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Tropical Palaeoecology Research Group: <https://blogs.reading.ac.uk/tprg/>

EDUCATION

1993 Ph.D. Palaeoecology, University of New Brunswick, Canada
 1988 MSc. Palynology, University of Sheffield, UK
 1986 BSc. Hons. Botany, University of Reading, UK

EMPLOYMENT

2014- Professor of Tropical Palaeoecology, University of Reading, UK.
 2013-2014 Reader in Ecosystems Ecology, University of Reading, UK.
 2007-2013 Senior Lecturer in Environmental Change, University of Edinburgh, UK
 2004-2007 Lecturer in Environmental Change, University of Edinburgh, UK
 1994-2004 Lecturer in Physical Geography, University of Leicester, UK
 1993-1994 NERC-funded PDRA, Royal Holloway University of London, UK

ESTEEM INDICATORS & PROFESSIONAL SERVICE

- Supervision of 16 PhD students and 5 PDRAs
- Member of NERC radiocarbon panel. 2014-
- Special Visiting Scientist, USP, Brazil, CNPq 'Science Without Borders' Progr. 2014-17.
- Associate Editor for *The Holocene*. 2006-
- Guest editor of special issue of *Journal of Quaternary Science*. 2004
- Convenor of 6 conference symposia
- Invited/plenary speaker at 8 international conferences
- External examiner for several UK & European PhD theses

RESEARCH GRANTS (selected examples)

2014-17 AHRC-FAPESP. £1.2 million. Je Landscapes of southern Brazil: Ecology, History and Power in a transitional landscape during the late Holocene. (Mayle: co-I).
 2014-17 CNPq £92,000. Origin of Biodiversity in the Central Atlantic Forest of Brazil. Special Visiting Researcher, Brazil Science Without Borders Progr. (Host: Pessenda, CENA/USP)
 2013-18 NSF. US\$5 million. Dimensions US-BIOTA-Sao Paulo: Assembly and evolution of the Amazonian biota and its environment: an integrated approach. (Mayle: project partner).
 2011-12 National Geographic Society. US\$20,000. Environmental impact of the Pre-Columbian geoglyph builders in western Amazonia. (Mayle: PI).
 2010-13 Leverhulme Trust. £250,000. Pre-Columbian human land-use and impacts in the Bolivian Amazon. (Mayle: PI).
 2006-10 NERC (QUEST). £640,000. Climate and biogeochemical cycles during the last deglaciation. (Mayle: co-I).
 2003-4 Leverhulme Trust fellowship. £19,500. Quaternary evolution of the Chiquitano dry forest, eastern Bolivia.

REFEREED PAPERS (selected examples)

2018 Smith, R., and Mayle, F.E. A 6,000 year multiproxy palaeovegetation data synthesis for lowland tropical South America. *Quaternary Research*, **89**, 134-155.
 2017 Watling, J., Iriarte, J., Mayle, F.E., Schaan, D., Pessenda, L.C.R., Loader, N.J., Street-Perrott, F.A., Damasceno, A., and Ranzi, A. Impact of pre-Columbian 'geoglyph' builders

- on Amazonian forests. *Proceedings of the National Academy of Science of the United States of America*, **114(8)**, 1868-1873.
- 2016 Power, M.J., Whitney, B.S., Mayle, F.E., Neves, D., de Boer, E., and MacLean, K. Fire, climate and vegetation linkages in the Bolivian Chiquitano Seasonally Dry Tropical Forest. *Philosophical Transactions of the Royal Society B*, **371**, 20150165.
- 2016 Carson, J.F., Mayle, F.E., Whitney, B.S., Iriarte, J. and Soto, D.S. Palaeoecological evidence for pre-Columbian land use on a “chocolate island” in NE Bolivia. *Journal of Quaternary Science*, **31(4)**, 337-347.
- 2015 Maezumi, S.Y., Power, M.J., Mayle, F.E., McLauchlan, K, and Iriarte, J. Effects of past climate variability on fire and vegetation in the cerrãdo savanna of the Huanchaca Mesetta, NE Bolivia. *Climate of the Past*, **11**, 835-853.
- 2014 Mayle, F.E. and Iriarte, J. Integrated Palaeoecology and Archaeology – A powerful approach for understanding Pre-Columbian Amazonia. *Journal of Archaeological Science*, **51**, 54-64.
- 2014 Carson, J.F., Whitney, B.S., Mayle, F.E., Iriarte, J., Prumers, H., Soto, J.D., and Watling, J. Environmental impact of geometric earthwork construction in pre-Columbian Amazonia. *Proceedings of the National Academy of Science of the United States of America*, **111(29)**, 10497-10502.
- 2014 Whitney, B.S., Dickau, R., Mayle, F.E., Walker, J.H., Soto, J.D., and Iriarte, J. Pre-Columbian raised-field agriculture and land use in the Bolivian Amazon. *The Holocene*, **24**, 231-241.
- 2013 Whitney, B.S., Dickau, R., Mayle, F.E., Soto, J.D., and Iriarte, J. Pre-Columbian landscape impact and agriculture in the Monumental Mound Region of the *Llanos de Moxos*, lowland Bolivia. *Quaternary Research*, **80**, 207-217.
- 2013 Power, M.J., Mayle, F.E., Bartlein, P.J., Marlon, J.R., Anderson, R.S., Behling, H., Brown, K.J., Carcaillet, C., Colombaroli, D., Gavin, D.G., Hallett, D.J., Horn, S.P., Kennedy, L.M., Lane, C., Long, C., Moreno, P.I., Paitre, C., Robinson, G., Taylor, Z., and Walsh, M. Climatic control of the biomass-burning decline in the Americas after AD 1500. *The Holocene*, **23**, 3-13.
- 2012 Whitney, B.S., Rushton, E.A.C., Carson, J.F., Iriarte, J., and Mayle, F.E. An improved methodology for the recovery of *Zea mays* and other large crop pollen, with implications for environmental archaeology in the Neotropics. *The Holocene*, **22**, 1087-1096.
- 2012 Iriarte, J., Power, M.J., Rostain, S., Mayle, F.E., Jones, H., Watling, J., Whitney, B.S., and McKey, D. Fire-free land use in pre-1492 Amazonian savannas. *Proceedings of the National Academy of Science of the United States of America*, **109(17)**, 6473-6478.
- 2008 Punyasena, S.W., Mayle, F.E., and McElwain, J.C. Quantitative estimates of glacial-Holocene precipitation and temperature change in lowland Amazonian Bolivia. *Geology*, **36(8)**, 667-670.
- 2008 Mayle, F.E., and Power, M.J. Impact of a drier Early-Mid Holocene climate upon Amazonian forests. *Philosophical Transactions of the Royal Society B*, **363**, 1829-1838.
- 2007 Mayle, F.E., Langstroth, R.P., Fisher, R., and Meir, P. Long-term forest-savannah dynamics in the Bolivian Amazon: implications for conservation. *Philosophical Transactions of the Royal Society B*, **362**, 291-307.
- 2000 Mayle, F.E., Burbridge, R., and Killeen, T.J. Millennial-Scale Dynamics of Southern Amazonian Rain Forests. *Science*, **290**, 2291-2294.