**Katie Manning**

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**RESEARCH INTERESTS**

Human ecology

Human demography in relation to climate change (past and present), life history theory, Malthusian theory

Evolution of livestock animals, the ecology of early herding regions, statistical analysis of palaeoecological data Ecological and economic sustainability

**EDUCATION**

**DPhil,** University of Oxford (examiners: Prof. Graeme Barker and Prof. Chris Gosden) 2008

AHRC funded. Thesis: *Mobility, Climate Change and Cultural Development. A revised view from the Lower Tilemsi Valley, northeastern Mali.*

**MA Archaeology**, University College London (Distinction) 2003.

**BSc Archaeology**, University College London (First) 2002.

**CURRENT AND RECENT EMPLOYMENT**

**Research associate,** UCLOctober 2010 - present

(Cultural Evolution of Neolithic Europe (ERC grant #249390 , Prof. Stephen Shennan)

* Palaeoecological data analysis and the development of applied statistics in faunal analysis
* Chronological modelling of cultural phenomena
* Modelling fluctuations in past population size
* Writing peer-reviewed papers and presentation at international conferences

**Research Associate**, UCL November 2009 – April 2010 (Job share)

(Noviodunum Archaeological Project – Dr Kris Lockyear, Dr Timothy Sly and Dr Adrian Popescu)

* Computerisation and digitization of site records

**Research associate,** UCLMay 2010 - July 2010 & June 2009 - November 2009

(Origins and Spread of Livestock in the Near East and Europe – Prof. Stephen Shennan and Prof. Keith Dobney)

* Collection of archaeozoological data
* Data input and analysis (Excel /Access and Canoco)
* Assistance with the project conference, involving 24 participants over 5 days
* Publications

**Network facilitator,** UEASeptember 2007 - February 2010

(Leverhulme Research Network on African impressed ceramics – Dr Anne Haour and Dr Katie Manning)<http://www.sru.uea.ac.uk/pottery-research-network.php>

* Organisation of network meetings (academic content, flights, accommodation, venue hire etc.)
* Establishment and maintenance of contacts with specialists and museums.
* Co-editor of one book and one journal special edition and contributor to both publications

**GRANTS**

Leverhulme Early Career Fellowship – 2010 (declined)

Small Research grant, Embassy of Thailand - 2012

Leverhulme International Research Network – 2007

AHRC - Full Doctoral Award and 12 month study visit grant - 2005

Oxford Radiocarbon Dating Service – 2005, 2006 and 2007

Emislie Horniman Scholarship Fund, Royal Anthropological Institute- 2006

British Institute in Eastern Africa – 2005 and 2006

Barbinder Watson Research Grant (St Hugh’s College, University of Oxford) - 2006

Meyerstein Award (Institute of Archaeology, University of Oxford) - 2005

**RECENT CONFERENCE PRESENTATIONS**

2014 **ICAZ, San Rafael, Argentina**

 Identifying patterns of resilience and change in Neolithic animal exploitation: Can we reconcile ‘big data’ with chronological resolution?

 Osteometric analysis reveals unexpected size reduction in early European domestic cattle. The effects of population pressure on livestock productivity

2014 **Society for American Archaeology, Austin, USA**

 Cycles of change in Neolithic animal exploitation strategies

2014 **Green Arabia, Palaeodeserts Project, Oxford**

 The human response to African climate change: Palaeodemography and future forecasting.

