

## WORK EXPERIENCE

### Senior Data Scientist Decision Technology

10/2014 – Present London

Consulting company specialising in understanding and predicting customer behaviours with experimental psychology, cognitive science and statistics

#### Achievements/Tasks

- Build statistical models from big data sets to interpret customer behaviours and identify enablers and blockers for brand consideration.
- Design, execute and evaluate experiments (incl. RCT) to optimise product offerings, improve customer experience and identify levers to help move key metrics.
- Navigate, process and analyse (un)structured data (e.g. customer feedback, social media posts and survey open questions) to understand customer sentiment.
- Experienced in translating data to actionable recommendations and communicating results to (non)technical stakeholders across different functions.
- Lead internal R&D to evolve the firm's recruitment process, optimise candidate screening with competency metrics and improve retention strategy.

## EDUCATION

### MSc Advanced Computing Technologies (Machine Learning) Birkbeck, University of London

09/2016 – 09/2018 Distinction

#### Courses

- |  |                                |
|--|--------------------------------|
| • Big Data Analytics using R                 | • Machine Learning             |
| • Parallel Computing and Distributed Systems | • Advanced Database Management |
| • Data Security                              | • Data Mining and Warehousing  |

### MSc Sociology University of Oxford

09/2013 – 09/2014 Distinction

#### Courses

- |                           |   |
|---------------------------|---|
| • Statistics              | • Experimental Design                     |
| • Social Network Analysis | • Quantitative Method and Survey Research |

### BA Linguistics and Sociology University of Manchester

09/2011 – 09/2013 First

## SKILLS

Machine Learning   A/B Testing   Hypothesis Testing

Multivariate Testing   Experimental Design

Survey Design   Statistical Modelling

Multilevel Modelling   Survival Analysis   Regression

Random Forests   Dimension Reduction   Clustering

Time Series Analytics & Forecasting

Natural Language Processing   R   R Shiny

Python   TensorFlow   SQL   Hive   Spark

AWS   Docker   Kubernetes

## PROJECTS

Data Science blog: databentobox.com  
(10/2016 – Present)

- databentobox.com is a blog where I showcase my personal data science projects and share thoughts on statistics and programming.
- Blog articles are frequently re-posted by R-bloggers and KDnuggets and have gained traffic in the data science community.
- Specifically, the recent project Simulating Coronavirus Outbreak with Origin-Destination Matrix and SEIR Model attracted 20k views.

MSc Machine Learning Project: Tackling Toxic Comments Using Convolution and Recurrent Neural Networks (06/2018 – 09/2018)

- Going beyond standard sentiment analysis, the goal of this project is to build an automated tool to identify online toxic comments.
- Neural network based classification models (bidirectional GRU-CNN) with pre-trained word embedding were built.
- The final model achieved state-of-the-art classification results and the MSc project was awarded distinction.

MSc Sociology Thesis: Gender Equity and Women's Fertility Intention in European Countries (06/2014 – 09/2014)

- This thesis provides an empirical test of gendered fertility theory by examining whether low gender equity at home lowers women's fertility intentions in 31 European countries.
- Using a series of multilevel logistic regressions, together with the data from the second and the fifth round of European Social Survey, the MSc thesis generated unique insights and was awarded distinction.

## LANGUAGES

English  
Native or Bilingual Proficiency

Mandarin Chinese  
Native or Bilingual Proficiency