

Ricardo Energy &
Environment

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Hao Wu

Senior Data Scientist

Education

Ph.D., University of Edinburgh. **2017**

- Understanding the spatial-temporal variability of urban air pollution
- Dispersion and statistical modelling of urban air pollution
- Conducting air quality measurements using stationary and portable air quality monitors.

BSc (Hons) Environmental and Sustainable Chemistry **2013**
(1st Class), University of Edinburgh.

Bsc, South China University of Technology. **2013**

Employment

Senior Data Scientist, Ricardo Energy & Environment. **Jan 2020 - Present**

- Dynamic reporting, data visualisation and building tools for analysing air quality data
- Building R Shiny applications integrated with SQL database for data checking
- Building bespoke R packages to simplify the process of data analysis
- Using regression and tree based statistical model to predict air quality trends

Data Scientist, Ricardo Energy & Environment. **April 2020 - January 2020**

Technical Skills

*Programming
Languages*

Proficient: R.

Intermediate: MySQL.

Basic: CSS, HTML, Bash, Python.

Software

Advanced: RStudio, ADMS-Urban, MS Word.

Intermediate: ArcGIS, FME, MS Excel, Sketchup, Fusion 360.

*Conferences and
Training Courses*

*Honours and
Awards*

Publications