2014 **6th ICAZ Archaeozoology, Genetics and Morphometrics, Lisbon**

 Identifying changes in European Neolithic Cattle Dimensions

2013 **African Archaeology Research Day, Norwich**

 The demographic response to Holocene climate change in the Sahara

2012 **European Association of Archaeologists, Helsinki**

 Cultural and environmental influences on Early Neolithic animal exploitation in Europe

2012 **Society of Africanist Archaeologists, Toronto**

 Population history of the Saharan Holocene – using radiocarbon dates to infer human demography

**PUBLICATIONS**

* In prep. **Manning, K.**, Colledge, S., Crema, E, Timpson, A and Shennan, S. Long-term trends and the sustainability of early European agriculture.
* In prep. Weisskopf, A. and **Manning, K.** The importance of ‘small foods’ in defining socio-ecological identity in south-western Thailand.
* Submitted. **Manning, K.**, Crema, E, Timpson, A and Shennan. Osteometric analysis confirms substantial size reduction in early European domestic cattle. PlosOne
* Bentley, A., O’Brien, M.J., **Manning, K.** and Shennan, S.In press.On the relevance of the European Neolithic. *Antiquity*
* **Manning, K.** Timpson, A., Colledge, S., Crema, E., Edinborough, K., Kerig, T. and Shennan, S. 2014. The chronology of culture: a comparative assessment of European Neolithic dating approaches. *Antiquity* 88, 342: 1065-1080.
* **Manning, K** and Timpson, A. 2014. The demographic response to Holocene climate change in the Sahara. *Quaternary Science Reviews* 101: 28-35.
* Timpson, A. Colledge, S., Crema, E., Edinborough, K., Kerig, T., **Manning, K.**, Thomas, M. G. and Shennan, S. 2014. Reconstructing regional demographies of the European Neolithic using ‘dates as data’: a new case study using an improved method. *Journal of Archaeological Science* 52: 549-557.
* Shennan, S., Downey, S.S., Timpson, A., Edinborough, K., Colledge, S., Kerig, T., **Manning, K.**, Thomas, M.G. 2013. Regional population collapse followed initial agriculture booms in mid-Holocene Europe. *Nature Communications* 4: 2486
* **Manning, K.** and Fuller, D.Q. 2014. Early millet farmers in the Lower Tilemsi Valley, Northeastern Mali. In Stevens, C.J., Nixon, S., Murray, M.-A. and Fuller, D. Q. (Eds.) *Archaeology of African Plant Use*. Walnut Creek: LeftCoast Press.
* Colledge, S., Conolly, J., Dobney, K., **Manning, K.** and Shennan, S. (Eds.) 2013. *The Origins and Spread of Stock-Keeping in Southwest Asia and Europe.* Walnut Creek: LeftCoast Press.
* **Manning, K**., Downey, S., Colledge, S., Conolly, J., Stopp, B., Dobney, K. and Shennan, S. 2013. The Origins and Spread of Stock-Keeping: The role of cultural and environmental influences on early Neolithic animal exploitation in Europe. *Antiquity* 87, 338: 1046-1059
* **Manning, K.**, Stopp, B., Colledge, S., Downey, S., Conolly, J., Dobney, K. and Shennan, S. 2013. Animal exploitation in the Early Neolithic of the Balkans and Central Europe. InColledge, S., Conolly, J., Dobney, K., **Manning, K.** and Shennan, S. (Eds.) 2013. *The Origins and Spread of Stock-Keeping in Southwest Asia and Europe.* Walnut Creek: LeftCoast Press. pp. 221-236.
* Conolly, J., **Manning**, K., Colledge, S., Dobney, K. and Shennan, S. 2012. Species distribution modelling of ancient cattle from early Neolithic sites in SW Asia and Europe. *The Holocene* 22, 9: 997-1010.
* **Manning**, K. 2011. The first herders of the West African Sahel: inter-site comparative analysis of zooarchaeological data from the Lower Tilemsi Valley, Mali. In H. Jousse and J. Lesur (eds.) *People and Animals in Holocene Africa. Recent advances in archaeozoology*. Kiel: Afrika Magna Verlag. pp. 75-85
