

RICHARD G. COOKE

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A. PROFESSIONAL PREPARATION:

Bristol University	Bristol, England	Arts	BA, 1968
Institute of Archaeology	London, England	Archaeology	PhD, 1972

B. APPOINTMENTS:

1983- present Senior Staff Scientist, Smithsonian Tropical Research Institute, Panama
1981-1983 Co-director, with A.J. Ranere, “Proyecto Santa María” (NSF Grant BNS-811-2475)
1979-1981 Consulting archaeologist for Fiduciaria Administrativa S.A., Panama (Panama City Restoration Programme, International Development Bank)
1979-1981 Professor, Faculty of Humanities, University of Panama
1977-1980 Professor, Faculty of Humanities, Universidad Santa María la Antigua, Panama
1973-1979 Adjunct Professor (Anthropology), Florida State University, Canal Zone Branch
1974-1975 Post-doctoral Fellow, Smithsonian Tropical Research Institute, Panama
1972-1975 Field assistant to Junius B. Bird (American Museum of Natural History: Paleo-Indian research in Panama)
1972-1975 Archaeologist, Patrimonio Histórico, Panamá

C. PUBLICATIONS:

Recent publications (last five years)

Buckley, M., Cooke, R.G., Martínez-Polanco, M.F., Bustamante, F., Jiménez-Acosta, M., Lara-Kraudy, A., Martín, J.G. (*in press*). Archaeological collagen fingerprinting in the Neotropics; Protein survival in 6000 year old dwarf deer remains from Pedro González, Pearl Islands, Panama. In, Mondini, M., Muñoz, A.S., and Fernández, P.M., eds., *Zooarchaeology in the Neotropics: Environmental diversity and human-animal interactions*. Springer.

Martín, J.G., Bustamante, F., Holst, I., Lara-Kraudy, A., Redwood, S., Sánchez-Herrera, L.A., Cooke, R.G. (2016). Ocupaciones prehispánicas en Isla Pedro González, Archipiélago de Las Perlas, Panamá. Aproximación a una cronología con comentarios sobre las conexiones externas. *Latin American Antiquity* 27(3): 378-396. DOI: 10.7183/1045-6635.27.3.378.

Cooke, R.G., Wake, T.A., Martínez-Polanco, M.F., Jiménez-Acosta, M., Bustamante, F., Holst, I., Lara-Kraudy, A., Martín, J.G., Redwood, S., 2016. Exploitation of dolphins at a 6000 yr old Pre-ceramic site in the Pearl Island Archipelago, Panama. *Journal of Archaeological Science: Reports* 6: 733-756.

López-Angarita, J., Roberts, C.M., Tilley, A., Hawkins, J.P., Cooke, R.G. 2016. Mangroves and people: Lessons from a history of use and abuse in four Latin American countries. *Forest Ecology and Management* 368:151-162.

Stange, M., Aguirre-Fernández, G., Cooke, R.G., Barros, T., Salzburger, W., Sánchez-Villagra, M.R. 2016. Evolution of opercle bone shape along a microhabitat gradient: species identification using mtDNA and geometric morphometric analysis in neotropical catfishes. *Ecology and Evolution*. doi: 10.1002/ece3.2334

Grugni, V., Battaglia, V., Perego, U.A., Raveane, A., Lancioni, H., Olivieri, A., Ferretti, L., Woodward, S.R., Pascale, J.M., Cooke, R., Myres, N., Motta, J., Torroni, A., Achilli, A., Semino, O., 2015. Exploring the Y chromosomal ancestry of modern Panamanians. *PLoS ONE*, DOI:10.1371/journal.pone.0144223.

Martín, J.G., Mendizábal, T., Schreg, R., Cooke, R.G., Piperno, D., 2015. Pre-Columbian raised fields in Panama: First evidence. *Journal of Archaeological Science: Reports* <http://dx.doi.org/10.1016/j.jasrep.2015.08.018>. Exploring the Y chromosomal ancestry of modern Panamanians. *PLoS One*.

