

# Mark Ruddy

## Curriculum Vitae

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

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## Key skills

*Project management*  
*Building relationships*  
*Independent research*  
*Curiosity*

## Expertise

*Data science*  
*Geospatial science*  
*Archaeological sciences*  
*Natural Earth sciences*  
*Relational databases*

## Tools

*R, python*  
*php, html*  
*SQL, Postgres, PostGIS*  
*QGIS, ArcGIS, GMT*  
*Markdown, LaTeX*  
*OSX, UNIX, Windows*

## References

On request

## Personal Statement

I'm a Data and Natural Earth Scientist who has developed a career in the commercial and public sectors as a consultant, coordinator, and writer.

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## Accomplishments

- Lead technical aspects of the world's first national-level digital mapping project
  - Developed a framework for archaeological research of the East Anglian coast
  - Produced specialist teaching materials on energy and environment
  - Built bespoke 3D geoarchaeological database model
  - Revised understanding of water vole evolution using multivariate shape analysis
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## Academic

- **PgDip** (Distinction): Geographical Information Science
    - University College London, London, UK
    - October 2014—May 2015
  - **PhD**: Quantitative palaeontology and stratigraphy
    - [The western Palaeartic 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
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# Employment

- Science Consultant: [stage5e.com](http://stage5e.com)
    - Data science; Science journalism; Instructional design; Geoarchaeological support;
    - Clients include [Museum of London Archaeology](#), [L-P:Archaeology](#), [energy-future.com](http://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
    - [Neflex 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
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## Selected Publications

Brace, S., **Ruddy, M.**, Miller, R., Schreve, D., Stewart, J., Barnes, I. (2016). [The colonisation history of British water vole \(\*Arvicola amphibius\*\[L., 1758\]\): origins and development of the Celtic Fringe](#). *Proceedings of the Royal Society of London B: Biological Sciences* 283 (1829). doi:10.1098/rspb.2016.0130.

**Ruddy, M.** (2013). The hills (and seas) are alive with the sounds of seismic, in: *How the Energy Industry Works: The Ultimate Guide to Energy*. Silverstone Communications Ltd (Energy Future), pp. 26–29.

**Ruddy, M.** (2012) Methane Hydrates: Ice on Fire. In: *Everything You Wanted to Know About Gas ... but Were Afraid to Ask*. Produced for the 25th World Gas Conference – Kuala Lumpur. Silverstone Communications Ltd (Energy Future). pp. 86–89.

Polly, P. D., Killick, L., and **Ruddy, M.** (2011). [Using left-right asymmetry to estimate non-genetic variation in vole teeth \(\*Arvicolinae\*, \*Muroidae\*, \*Rodentia\*\)](#). *Palaeontologia Electronica*, 14(3; 41A).