

Kieran Fox

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DATA SCIENTIST

OBJECTIVES I am looking for an entry level data science position in a business setting. I want to find a team-based environment where I can contribute and mesh my work with others as that is how I work best. I am also looking to develop my skills with a particular focus on improving my machine learning.

SKILLS

Programming proficiencies: Python [PyTorch, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, SciPy, Statsmodels], SQL

Familiar with: C++, BASH, HTML/CSS, Matlab

Computational: Linux, Version control (with git), Jupyter notebooks

Technical: Machine learning, Linear algebra, Calculus, Statistics

General: Experiment design, Project management, Presentations, Paper writing, Teaching

PROJECTS

Conditions for biodiversity

- Cleaned extensive recorded data on 80 surveys in the form of excel files for **Natural England**. This code will be used by the organisation for all future surveys.
- Performed an exploratory analysis of the data showing changes over time. This has been used to inform Natural England workers on policy.

Quantarhei

- Contributed to a group production level python package which performs calculus and linear algebra operations to predict time-series.
- Rewrote code to increase efficiency of calculations, reducing the time taken by up to 90%. This allowed for the generation of much larger data-sets and consequently gave more reliable results.

Machine learning projects

- Wrote an explanation of the maths behind linear and logistic regression and included a tutorial on how to implement these algorithms from scratch in python.
- Performed an exploratory data analysis of how health insurance charges are calculated and trained a linear regression model which accurately predicts future charges.

WORK EXPERIENCE

Post doctoral researcher - Charles University *Jan' 19 - Sep 20*

- Designed and led a project to understand change over time in various quantum-biological processes. Publication currently being written.
- Presented my highly specialised work to a wide range of audiences at international conferences in Austria and Mexico. This involved presenting the data differently for varying levels of familiarity with the work.

Quality Analyst - Glaxo Smith Kline *Nov' 13 - Jul' 14*

EDUCATION

PhD Computational physics - Queen Mary University of London *Sep' 14 - Aug' 18*

- Modelled complex biological processes as a series of linear algebra operations leading to four **publications**.
- Led projects with teams of up to six people which involved teaching skills to junior researchers, directing work flow and reporting on progress.
- Wrote C++ code for data manipulations, speeding up necessary processes to manageable time-frames which was used by the whole lab.
- Presented findings both internally and at international conferences and won the Clyne Prize for the best final year presentation in science.

Master of Chemistry (Hons.), 2:1 - University of Sussex *Sep' 09 - Jul' 13*