

Dr Huda Alfardus, Ph.D.

DATA SCIENTIST

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Brining 5+ years of experience in academic research in data science, along with 8+ years of project management experience to transform your organisation.

PROFESSIONAL CERTIFICATIONS

- PECP Certified Python Programmer - The Python Institute, 2020
- PRINCE2® Certification in project management, AXELOS UK, 2020
- Genomic Data Science Specialization - John Hopkins University via Coursera, 2020
- Bioinformatics Summer School Wellcome Genome, UK, 2002
- Hands-on Data Analysis for Metabolic Profiling - Imperial College London, UK, 2020
- Data Interactions and Networks, European Bioinformatics Institute, Cambridge, UK, 2014
- R object-oriented programming and package development - University of Cambridge, 2014

EXPERIENCE

Postdoctoral Research Fellow | University of Leeds

SEP 2019 - present, Leeds, UK

- Managed a multi-disciplinary genomic data science project to identify biomarkers and novel therapeutic targets for diabetic vascular disease and high-grade brain cancers.
- Supervised and mentored BSc and MSc project students.

Representative Board Member | LeedsOmics

SEP 2020 - present, Leeds, UK

- Developed data analysis workshops to solve identified data science training needs.
- Organised networking events for local data scientists to inspire and facilitate project collaborations.

Computational Biology Teaching Assistant | University of Nottingham

SEP 2016 - 2019, Nottingham, UK

- Delivered computer lab sessions for University students.
- Contributed to the development of the teaching material.

EDUCATION

BrainStation | Data Science Diploma | Women in Technology Scholarship

SEP 2020 - DEC 2020, TORONTO, ON

University of Nottingham | Ph.D in Genomics Data Science | School of Medicine Scholarship

SEP 2015 - JUL 2020, NOTTINGHAM, UK

University of Nottingham | Bachelors in Genetics | First-Class Nottingham Advantage Award | Tom Day's Award

SEP 2012 - JUL 2015, NOTTINGHAM, UK

SKILLS

Programming languages (Python, R), Machine Learning (Logistic Regression, Decision Tree, Support Vector Machine, Naive Bayes, K-Nearest Neighbors, K-Means Clustering, Random Forest, Dimensionality Reduction Algorithms), Deep Learning and Artificial Neural Networks (PyTorch, TensorFlow, Apache Spark), Cloud Computing (AWS), Development environments (Jupyter Notebooks, Python IDLE, RStudio), Version Control Systems (Git and Github), Data Wrangling (R Tidyverse Python Pandas), Data Visualisation (Tableau, Matplotlib, Seaborn, Bokeh, Plotly, ggplot2), Database Management (MySQL), High-throughput Biomedical Data Analysis (Transcriptomics, Proteomics, Metabolomics), Statistical Data Analysis (GraphPad Prism, SPSS).

PROJECTS

Hackseq | Team Member

Jun 2020,

HACKATHON

Used SARS and MERS public datasets to compare gene expression change from early and late time points of disease infection.

Parasites Vulnerabilities | Lead coder

Feb 2016-2017,

RESEARCH

Used in-house Python and R-Bioconductor scripts to identify components of protein complexes at closely-related African parasites species.