

Noel T. Boaz
Brief Curriculum Vitae

Address: Department of Anatomy, Ross University School of Medicine, P.O. Box 266, Portsmouth, Commonwealth of Dominica; tel. 767/255-6500, ext. 6225; fax 767/445-3457; res. 767/445-4031; e-mail: nboaz@rossmed.edu.dm OR e-mail: ntboaz@earthlink.net

Date of Birth: February 8, 1952

Place of Birth: Virginia, U.S.A.

Education:

- Phillips Exeter Academy, Exeter, New Hampshire - graduated High Honors 1970
(coursework centered in Anthropology, Biology, Evolution, and Ecology)
- University of Virginia, Charlottesville (with applied Summer Session credit at Harvard University and University of California, Berkeley), B.A. with Distinction
1973 - University Major in Physical Anthropology (coursework centered in Anatomy [U.Va. Medical School Gross Anatomy [Langman] and Neuroanatomy [Heimer] taken with graduate student status], Anthropology, Biology, Genetics, and Environmental Sciences); laboratory assistant [anatomy prosector] in University of California, Berkeley
Department of Anatomy and Physiology
- University of California, Berkeley, M.A. in Anthropology 1974 - coursework in Anatomy (Gross and Comparative/Paleontology), Anthropology (Biological), and Archaeology; R.H. Lowie Fellow; M.A. Committee: F. Clark Howell and J. Desmond Clark
- University of California, Berkeley, Ph.D. in Anthropology 1977 - coursework/individual study courses and research in molecular genetics, biological anthropology, ecology and systematics, behavioral and ecological physiology, and functional morphology; R.H. Lowie Fellow and NSF Doctoral Research grantee; Ph.D. Examining Committee: Sherwood L. Washburn, F. Clark Howell, Vincent Sarich, Herbert Srebnik, and Glynn L. Isaac; Three Speciality Fields: Cranio-facial Morphology, Fossil Hominidae, Physical Anthropology. Doctoral dissertation treated evolution of hominid morpho-physiological adaptations in the African Plio-Pleistocene; title: "Paleoecology of Hominidae in the Lower Omo Valley, Ethiopia"
- Saba University School of Medicine, M.D. 2004 – Basic sciences completed 1995 – 1999, with applied credit from University of Washington School of Medicine/WWAMI; Core clinical rotations in Psychiatry, Obstetrics & Gynecology, Internal Medicine, Pediatrics, and Surgery; Elective clinical rotations in Radiology, Ophthalmology, Tropical Medicine, Geriatrics, Family Medicine, and Forensic Pathology

Title of Doctoral Dissertation:

"Paleoecology of Plio-Pleistocene Hominidae in the Lower Omo Basin, Ethiopia"

Positions:

Professor of Anatomy, Ross University School of Medicine, 2001 – present [and Director of Research Development, 2002 – present; Course Director for Gross Anatomy II 2005 -]

Founder and Director, International Institute for Human Evolutionary Research (non-profit), 1991 - present

Appointments as Adjunct Professor of Anthropology/Principal Investigator: Portland State University, Washington State University, and University of Oregon

Professor of Anatomical Sciences, Saba University School of Medicine, 1995-98 [course director for Gross Anatomy and Chair of Anatomy 1996-98]

Research Professor of Anthropology, George Washington University, 1991-94

Founding Director and Curator of Biological Anthropology, Virginia Museum of Natural History, 1984-91

Assistant Professor of Anatomy and Anthropology, New York University, 1978-84 [Director of Anthropology Graduate Studies 1981-82]

Lecturer, Department of Anthropology, University of California, Los Angeles, 1977-78

Senior Museum Scientist, Department of Anthropology, University of California, Berkeley, 1975-77

Staff Research Associate (Dissector), Department of Physiology and Anatomy, University of California, Berkeley, 1972

Consultantships:

Office of the Medical Examiner, Spokane County, Washington – Consultant in Forensic Anthropology - 1998 – 2000

Physicians for Human Rights, Bosnia Project – Forensic Anthropologist and Scientific Planning Director, April – December, 1999

