

Richard James Telford

Førsteamanuensis

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Web: www.uib.no/rg/EECRG Blog: quantpalaeo.wordpress.com

Employment

University of Bergen

Associate Professor

January 2007 – Present.

Bjerknes Centre for Climate Research

Forsker II

January 2003 – December 2006.

Newcastle University

Research Associate

September 2001 – December 2002.

Teaching Fellow

September 2000 – September 2001.

Lancaster University

Research Associate

June 2000 – August 2000.

Teaching Fellow

October 1999 – June 2000.

Research Associate

October 1998 – October 1999.

Education

Newcastle University

Certificate in Learning and Teaching in Higher Education

2001

University of Wales, Aberystwyth

PhD in Earth Sciences

1998

Title "Diatom stratigraphies of Lakes Awassa and Tilo, Ethiopia: Holocene records of ground-water variability and climate change."

Supervised by Dr H.F. Lamb.

Clare College, Cambridge University

BA (Hons) 2.1 Natural sciences (Plant sciences)

1994

Publications

Number ISI citations: 2783

H-index: 29

Number of papers: 75

Number of book chapters: 8

Selected Journal Articles

Andrén, E, **R. J. Telford** and P. Jonsson (2017). Reconstructing the history of eutrophication and quantifying total nitrogen reference conditions in Bothnian Sea coastal waters. *Estuarine, Coastal and Shelf Science* 198, 320–328. DOI: [http://dx.doi.org/10.1016/j.ecss.2016.07.015](https://doi.org/10.1016/j.ecss.2016.07.015).

Trachsel, M. and **R. J. Telford** (2017). All age–depth models are wrong, but are getting better. *The Holocene* 27, 860–869. DOI: [http://dx.doi.org/10.1177/0959683616675939](https://doi.org/10.1177/0959683616675939).

- Eycott, A. E, J. Esaete, J. Reiniö, **R. J. Telford** and V. Vandvik (2016). Plant functional group responses in an African tropical forest recovering from disturbance. *Plant Ecology & Diversity* 9, 69–80. DOI: <http://dx.doi.org/10.1080/17550874.2016.1143535>.
- Guittar, J, D. Goldberg, K. Klanderud, **R. J. Telford** and V. Vandvik (2016). Can trait patterns along gradients predict plant community responses to climate change? *Ecology* 97, 2791–2801. DOI: <http://dx.doi.org/10.1002/ecy.1500>.
- Rehfeld, K, M. Trachsel, **R. J. Telford** and T. Laepple (2016). Assessing performance and seasonal bias of pollen-based climate reconstructions in a perfect model world. *Climate of the Past* 12, 2255–2270. DOI: <http://dx.doi.org/10.5194/cp-12-2255-2016>.
- Telford, R. J.**, J. D. Chipperfield, H. H. Birks and H. J. B. Birks (2016). How foreign is the past? *Nature* 538, E1–E2. DOI: <http://dx.doi.org/10.1038/nature16447>.
- Akite, P, **R. J. Telford**, P. Waring, A. M. Akol and V. Vandvik (2015). Temporal patterns in Saturniidae (silk moth) and Sphingidae (hawk moth) assemblages in protected forests of central Uganda. *Ecology and Evolution* 5, 1746–1757. DOI: <http://dx.doi.org/10.1002/ece3.1477>.
- Chen, F, Q. Xu, J. Chen, H. J. B. Birks, J. Liu, S. Zhang, L. Jin, C. An, **R. J. Telford**, X. Cao, Z. Wang, X. Zhang, K. Selvaraj, H. Lu, Y. Li, Z. Zheng, H. Wang, A. Zhou, G. Dong, J. Zhang, et al. (2015). East Asian summer monsoon precipitation variability since the last deglaciation. *Scientific Reports* 5, 11186–. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4471663/>.
- Cao, X, U. Herzschuh, **R. J. Telford** and J. Ni (2014). A modern pollen-climate dataset from China and Mongolia: Assessing its potential for climate reconstruction. *Review of Palaeobotany and Palynology* 211, 87–96. DOI: <http://dx.doi.org/10.1016/j.revpalbo.2014.08.007>.
- Bulafu, C, D. Baranga, P. Mucunguzi, **R. J. Telford** and V. Vandvik (2013). Massive structural and compositional changes over two decades in forest fragments near Kampala, Uganda. *Ecology and Evolution* 3, 3804–3823. DOI: <http://dx.doi.org/10.1002/ece3.747>.
- Carstensen, J, **R. J. Telford** and H. J. B. Birks (2013). Diatom flickering prior to regime shift. *Nature* 498, E11–E12. DOI: <http://dx.doi.org/10.1038/nature12272>.
- Telford, R. J.**, C. Li and M. Kucera (2013). Mismatch between the depth habitat of planktonic foraminifera and the calibration depth of SST transfer functions may bias reconstructions. *Climate of the Past* 9, 859–870. DOI: <http://dx.doi.org/10.5194/cp-9-859-2013>.
- Bouchet, V. M. P, E. Alve, B. Rygg and **R. J. Telford** (2012). Benthic foraminifera provide a promising tool for ecological quality assessment of marine waters. *Ecological Indicators* 23, 66–75. DOI: <http://dx.doi.org/10.1016/j.ecolind.2012.03.011>.
- Telford, R. J.** and H. J. B. Birks (2011b). A novel method for assessing the statistical significance of quantitative reconstructions inferred from biotic assemblages. *Quaternary Science Reviews* 30, 1272–1278. DOI: <http://dx.doi.org/10.1016/j.quascirev.2011.03.002>.
- Telford, R. J.** and H. J. B. Birks (2009). Evaluation of transfer functions in spatially structured environments. *Quaternary Science Reviews* 28, 1309–1316. DOI: <http://dx.doi.org/10.1016/j.quascirev.2008.12.020>.
- Clarke, A. L, K. Weckström, D. J. Conley, N. J. Anderson, F. Adser, E. Andrén, V. N. de Jonge, M. Ellegaard, S. Juggins, P. Kauppila, A. Korhola, N. Reuss, **R. J. Telford** and S. Vaalgamaa (2006). Long-term trends in eutrophication and nutrients in the coastal zone. *Limnology and Oceanography* 51, 385–397. DOI: http://dx.doi.org/10.4319/lo.2006.51.1/_part/_2.0385.
- Telford, R. J.**, V. Vandvik and H. J. B. Birks (2006a). Dispersal limitations matter for microbial morphospecies. *Science* 312, 1015–1015. DOI: <http://dx.doi.org/10.1126/science.1125669>.

