Kieran Fox

Data scientist

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Objectives

I am looking for an entry level data science position in a business setting. I have enjoyed academia for the opportunities to learn and grow and work with people all over the world, but now I want to work with real world problems and have the satisfaction of seeing my work being implemented.

Skills

Programming proficiencies: Python [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: Linear algebra, Calculus and differential equations, Statistics, Machine learning

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 a descriptive statistical 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.
- Introduced memory saving devices by removing memory leaks and taking small costs in time to write to disk where necessary.

Work Experience

Post doctoral researcher - *Charles University* *Jan' 19 - Current*

- 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 Bio-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*