Research Fellowships, Grants, and Awards¹:

Regents' Fellowship, University of California, Berkeley 1974-75

Robert H. Lowie Fellowships, University of California, Berkeley 1975-76, 1976-77

National Science Foundation Doctoral Research Grant 1976

L.S.B. Leakey Foundation Grant for Research in the Libyan Miocene (with F.C. Howell) 1977

Wilkie Foundation Grant for Field Research at Sahabi, Northern Libya (with F.C. Howell) 1977

L.S.B. Leakey Foundation Grant "Sahabi: Its Relevance for Investigating Hominid Origins" 1978

National Geographic Society Grant "Paleoanthropological Research at Sahabi, Northern Libya" 1978

L.S.B. Leakey Foundation Grants "Paleontological and Geological Analysis of Gasr as-Sahabi, Libya" 1978; "Paleoanthropological Research in the Upper Miocene at

¹ Not including private, corporate, and governmental funding totaling over \$8 million raised during a seven-year period, as Founding Director of the Virginia Museum of Natural History

Sahabi, Libya" 1979; "Microfaunal Sampling at the Upper Neogene Site of Sahabi" 1979

Spencer Foundation Grant (New York University) "Paleoanthropological and Paleoeological Investigations into the Evolution of Human Behavior" 1979

National Science Foundation Grant "Paleoanthropological Investigation of the Upper Miocene Site of Sahabi, Libya" 1980-82

Research Challenge Fund Grant (New York University) "Early Hominid Research at Sahabi, Libya" 1980

L.S.B. Leakey Foundation Grant "Excavation, Paleontology, and Paleoanthropology at Sahabi, Libya" 1980

Presidential Fellowship, New York University 1981

Rolux Awards for Enterprise Honourable Mention "Exploration for the World's Earliest Hominids in the Libyan Sahara" 1981

Wenner-Gren Foundation Grant-in-Aid "To Aid Paleoanthropological Investigation, Semliki Valley, Zaire" 1982 \$6,000

Research Challenge Fund Grant (New York University) "Paleoanthropological Investigation of the Lower Semliki Valley, Zaire" 1982

Earthwatch Grant "Paleoanthropological Excavation in the Western Rift Valley, Zaire" 1983

Fulbright Senior Research Fellowship - Research in Zaire 1983-84

Earthwatch Grant "Paleoanthropological Research in the Semliki Valley, Zaire" 1984

Wenner-Gren Foundation Grant-in-Aid "Hominid Evolution in Zaire" 1984

National Geographic Society Grant "Paleoanthropological Research in the Semliki Valley, Zaire" 1984 (\$29,000)

National Science Foundation Grant "Paleoanthropological Investigation of the Semliki Valley, Zaire" 1985-86 (\$90,195)

L.S.B. Leakey Foundation Grant "Stratigraphic Research in the Semliki Valley, Zaire" (For J. Verniers) 1985-86 (ca. \$5,000)

National Science Foundation Grant "Paleoanthropological Investigation of the Semliki Valley, Zaire" (with J.W.K. Harris and A.S. Brooks) 1986-89 \$272,160 (with supplementary awards under Research Experiences for Undergraduates of \$8,400 [1987-88] and \$4,015 [1988-1989])

Earthwatch Grants "Paleontological Excavation of the Pliocene Site of Senga 13B, Zaire" 1988 (\$15,200), 1989 (\$19,500), 1990 (\$9750, with P. Pavlakis)

National Science Foundation Grant for Emergency Relocation of Research Equipment, Zaire 1992 (\$5,000)

Earthwatch Grant "Ancient Environments and Evolution in the African Western Rift, Uganda" for 1993 (\$22,320 - \$28,320)

Meyerhoff Visiting Professor, Weizmann Institute of Science, Rehovot, Israel, 1993-1994

International Research Exchanges Board (IREX) Grant "Paleoanthropological Advances in Eastern and Central Europe 1995 (\$20,000)

