, Addlestone **February 2018 – March 2019 as Bioinformatician**

- I successfully developed and ran an NGS pipeline for salmonella serovar identification and surveillance in the UK.
- I completed phylogenetic analysis of bacteria samples for an epidemiological project entitled, the "*Role of wild birds and environmental contamination in the epidemiology of Salmonella infection in an outdoor pig farm*", which was published in Veterinary Microbiology.
- I was pleased to be awarded the APHA Team Award 2019 with the Salmonella Surveillance team for our work on monitoring notifiable salmonella serovars in the UK .

Certifications & Licenses

Essentials of Digital Clinical Safety (DCS) Certificate on LinkedIn — NHS Digital, 2024

Good Clinical Practice (GCP) Certificate — National Institute for Health & Care Research, 2024

Registered HCPC Clinical Scientist (Bioinformatics) (working toward) — Health & Care Professions Council, 2025

Hobbies & Interests

I'm an avid reader of history, philosophy, science, theology, anthropology and more. I enjoy doing calisthenics, cycling, football, tennis and weightlifting.