### Yihui Fan

### Data Scientist | Business Analytics & Customer Behaviours

Postgraduate training in both machine learning and social science, together with work experience in data science and management consulting equipped me with a unique skill set for delivering data-driven business insights.

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#### **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 multivariate time series models (ARIMA and neural network based) from big data sets to predict sales and other key metrics for business scenario planning.
- Devise and maintain data visualisation services (e.g. interactive R Shiny Dashboards) to enable KPI monitoring and data-driven decision making.
- Design, execute and analyse experiments to test hypotheses, drive product development and answer key business questions.
- Navigate, process and analyse (un)structured data from various sources to understand customer behaviours and identify trends and opportunities.
- Lead and mentor junior team members and manage multiple projects for different clients simultaneously and effectively.
- Experienced in translating data to actionable insights and recommendations and communicating results to (non)technical stakeholders across different functions.

#### **EDUCATION**

### MSc Advanced Computing Technologies (Machine Learning)

Birkbeck, University of London

09/2016 - 09/2018

Distinction

#### Courses

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

#### MSc Sociology University of Oxford

09/2013 - 09/2014

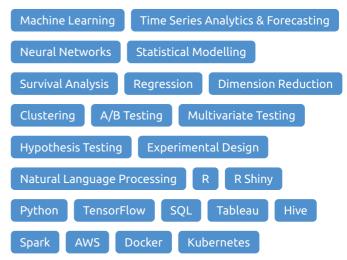
Distinction

#### Courses

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

# **BA Linguistics and Sociology** University of Manchester

#### **SKILLS**



#### **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