National Science Foundation Grant "Paleoanthropological Investigations of Miocene to Pliocene Primate-bearing Deposits at Sahabi and Jabal Zelten in Eastern Libya: Fossil Collection, Age, and Environmental Context" 2005 (\$40,000, with B. Benefit and M. McCrossin, New Mexico State University)

Courses Taught

Lecture:

"The Evolution of Man" Anthropology 11, UCLA, Fall 1977

"Evolution and Biology of Human Behavior" Anthropology 131, UCLA, Winter 1978

"Human Evolution and Prehistory" Anthropology A14.0002, New York University, Fall 1982

"Evolution and Biology of Human Behavior" Anthropology V14.0052, New York University, Fall 1982

"Fossil Evidence for Hominid Evolution" Anthropology V14.0050, New York University, Spring 1983

"Introduction to Biological Anthropology" Anthropology 0001, George Washington University, Fall 1991

"Living Legacy: The Present Relevance of Our Evolutionary Past" Anthropology 100, George Washington University Continuing Education, Winter 1993

"Missing Link: Current Issues in Paleoanthropology" Anthropology Continuing Education Course, Central Oregon Community College, Spring 1995

"Medical Embryology" Saba University School of Medicine, Fall 1995, Winter, Spring, and Fall 1996; Winter, Spring, and Fall 1997; Winter, Spring, and Fall, 1998

"Forensic Anthropology" University of Sarajevo (Bosnia), Fall 1999

"Human Evolution" Washington State University, Pullman Fall 2000

Lecture/Laboratory:

"Comparative Morpho-Physiology of the Higher Primates" Anthropology 132, UCLA, Spring 1978

"Human Gross Anatomy" New York University School of Medicine, Fall 1978, 1979, 1980

"Comparative Anatomy of the Primates" Anthropology G14.1515, New York University, Spring 1980, Fall 1981

"Fossil Evidence for Hominid Evolution" Anthropology G14.1519, New York University, Fall 1982

"Human Gross Anatomy" Saba University School of Medicine, Fall 1995, Winter, Spring, Fall, 1996; Winter, Spring, And Fall 1997; Winter, Spring, and Fall 1998

"Forensic Anthropology of the Death Scene" Washington State University, Spokane Summer 2000

"Human Gross Anatomy" Ross University School of Medicine, Winter, Summer, and Fall 2001 - present

Seminar:

"Paleoecology of Early Hominidae" Anthropology 280, UCLA, Spring 1978

"Hominid Paleontology and Taphonomy" Anthropology G14.3218, New York University, Spring 1979

"Fossil and Biomolecular Phylogenies of the Primates" Anthropology G14.1931, New York University, Spring 1979

"Reconstruction of the Behavior of Early Hominidae" Anthropology G14.1935, New York University, Spring 1980

"Current Issues in Physical Anthropology" Anthropology V14.0512, New York University, Spring 1982
"Human Evolution: Problems and Perspectives" Anthropology G14.2519, New York University, Spring 1982
"Earth Science Perspectives in Paleoanthropology" Anthropology G14.3398, New York University, Spring 1983
"Proseminar in Biological Anthropology" Anthropology 201, George Washington University, Spring 1993

Languages Read/Spoken:

French, German, and Spanish [reading competency examinations passed for doctoral degree, U.C. Berkeley]; Italian (reading knowledge); Arabic and Swahili (field languages)

Associations:

American Association of Clinical Anatomists
American Anthropological Association
American Association for the Advancement of Science
American Association of Physical Anthropologists
Current Anthropology Associate
Explorers Club, Fellow
Human Biology Association
Royal Anthropological Institute of Great Britain and Ireland, Fellow
Society of Vertebrate Paleontology

Areas of Research Interest and Specialization:

Biomedical Anthropology, Evolutionary Medicine, Forensic Anthropology, Pathology, and Preventive Medicine
Hominoid Gross Anatomy, Clinical Anatomy, Physical Anthropology, Osteology, Functional Morphology, and Developmental Anatomy
Hominid Evolution (from pre-australopithecines to *Homo sapiens*), Evolutionary Biology
Paleoecology and Paleoenvironment, Vertebrate Paleontology, Taphonomy, and Biostratigraphy, Especially of the Old World Cenozoic
History of Science & Medicine

