

Hussein Kassir

London | h.kassir99@gmail.com | +44 (0)7424 942047 | github.com/kassirhussein

EXPERIENCE

Queen Mary, University of London

London, United Kingdom

Genomic Data Scientist

Mar 2025 – July 2025

Project: Functional Genomics & Drug Target Analysis

- Led the processing of large-scale phenotypic and genotypic datasets (IMPC, Open Targets) using Python, R, and Unix shell scripting.
- Transformed and harmonised data to align identifiers (e.g., gene symbols, Ensembl ID) in R, ensuring accurate downstream analysis.
- Delivered project insights through regular presentations to communicate project results.
- Engineered reproducible data pipelines with Git version control, supporting collaboration with bioinformaticians and researchers.

Postgraduate Research Assistant

Jun 2024 – Dec 2024

Project: Genotype-Phenotype Correlations in Neurodevelopmental Disorders

- Performed quality controls on a 4000+ patients' genomic datasets, ensuring data integrity by identifying and removing duplicate family IDs.
- Applied variant annotation tools (VEP, Exomiser) to assess WES/WGS data, refining variant classifications according to ACMG guidelines.
- Mapped and compared genotype-phenotype correlations against curated disease panels (PanelApp) to support data accuracy and scientific discovery.
- Introduced a variant analysis pipeline using Ensembl VEP to re-evaluate Variants of Unknown Significance by comparing predicted molecular consequences with patients' phenotypic terms.

Ezeldin Pharmacy

Beirut, Lebanon

Chief Pharmacist

Apr 2022 – Dec 2023

- Supervised two pharmacy staff to ensure accurate dispensing of medications, maintaining compliance with clinical standards and ensuring patient safety.
- Assessed monetary reports by reviewing and providing feedback to the manager on expenses, sales, and profit.

Assistant Pharmacist

Sep 2019 – Mar 2022

- Provided advice on illnesses, medications, and treatments to over 30 patients daily and improved surveyed patient satisfaction scores by 15%.

EDUCATION

MSc Genomic Medicine, Queen Mary University of London (Distinction)

Jan 2024 – Jan 2025

Modules covered include Bioinformatics, Interpretation, and Data Quality Assurance in Genome Analysis, Genomics of Common and Rare Diseases, Ethics, Omics Techniques, Molecular Pathology of Cancer

BS Pharmacy, Lebanese International University

Oct 2011 – Jul 2018

Modules covered include Pharmacogenomics, Therapeutics.

SKILLS

Programming & Scripting: Python, R, Unix shell (Bash), SQL

Bioinformatics Skills: GWAS, WGS, WES, genotypic & phenotypic datasets, VEP, Exomiser, BioMart.

Languages: English (Bilingual proficiency), French (Full professional proficiency), and Arabic.