

Lida Pigott Burney
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EDUCATION:

University of North Carolina-Greensboro, 1967-68.
North Carolina State University, Raleigh, NC, 1968-72. Food Science.

GRANTS AWARDED:

East African Wildlife Society, Nature Conservancy, African Wildlife Foundation, Elsa Fund, Fauna Preservation Society of London, Schering-Plough, Inc., Fordham University Development Grants, Kilauea Point Natural History Society, US Fish & Wildlife Service, USDA Natural Resources Conservation Service.

PROFESSIONAL EXPERIENCE:

U.S. Forest Service, Cherokee National Forest, Youth Conservation Corps Environmental Education Specialist, 1976.

NC Division of Parks, Stone Mountain State Park, Director, Youth Conservation Corps 1977.

National Park Service, Cape Lookout National Seashore, Naturalist, 1980.

Paleoecological Laboratory Technician, Duke University, 1983-86.

University of Nairobi, Botany Dept., Research Associate, 1984-85.

Paleoecological Laboratory Manager, Fordham University, 1989-2004.

Aero-allergen Monitoring Station Manager, Louis Calder Biological Station, Fordham University, 1998-2004.

OTHER WORK EXPERIENCE:

Technical consultant: contracts with the National Museums of Kenya, The Nature Conservancy, BBC Natural History Unit, and other organizations to provide scientific and/or media assistance.

Television appearances: have made presentations on my research for the *National Geographic Channel*, *PBS*, *Pacific Filmworks*, and *Hawaii Public Television*.

Writer/photographer: frequent contributor to magazines; have supplied photographs for books, brochures and gallery exhibitions. ..

Part-time instructor at technical institutes (biological topics): Central Piedmont Community College, 1976; Stanly Technical Institute, 1974-76.

Farm manager, Garner, NC, 1972-73.

ADVANCED TECHNICAL TRAINING:

Sediment Coring Techniques: tutorial and field work with D.A. Livingstone, 1983-84.
Workshop experience in corer design and construction.

Sedimentary Geology: undergraduate course with Duncan Heron, 1983.

Multidisciplinary Archaeological Excavation: post-doctoral training and professional collaborations with Henry Wright and David Steadman.

Advanced speleological techniques: professional collaborations with Storrs Olson.

Dating Methods: professional collaborations with Beta Analytic Laboratory (AMS ¹⁴C), James Cowart (U-series) and Gordon Jacoby (dendrochronology).

Harvard University, Aerobiological Certification: Pollen (1998) and Fungus Spore (2000) Identification)

UNIVERSITY TEACHING EXPERIENCE:

Paleoecological Laboratory Techniques – taught graduate student tutorials at Fordham University and University of Nairobi.

PROFESSIONAL SERVICE:

Symposium Organizer: “Cave Research and Conservation” for the Natural History Conference II, New York State Museum, 1992.

“Island Paleoecology: Draining the Past to Irrigate the Future” for the Society for Conservation Biology, Hilo, HI, 2001.

Interviewed by: *National Public Radio*, *PBS-TV*, and *Science Times Television*.

Participant in NSF-sponsored workshops on climate/vegetation monitoring and databases, Kona, HI, 2008.

Member American Academy of Allergy, Asthma, and Immunology.

FULL-LENGTH, PEER-REVIEWED PUBLICATIONS:

These are scientific journal articles that were subjected to substantial peer review. For non-reviewed publications, see next section “Other Relevant Publications.”

McNeil, C.L., D.A. Burney, and L.P. Burney, 2010. Evidence disputing deforestation as the cause for the collapse of the ancient Maya polity of Copan, Honduras.

Proceedings of the National Academy of Sciences, USA 107:1017-1022.

1 Burney, D.A. and L.P. Burney, 2007. Paleoecology and “inter-situ” restoration on Kaua`i, Hawai`i. *Frontiers in Ecology and the Environment* 5(9): 483-490.