* **Manning**, K. 2011. Potter Communities and Technological Tradition in the Lower Tilemsi Valley, Mali. *Azania: Archaeological Research in Africa* 46: 1, 70-87
* Fuller, D., Van Etten, J., **Manning**, K., Castillo, C., Kingwell-Banham, E., Weisskopf, A., Qin, L. 2011. The contribution of rice agriculture and livestock pastoralism to prehistoric methane levels: an archaeological assessment. *The Holocene* 21(5): 743-759*.*
* Conolly, J., Colledge, S., Dobney, K., Vigne, J.-D., Peters, J., Stopp, B., **Manning**, K. and Shennan, S. 2011. Meta-analysis of zooarchaeological data from SW Asia and SE Europe provides insight into the origins and spread of animal husbandry. *Journal of Archaeological Science* 38(3): 538-545.
* **Manning**, K., Pelling, R., Higham, T., Schwenninger, J-L., and Fuller, D. 2011. 4500-year old Domesticated Pearl Millet (Pennisetum glaucum) from the Tilemsi Valley, Mali: new insights into an alternative cereal domestication pathway in Africa. *Journal of Archaeological Science* 38(2): 312-322.
* Haour, A. and **Manning**, K. (Eds.) 2011. *Identity, Fashion and Exchange. Pottery production in West Africa.* Azania: Archaeological Research in Africa Special Issue
* **Manning, K.** 2010. A developmental history of West African agriculture. In P. Allsworth Jones (ed.) *West African Archaeology: New Developments, New Perspectives*. BAR International Series 2164. Archaeopress: Oxford. pp. 43-52.
* **Manning, K.**, Arazi, N. 2010. Twisted cord roulette/Roulette de cordelette torsadée. In Haour, A., Manning, K., Arazi, N., Gosselain, O., Gueye, S., Keita, D., Livingstone-Smith, A., MacDonald, K., Mayor, A., Mcintosh, S.K. and Vernet, R. (Eds.). *African pottery roulettes past and present* *(Techniques, Identification and Distribution).* Oxford: Oxbow Books Ltd. pp. 134-143.
* MacDonald, K. and **Manning, K.** 2012. Cord-wrapped roulettes/Roulette de cordelette enroulée. In Haour, A., Arazi, N., and Manning, K., Gosselain, O., Gueye, S., Livingstone-Smith, A., MacDonald, K., Vernet, R., Mayor, A., Mcintosh, S. K., Keita, D. (Eds.). *African pottery roulettes past and present* *(Techniques, Identification and Distribution).* Oxford: Oxbow Books Ltd. pp. 144-151
* Haour, A., Arazi, N., and **Manning, K.**, Gosselain, O., Gueye, S., Livingstone-Smith, A., MacDonald, K., Vernet, R., Mayor, A., Mcintosh, S. K., Keita, D. (Eds.). *African pottery roulettes past and present* *(Techniques, Identification and Distribution).* Oxford: Oxbow Books Ltd.
* **Manning**, K. 2008. Mobility amongst LSA Sahelian pastoral groups. A view from the Lower Tilemsi Valley, Eastern Mali. *Archaeological Review from Cambridge* 23 (2):125-145
* Finucane, B., **Manning**, K. and Touré, M. (2008) Late Stone Age subsistence in the Tilemsi Valley, Mali. Stable isotope analysis of human and animal remains from the site of Karkarichinkat Nord (KN05) and Karkarichinkat Sud (KS05). *Journal of Anthropological Archaeology* 27:82-92
* Finucane, B., **Manning**, K. and Touré, M. 2008. Prehistoric Dental Modification in West Africa: Early Evidence from Karkarichinkat Nord, Mali. *International Journal of Osteoarchaeology* 18 (6): 632-640.
* **Manning, K.** and MacDonald, K. (2005) Analyse des restes d’animaux collectés à Dia. In R. Bedaux, J. Polet, K. Sanogo and A. Schmidt (eds.) *Recherches archéologiques à Dia dans le Delta Intérieur du Niger (Mali): Bilan des Saisons de Fouilles 1998 – 2003.* CNWS publications: Leiden. pp.363 – 396