Martínez-Polanco, M.F., Jiménez-Acosta, M., Buckley, M., Cooke, R.G., 2015. Impactos humanos tempranos en fauna insular: El caso de los venados de Pedro González (Archipiélago de las Perlas, Panamá). *Archaeobios* 9 (1), diciembre 2015. ISSN 1996-5214.

Iizuka, F., Cooke, R.G., Vandiver, P. Frame. L., 2014. Inferring provenance, manufacturing technique, and firing temperatures of Monagrillo Ware (ca. 4,800-3,200 B.P.), Panama's first pottery. In, *Craft and science: International perspectives on archaeological ceramics*, edited by M. Martín-Torres y C. Cartwright. Doha, Qatar: Bloomsbury Qatar Foundation <http://dx.doi.org/10.5339/uclq.2014.cas.ch3>.

Cooke, R.G., Steadman, D.S., Jiménez-Acosta, M., Isaza-Aizprúa, I.I., 2013. Precolumbian exploitation of birds around Panama Bay. In, *The Archaeology of Mesamerican Animals*, edited by K. F. Emery and C. M. Gotz, pp. 479-530. Atlanta: Lockwood Press.

Cooke, R.G., Ranere, A.J., Pearson, G.A., Dickau, R. 2013. Radiocarbon chronology of early human settlement on the Isthmus of Panama (13,000-7,000 BP). Cultural affinities, environments and subsistence change. *Quaternary International*. <http://dx.doi.org/10.1016/qua.int.2013.1032>

Dickau, R., Redwood S., Cooke, R.G., 2012. A 4000-year-old shaman's stone cache at Casita de Piedra, western Panama. *Archaeological and Anthropological Sciences*. <http://dx.doi.org/10.1007/s12520-012.0112-5>

Cooke, R.G., 2012. The Gilcrease Collection and the *Gran Coclé* culture area of Panama: An assessment of provenience and chronology with comments on the iconography of pottery and metal-work. In, *To Capture the Sun: Gold of Ancient Panama*, pp. 129-173. Gilcrease Museum, Tulsa.

Perego, U.A., Lancioni, H., Tribaldos, M., Angerhofer, N., Ekins, J.E., Olivieri, A., Cooke, R., Pascale, J.M., Woodward, S.R., Motta, J., Achilli, A., 2012. Decrypting the mitochondrial gene pool of modern Panamanians. *PLoS (Genetics)* 7 (6), e38337

D. SYNERGISTIC ACTIVITIES

Outreach and education: I regularly give public lectures at Panama's universities, museums, colleges, civic groups and schools, both in the metropolitan area and in the provinces. I have been active in the ¡Chispa! programme run by STRI, which encourages children from marginalized areas of the city to engage in sciences. I receive ¡Chispa! students at my laboratory where have talks and hands-on displays that include cultural and biological materials. The last two field projects for which I was responsible--one on the Pearl Islands (2007-2015) and

the other in the Central Provinces (1992-2001)--employed local students and townspeople as assistants, and attracted volunteers from Panama and many other American and European countries. I have been reader for many doctoral and *licenciatura* theses (equivalent to MA or MSc) at universities in the US, Panama, Costa Rica and Colombia.

Research and training: As my recent publications show, my research is interdisciplinary and requires active collaboration with several specialists in other historical disciplines, taxonomy and ecology. Recently, I have attracted first degree and PhD candidates and post-doctoral fellows interested in bioanthropology, instrumental analysis of pre-Columbian ceramics, zooarchaeology, and malacology. Many of these in turn receive short-term fellows and interns. Currently, bioanthropology fellow, Nichole Smith-Guzmán, has tutored students from Harvard University and the Universidad Central de Venezuela and the University of Panama

Research and training: I have been a member of the National System of Researchers (SNI) at Panama's National Secretariat for Science and Technology (SENACYT) since 2008. I use all the funds assigned to me annually for supporting my Ngäbe Native American zooarchaeology assistant, who has been working for me for 20 years, analyzing archaeofaunas and using zooarchaeological specimens to identify new catfish species, and expand general knowledge about pre-Columbian zoogeography and biological diversity.