DOLAPO AJAYI

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Professional Profile & Pursuit

I am a highly reliable, project focused bioinformatics & data scientist.
With over 6 years of experience accrued, I am self-driven, and I enjoy developing pipelines and drawing out analytical insights that are scientifically impactful.
I am especially looking for a position as a bioinformatics or data scientist to continue to discover, learn and build.

Career Experience

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

- In addition to the duties mentioned in my previous RMH role, I have developed and continue to develop new **Command Line Interface Tools** for various bioinformatics tasks e.g. uploading and retrieving data and detecting sample contamination.
- I am currently conducting research on the detection of Homologous Recombination Deficiency, and I have developed a pipeline for this purpose.
- As part of data analysis in my research and clinical work I measure performance metrics and apply **Statistical Tests** to assess the significance of differences and relationships in clinical data.
- My coursework provided opportunity to once again engage in explorative data analysis, this time on **single cell RNAseq data using data science packages from Python**.
- In my investigative work, I've used non-classical statistical methods like **Machine Learning** to predict classified data. I've also used **Bayesian Analysis**.
- I use **Git**, GitHub, **Agile** and **CI/CD** methodology in the development of all software I work on.
- I contribute to and conduct **validations**, **verifications**, **audits**, **risk assessments**, SOP writing & their maintenance. I also **raise non-compliances**, apply **root cause analysis**, **assess clinical impact**, **suggest remedial and corrective action** when errors with clinical impact arise.

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

- I managed and ran the **clinical bioinformatics pipeline** on the **High-Performance Computing** (**HPC**) Cluster for the analysis of various NGS data, including tumour & germline **Gene Panels**, **WGS**, **WES**, **RNAseq** and **ctDNA** data.
- I quickly developed a thorough understanding of the Clinical pipeline and service more broadly, enabling me to **troubleshoot analysis issues** raised by clinical and research scientist colleagues to ensure smooth running of both the diagnostic service and translational research.
- I curated data stored within the **SQL database**, pulling, adding and modifying data stored.

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

- My main project here was to investigate the methylome landscape of Undifferentiated Sarcoma using **Reduced Representation Bisulphite Sequencing (RRBS) Illumina Infinium Methylation Array data (27K/450K/850K).**
- I **developed NGS pipelines** for processing **RRBS** and **Infinium Methylation Array data**.
- I investigated the epigenetic data **using various data science and statistical methods** contributing to publication: https://doi.org/10.1038/s41586-022-04738-6.
- I worked as **bioinformatics support to lab group colleagues, inter-group collaboration** within the institute and with external researchers.
- I regularly **presented research findings and papers** to weekly lab group and journal clubs.

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

- Here **I developed and maintained an NGS pipeline** for salmonella serovar identification and surveillance in the UK.
- It was here that I translated a pipeline written in Bash into Python and in doing so I learnt to code using Python.
- I learnt and carried out **phylogenetic analysis** of bacteria samples, including for publication: https://doi.org/10.1016/j.vetmic.2018.11.003.
- I wrote Standard Operating Procedures for quality control, NGS pipeline usage, Virtual Machine usage etc.

St George's Healthcare NHS Trust, London **September 2013 – February 2018 as Biomedical support worker**

- I was regularly rostered on **tissue embedding** - orientating the tissue correctly in preparation for microtomy.
- I did **microtomy** - using a microtome to cut thin sections onto slides for staining.
- I also did **tissue staining** for microscopic diagnosis and prognosis e.g. immunofluorescence.
- I wrote up and maintained Standard Operating Procedures.

Education

MSc Clinical Science - Genomic Sciences (Clinical Bioinformatics Genomics) **University of Manchester, Expected completion in 2025**

MSc Bioinformatics with Systems Biology **Birkbeck College, 2017**

BSc Biomedical Science (Hons) **London Metropolitan University, 2013**

Bioinformatics and Data Science Blog: https://dolapoa.github.io
IT Skills: Strong proficiency in MS Office, **System Administration** of **Linux Operating Systems**. Strong proficiency in Command Line Interface, **HPC & VM usage**. Experienced in version control with **Git** and **GitHub**: https://github.com/DolapoA, and the iterative development cycle – including **Agile** plus **CI/CD**.

Coding/Scripting Languages: Bash, Python, R, HTML, CSS, MySQL

Languages: English native, beginner Spanish.

Achievement(s) & Interests

Award: APHA Award for Best Lab Group, Salmonella Testing Team, 2018
I'm an avid reader and I enjoy calisthenics, cycling, football, tennis and weightlifting.