- Robinson, G.S., L.P. Burney, and D.A. Burney, 2005. Landscape paleoecology and megafaunal extinction in southeastern New York State. *Ecological Monographs*, 75:295-315.
- Burney, D.A., L.P. Burney, L.R. Godfrey, W.L. Jungers, S.M. Goodman, H.T. Wright, and A.J.T. Jull, 2004. A chronology for late prehistoric Madagascar. *Journal of Human Evolution* 47:25-63.
- Burney, D.A., G.S. Robinson, and L.P. Burney, 2003. *Sporormiella* and the late Holocene extinctions in Madagascar. *Proceedings of the National Academy of Sciences, USA*. 100: 10800-10805.
- Burney, L.P., and D.A. Burney, 2003. Charcoal stratigraphies for Kaua`i and the timing of human arrival. *Pacific Science*. 57(2):211-226.
- Burney, D.A., H.F. James, L.P. Burney, S.L. Olson, W. Kikuchi, W.L. Wagner, M. Burney, D. McCloskey, D. Kikuchi, F.V. Grady, R. Gage, and R. Nishek, 2001. Fossil evidence for a diverse biota from Kaua`i and its transformation since human arrival. *Ecological Monographs* 71(4):615-641.
- Wright, H.T., P. Verin, Ramilisonina, D.A. Burney, L.P. Burney, and K. Matsumoto, 1996. The evolution of settlement systems in the Bay of Boeny and the Mahavavy River Valley, north-western Madagascar. *Azania* 31:37-73.
- Burney, D.A., R.V. DeCandido, L.P. Burney, F.N. Kostel-Hughes, T.W. Stafford, Jr., and H.F. James, 1995. A Holocene record of climate change, fire ecology and human activity from montane Flat Top Bog, Maui. *Journal of Paleolimnology* 13: 209-217.
- Burney, D.A., L.P. Burney, and R.D.E. MacPhee, 1994. Holocene charcoal stratigraphy from Laguna Tortuguero, Puerto Rico, and the timing of human arrival on the island. *Journal of Archaeological Science* 21(3): 273-281.
- Burney, D.A., and L.P. Burney, 1993. Modern pollen deposition in cave sites: Experimental results from New York State. *New Phytologist* 124: 523-535.
- Burney, D.A., and L.P. Burney, 1987. Recent paleoecology of Nags Head Woods on the North Carolina Outer Banks. *Bulletin of the Torrey Botanical Club* 114(2): 156-168.

OTHER RELEVANT PUBLICATIONS

Full-length, peer-reviewed publications in review (*), *short articles in peer-reviewed journals* (**), *conference proceedings and published abstracts* (+), *magazine articles* (§), *theses* (t), and *book reviews* (r).

- Burney, D.A. and L.P. Burney 2008. Inter situ conservation: Opening a “third front” in the battle to save rare Hawaiian plants. *BGjournal* 6(1): 16-19. §

- Burney, D.A. and L.P. Burney, 2008. Time portal. *Natural History* October, p. 74. §
- Burney, D.A. and L.P. Burney, 2007. Learning from the past to save plants for the future. *Public Garden* 3: 30-33. §
- Burney, D.A. and L.P. Burney, 2007. Ecological restoration through community outreach (and community outreach through ecological restoration). *The Bulletin of the National Tropical Botanical Garden* 25: 8-13. §
- Burney, D.A., L.P. Burney, W.L. Jungers, and L.R. Godfrey, 2004. Radiocarbon dating of the extinctions in late prehistoric Madagascar. *American Journal of Physical Anthropology* Suppl. 38:70-71. +
- Robinson, G., D.A. Burney, and L.P. Burney, 2001. Landscape paleoecology and late Quaternary extinctions in the Hudson Valley. *Geological Society of America Abstracts* 33(1):2743. +
- Robinson, G., D.A. Burney, and L.P. Burney, 2000. Megafaunal fossil sites of the lower Hudson Valley region. *New York Natural History Conference* VI:41. +
- Burney, D.A., D.W. Steadman, D.M. McCloskey, and L.P. Burney, 1994. Stratigraphy and paleoecology of the Otisville Mastodon Site. *Proceedings of the New York Natural History Conference* III. +
- Burney, D.A., L.P. Burney, J.-G. Rafamantanantsoa, R.D. D'Arrigo, and G.C. Jacoby, 1993. Laminated sediment cores, tree-ring records, and laminated speleothems from Madagascar. *Eos* 4/20:93. +
- Burney, D.A., and L.P. Burney, 1992. Interpreting paleoecological records from cave sites: experimental results from New York State. *Proceedings of the New York Natural History Conference* II:30. +
- Burney, D.A., L.P. Burney, R. DeCandido, F. Kostel-Hughes, N. Reyes, and K. Matsumoto, 1992. Palynological indicators of human impacts on oceanic islands: examples from Madagascar, Hawaii, and Puerto Rico. *Bulletin of the Ecological Society of America* 73(2):129. +
- Livingstone, D.A., J. Maley, M.A. Sowunmi, D. Burney, P. Bailey, L. Burney, A. Tucker, and J.M. Maitima, 1987. New pollen diagrams from tropical Africa. *INQUA* XII:214. +
- Livingstone, D.A., L.P. Burney, P. Bailey, D.A. Burney, and A.E. Tucker, 1986. Late Quaternary pollen diagrams from eastern tropical Africa. In, *The Longest Record*, Berkeley, CA. +
- Burney D.A., and L.P. Burney, 1979. Cheetah and man. *Swara* 2(2):24-29. §
- Burney, D.A., and L.P. Burney, 1979. Cheetah and man, part II. *Swara* 2(3):28-32. §

