

Ricardo Energy &  
Environment

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# Hao Wu

*Senior Data Scientist*

## Education

**Ph.D.**, University of Edinburgh, UK. **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 (1st Class)**, University of Edinburgh, UK. **2013**

- Environmental and Sustainable Chemistry

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

- Applied Chemistry

## 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 2017 - 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