

EDUCATION

- **University of St Andrews** Scotland,UK
MSc in Applied Statistics and Data Mining with Distinction in Dissertation ; Merit (79.6 %) Sep. 2016 – Sep. 2017
Dissertation: *Binary Classification of pedestrians in Video data using Convolutional Neural Networks and GPU hardware* (Software: Python 3.0 ,Open CV, Keras ,Tensor Flow)-Distinction (86 %).
- **University College London** London,UK
MSci in Theoretical Physics ; 2:1 Sep. 2010 – Sep. 2014
Dissertation: *Calculating the wave functions of Highly excited Helium atoms due to the dipole-dipole interaction in Rydberg states* (Software :Fortran 77) - Merit (64 %).
- **Merton College,Morden** London,UK
A Level - Mathematics,Further Mathematics, Physics ; AAB Sep. 2007 – Sep. 2009

EXPERIENCE

- **Public Health England** London ,UK
Public Health Intelligence Analyst - Higher Executive Officer October 2019- Current
 - Supporting Indicator Production for Public Health England Fingertips profile.
 - Develop automated QA pipelines using R markdown and SQL
 - Production and running indicators developed using Python programming language.
 - Support in analysis using national level datasets including Mental Health Dataset and CPRD (THIN) databases.
- **Barts Health NHS Trust- NICOR** London ,UK
Higher Information Analyst - Statistician May 2019- October 2019
 - Perform statistical analyses on data from six national cardiovascular data sets
 - Redeveloping Existing Code base in R using R mark down and Drake Package.
 - Development of Shiny Dashboards conveying national level outcome measures
 - Collaboration with researchers working on projects that involve analysis of NICOR data.
 - Develop data-cleaning processes in a team environment that promotes re-usability of code and standardisation of practices across the NICOR audits.
- **National Physical Laboratory** London,UK
Research Scientist for Grand Challenge Cancer Research UK Project Nov 2017 – Nov 2018
click-here 
Automated scripts and web scraping (Python),Parsing and Analyzing Large Databases (XML),Data wrangling and analysis through R packages (dplyr,tidyr) ,Novel visualizations in R (ggplot2,shiny dashboard),Unsupervised and Supervised Modelling (Multiple Correspondence Analysis , Naive-Bayes, Classification Trees, Linear Regression , Correlation Analysis)
Poster sessions presented at :
 - The 5th SIG Mass Spectrometry Imaging Symposium, Sheffield Hallam University, UK.(2018, April) click-here 
 - The 3rd PGI conference , University of Strathclyde, Glasgow, UK (2018 , October) click-here 

- **Oxleas NHS Foundation Trust**




Kent,UK

Graduate Information Analyst

Mar 2016 – Aug 2016

- Be responsible for producing key reports for the Trust including Trust -KPIs, Delayed Transfers of Care and Quality and Safety Improvement Plans on a monthly basis.
- Be responsible for producing daily, weekly, monthly quarterly reports used by clinical business managers, ensuring they are timely, accurate and produced in accordance with the Trust procedures and timetables.
- Providing analysis and interpretation of data using dashboards, written or verbal reports, within a variety of formats, systems and methods (MS Excel, PowerPoint, Tableau, and SQL).

PROJECTS

- **MSc Dissertation; University of St-Andrews** : Pedestrian Classification using Convolutional Neural Networks in Tensor Flow . [click-here](#) 
- **Knowledge Discovery and Data mining ; University of St-Andrews** : Consumer Credit Risk Modelling with RBS. [click-here](#) 
- **Applied Multivariate Analysis; University of St-Andrews**: Applied Unsupervised Machine Learning Techniques such as Principal Component Analysis and Clustering on World Development Indicators from World Bank. [click-here](#) 

PROGRAMMING SKILLS

Languages: R, Python, MATLAB, Microsoft SQL Server 2014, SAS, SPSS, Microsoft Office(OneNote, Word, Excel, PowerPoint), Mathematica, HTML, CSS

Technologies: Tableau, Git, TensorFlow, OpenCV, R Markdown, LaTeX, Shiny