Public Service:

President, International Foundation for Human Evolutionary Research, 1991-
Founder, Virginia Museum of Natural History, June 25, 1984
President, Virginia Museum of Natural History Foundation, 1984-89
President, Blue Ridge-Piedmont Cultural Consortium, 1987-88
Board Member, Virginia Historic Landmarks Board, Commonwealth of Virginia, 1987-88
Editor, *Physical Anthropology News*, 1993-1997
Cub Scout Den Leader, Pack 430, Spokane, Washington, 2000

Field Work:

Omo Research Expedition, Ethiopia - Excavation and paleontological survey, 1973

Suguta Valley, Kenya - Paleontological reconnaissance, 1973
 Omo Research Expedition, Ethiopia - Excavation and paleontological survey, 1974
 Rukwa Valley, Tanzania - Paleontological reconnaissance, 1974
 Museum study of European and African fossil hominids, 1975-76
 Qasr as-Sahabi, Libya - Paleontological reconnaissance, 1975
 International Sahabi Research Project (Director) - Field seasons: November, 1976;
 June-July, 1977; June-September, 1978; February-March, 1979; June-
 July, 1980; December, 1980 - March, 1981
 Museum study of European and African fossil Miocene hominoids - July-August, 1979;
 July-August, 1980
 Sinda-Mohari and Semliki Valley, Zaire - Paleontological reconnaissance, July-August,
 1982
 Semliki Research Expedition (Director) - Field seasons: June-August, 1983; November,
 1983 - March, 1984; January-February, 1985; July, 1985; July, 1986; July-
 August, 1988; June-September, 1989; June-July, 1990
 Western Rift Research Expedition - Uganda (Director) - Field season June-August,
 1993
 Forensic Assistance Project in Bosnia, Physicians for Human Rights (Consultant
 Forensic Anthropologist) April - December, 1999

Selected Publications:

Boaz, N.T.

1974 Positional and directional correlation of muscle attachments and split-line
 patterns in the pelvic region. *Southeastern Review* (University of Virginia)
 1(2):123-133.

Boaz, N.T., and A.K. Behrensmeyer

1976 Hominid taphonomy: Transport of human skeletal elements in an artificial
 fluvial environment. *American Journal of Physical Anthropology* 45:53-
 60.

Johanson, D.C., M. Splingaer, and N.T. Boaz

1976 Paleontological excavations in the lower Omo Valley, Ethiopia. In:
 Coppens, Y., F.C. Howell, G.L. Isaac, and R.E.F. Leakey, eds. *Earliest
 Man and Environments in the Lake Rudolf Basin*, Chicago: University of
 Chicago Press. Pp. 402-420.

Boaz, N.T., and J.E. Cronin (eds.)

1977 *Berkeley Papers in Physical Anthropology*. Kroeber Anthropological
 Society Papers 50.

Boaz, N.T., and F.C. Howell

1977 A gracile hominid cranium from upper Member G of the Shungura
 Formation, Ethiopia. *American Journal of Physical Anthropology* 46:93-
 108.