Telford, R. J., P. Barker, S. Metcalfe and A. Newton (2004). Lacustrine responses to tephra deposition: examples from Mexico. *Quaternary Science Reviews* 23, 2337–2353. DOI: <http://dx.doi.org/10.1016/j.quascirev.2004.03.014>.

Outreach

Blog on palaeoecological methods at <https://quantpalaeo.wordpress.com/> has had about 130,000 page views.

Regular contributor to stackoverflow.com on R questions.

R package palaeoSig for determining significance of palaeoenvironmental reconstructions published on [CRAN](https://cran.r-project.org/web/packages/palaeoSig/index.html).

Supervision

PhD students (* main supervisor)

2008–2016 Perpetra Akite MATRIX: Butterfly biodiversity in Ugandan tropical forest fragments

2008–2014 Collins Bulafu MATRIX: Herb biodiversity in Ugandan tropical forest fragments

Fulbright Students

2008–2009 Brooke Wilkerson Assessing policy impacts on forests using long term monitoring data

2005–2006 Michelle Crenshaw Diatom palaeolimnology

MSc students (* main supervisor)

2013–2014 Moss Tesfayesus Mangrove forest extent and status along the Eritrean coast

2011–2012 Sofie Söderström* Interspecific whale associations in the Norwegian Seas

2009–2011 Gunnar Kvifte* Psychodidae of Budongo Forest

2008–2010 Moreen Uwimbabazi Bird diversity in forest fragments around Budongo Forest

2008–2010 Kristoffer Hauge* MATRIX: Bat biodiversity in tropical forest fragments

2008–2010 Therese Kronstad* MATRIX: Butterfly biodiversity in Ugandan tropical forest fragments

2007–2008 Wang Manfei Population dynamics of trees colonizing coastal heathlands on Lurøy

Teaching

I hold a Certificate in Learning and Teaching in Higher Education from Newcastle University.

University of Bergen

Course leader

Bio302 – Biological data analysis II

Bio303 – Ordination and Gradient Analysis

Rklubben - weekly peer-learning drop-in session for R code problems Contributions to

Bio201 – Ecology

Bio250 – Palaeoecology

Bio301 – Current themes in biodiversity evolution and ecology

Bio351 – Quantitative Palaeoecology

University of Newcastle

Course leader

Recent Environmental Change (3rd year course)

Contributions to

Geomorphological Techniques

University of Lancaster

Course leader

Holocene Environmental Change (3rd year course)

Physical Geography of the British Isles (2nd year course)

Other Professional Duties

Reviewing

I have reviewed manuscripts for: Applied Geochemistry, Aquatic Conservation, Biology Letters, Biotropica, Climate Dynamics, Climate of the Past, Diversity and Distributions, Ecological Indicators, Ecology Letters, Environmental Modelling & Software, European Journal of Phycology, Frontiers in Ecology and Evolution, Fundamental and Applied Limnology, Geology, Geophysical Research Letters, Hydrobiologia, Inland Waters, Journal of Applied Ecology, Journal of Biogeography, Journal of Paleolimnology, Journal of Plankton Research, Journal of Quaternary Science, Journal of Statistical Software, Limnology and Oceanography: Methods, Marine Micropaleontology, Nature, Nature Communications, Oikos, Palaeogeography Palaeoclimatology Palaeoecology, Quaternary Research, Quaternary Science Reviews, Radiocarbon, Scientific Reports, The Holocene, Vegetation History and Archaeobotany

Professional Memberships

2005-2006 European Geophysical Union.

1996-1998 International Society for Diatom Research

Scientific leadership

2012-2015 PI palaeoDrivers

2008-2011 Co-PI THE MATRIX

2008-2011 Workpackage leader PES

2007-2008 Project leader "Endemic or Everywhere"

2007-2011 Workpackage leader ARTREC

2003-2006 Workpackage leader Nordic Council Project DEFINE

2006 Wrote Technical Implementation Plan for EU Framework 5 project PACLIVA

Administration

Deputy leader EECRG 2011-

Member of organising committee of Nile Basin Research Programme Biodiversity Working Group

Leader of appointment committee for MATRIX PhD positions in Bergen 2008

Member of appointment committee for MATRIX PhD positions in Makerere 2008

Grant reviewer for the Academy of Sciences of the Czech Republic; Swiss National Science Foundation; Royal Society of New Zealand, Polish National Science Centre, National Science Foundation.