

Mark Ruddy

Curriculum Vitae

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

t: +44 (0)7974 139 772 | e: drmarkruddy@gmail.com | twitter: [@markruddy](https://twitter.com/markruddy) | web: stage5e.com

Linkedin: linkedin.com/in/mark-ruddy-13a619b1 | Github: github.com/markruddy

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.

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
 - Data science; Science journalism; Instructional design; Geoarchaeological support;
 - 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
 - [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).