

Mark Ruddy

31c Bardolph Road, London, UK, N7 0NJ

tel: +44 (0)7974 139 772

email: drmarkruddy@gmail.com | twitter: @markruddy | GitHub: markruddy | LinkedIn: drmarkruddy | web: stage5e.com

Personal Statement

I'm a Data-driven scientist using R, databases, GIS and other tools to tidy, explore, and visualise data; deliver reproducible work; and creatively communicate ideas and insights.

My background in Earth and environmental sciences (PhD, MSc, PgDip) has been the springboard to over 10 years' data-oriented experience in public and private sector projects.

Career highlights

- Task Technical Lead in the world's first national-level digital mapping project.
- Multivariate analysis of fossils applied to geological dating.
- Archaeological Science Advisor, Eastern England.
- Writing and Instructional Design of energy sector e-learning products.

Key skills

- Statistical approaches
- Spatial data handling
- Machine learning
- Data visualisation and instructional design
- Database design and functional requirements
- Project management
- Independent research

Tools

- R: base R, *tidyverse*, caret, knitr, R Markdown, Bookdown,...etc
- Databases: MySQL, SQL, Postgres, PostGIS
- Geographical Information Systems: QGIS, ESRI, GMT
- Illustration: Inkscape, Gimp
- Writing: markdown, LaTeX
- Other experience: python, php, html, jekyll

Academic History

- **PgDip** (Distinction): Geographical Information Science
 - University College London, London, UK
 - October 2014—May 2015
- **PhD**: Quantitative palaeontology and stratigraphy
 - *The western Palaearctic evolution of the water vole* Arvicola.
 - Royal Holloway, University of London, Egham, UK
 - October 2006—September 2010
- **MSc** (Distinction): Quaternary Science
 - Royal Holloway, University of London, Egham, UK
 - October 2004—September 2005
- **BSc** (2.1): Biology and Geology
 - University of Manchester, Oxford Road, Manchester, UK
 - September 1994—June 1997

Employment History

- Data and Environmental Consultant:
 - Data science; Geotechnical support; Science journalism; Instructional Design
 - Clients include Museum of London Archaeology, L-P:Archaeology, energy-future.com, University of Westminster
 - June 2011—July 2015 and May 2016—present
- Science Advisor (East of England)
 - Archaeological Science support to the heritage sector
 - Historic England, 24 Brooklands Avenue, Cambridge, CB2 8BU, UK
 - July 2015—May 2016 (Maternity cover)
- Database administrator
 - Development and population of the Ancient Human Occupation of Britain project database
 - Natural History Museum, London, UK
 - November 2010—April 2011
- Bibliographic database management and GIS
 - Building global models of sea-level change
 - NefTex Exploration Insights, Abingdon, Oxon., UK
 - February 2006—September 2006
- GIS Technician and Technical Lead
 - Digital mapping of England
 - Black & Veatch Ltd, Redhill, Surrey, UK
 - June 2001—September 2004

References

On request