

Mark Ruddy

Curriculum Vitae

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

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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).