

# LUXI LIU

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📍 British Citizen

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## EXPERIENCE

### Data Consultant

📅 Sept 2019 – Present

📍 London, UK

Peru Consulting

- **Industry:** Commercial Banking; **Project Role:** Data Analyst;  
Built a regression model in R using an internal database. Produced outputs to verify the client's supplier pricing. Renegotiations decreased main supplier's price by 12%.
- **Industry:** Food Retail; **Project Role:** Business Intelligence Analyst;  
Built supplier management Power BI dashboards so client could ensure performance was meeting SLAs. Built and presented an automated dashboard, coding complex visualizations using DAX and M-Code that highlighted key areas of cost optimisation in their printing landscape, leading to savings of £13k per month.
- **Industry:** Public Sector Health; **Project Role:** Data Architect;  
Designed the metamodel for the NHS Logical Data Dictionary in Collibra, for the first end-to-end national data pipeline, a pilot project driving ROI and cost saving worth £400M per annum.

### Data Science Intern

📅 June 2018 – September 2018

📍 London, UK

artificial.io

- Built a gradient-boosted tree model to predict insurance risk, applying binary classification methods to housing data.
- This model had a 12% higher  $R^2$ -value than the previous model and was demoed to clients.

## EDUCATION

### Master's in Mathematics

First Class Honours

📅 September 2015 - July 2019

Imperial College London

- Specialising in Data Science and Statistics.
- Modules included: Mathematical Computation, Credit Scoring and Quantitative Analysis, Advanced Statistical Modelling, Data Science, Survival Models in Actuarial Science, Mathematical Finance, Time Series, and Game Theory.

### A2 Level

📅 September 2013 - July 2015

Westminster School

- 4 A\*s: Mathematics, Further Mathematics, Physics, Economics.

## CERTIFICATIONS

- ITIL v4

- AgilePM Practitioner

- MySQL

## PROJECTS

### Data/Software Engineering

Healthy Air Technologies

📅 August 2021 – Present

- Designing software architecture for a mobile application connected to 3000+ home air purifying units.
- Building and managing a SQL database on AWS and developing web services to create an IoT data pipeline for analysis and reporting.

### Master's Dissertation

Imperial College London

📅 September 2018 – June 2019

- Modelled the causal effect of 20mph zones in London on traffic accidents by sourcing and transforming TfL data in R, using machine learning and regression to generate the propensity scores which were used to eliminate selection bias.

### Personal Projects

[github.com/luxi-liu97/](https://github.com/luxi-liu97/)

📅 2020 – Present

- Exploratory data analysis on space missions data to generate insights and recommendations for a new (fictional) space agency. Report written in Jupyter Notebooks.
- Implemented a Scheme interpreter in Python with full Read-Eval-Print-Load functionality

## SKILLS

### Python

(libraries inc. numpy, pandas, seaborn, scipy, XGBoost, TensorFlow)

### R

(packages inc. dplyr, stats, ggplot2, MatchIt, twang, survey)

### SQL, LaTeX, MATLAB

### Excel, Power BI

### Java

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