- Boaz, N.T., and J. Hampel
1978 Strontium contents of tooth enamel and diet in early hominids. *Journal of Paleontology* 52:928-933.
- Boaz, N.T.
1979 Hominid evolution in eastern Africa during the Pliocene and early Pleistocene. *Annual Review of Anthropology* 8:71-85.
- Boaz, N.T., A.W. Gaziry, and A. El-Arnauti
1979 New fossil finds from the Libyan upper Neogene site of Sahabi. *Nature* 280:137-140.
- Boaz, N.T.
1979 Early hominid population densities: New estimates. *Science* 206:592-595.
- Boaz, N.T.
1980 A hominoid clavicle from the Mio-Pliocene of Sahabi, Libya. *American Journal of Physical Anthropology* 53:49-54.
- Cronin, J.E., N.T. Boaz, C.B. Stringer, and Y. Rak
1981 Tempo and mode in hominid evolution. *Nature* 292:113-122.
- Boaz, N.T.
1981 History of American paleoanthropological research on early Hominidae, 1925-1980. *American Journal of Physical Anthropology* 56:397-406.
- Boaz, N.T., D. Ninkovich, and M. Rossignol-Strick
1982 Paleoclimatic setting for *Homo sapiens neanderthalensis*. *Naturwissenschaften* 69:29-33.
- Boaz, N.T., and D.L. Cramer
1982 Fossils of the Libyan Sahara. *Natural History* 91:34-41.
- Boaz, N.T.
1982 American research on australopithecines and early *Homo*, 1925-1980. In: Spencer, F., ed. *History of American Physical Anthropology, 1930-1980*. New York: Academic Press. Pp. 239-260.
- Boaz, N.T., and W.E. Meikle
1982 Fossil remains of primates (Cercopithecoidea and Hominoidea) from the Sahabi Formation. *Garyounis Scientific Bulletin, Special Issue* 4:41-48.
- Boaz, N.T.
1982 Aspects of early hominid emergence. *Reviews in Anthropology* 9:313-319.
- Spencer, F., N.T. Boaz, M. Allen, and W.C. McGrew

- 1982 Biochemical detection of fecal hematin as a test for meat-eating in chimpanzees (*Pan troglodytes*). *American Journal of Primatology* 3:327-332.
- Boaz, N.T., F.C. Howell, and M.L. McCrossin
1982 Faunal age of the Usno, Shungura B and Hadar Formations, Ethiopia. *Nature* 300:633-635.
- Boaz, N.T.
1983 Morphological trends and phylogenetic relationships from middle Miocene hominoids to late Pliocene hominids. In: Ciochon, R.L., and R.S. Corruccini, eds. *New Interpretations of Ape and Human Ancestry*. New York: Plenum. Pp 705-720.
- Boaz, N.T., and L.H. Burckle
1984 Paleoclimatic framework for African hominid evolution. In: Vogel, J.C., ed. *Late Cainozoic Palaeoclimates of the Southern Hemisphere*. Rotterdam: Balkema. Pp. 483-490.
- Boaz, N.T.
1985 Early hominid paleoecology in the Omo basin, Ethiopia. In: Coppens, Y., ed. *L'Environnement des Hominidés au Plio-Pléistocène*. Paris: Fondation Singer-Polignac. Pp. 283-312.
- Boaz, N.T.
1987 Sahabi and Neogene hominoid evolution. In: Boaz, N.T., et al., eds. *Neogene Paleontology and Geology of Sahabi, Libya*. New York: Liss. Ibid., pp. 129-134.
- Harris, J.W.K., P.G. Williamson, J. Verniers, M.J. Tappen, K. Stewart, D. Helgren, J. de Heinzelin, N.T. Boaz, and R.V. Bellomo
1987 Late Pliocene hominid occupation in Central Africa: The setting, context, and character of the Senga 5A site, Zaire. *Journal of Human Evolution* 16:701-728.
- Boaz, N.T.
1988 Status of *Australopithecus afarensis*. *Yearbook of Physical Anthropology* 31:85-113.
- Boaz, N.T., ed.
1990 *Evolution of Environments and Hominidae in the African Western Rift Valley*. Virginia Museum of Natural History Memoir No. 1. 356 pp.
- Boaz, N.T., P. Pavlakis, and A.S. Brooks
1990 Late Pleistocene-Holocene human remains from the Upper Semliki, Zaire. In: Ibid., pp. 273-299.

- Boaz, N.T.
1992 Climate and evolution: First steps into the human dawn. *Earth* 1:36-43.
- Boaz, N.T., R.L. Bernor, A.S. Brooks, H.B.S. Cooke, J. de Heinzelin, R. Dechamps, E. Delson, A.W. Gentry, J.W.K. Harris, P. Meylan, P.P. Pavlakis, W.J. Sanders, K. M. Stewart, J. Verniers, P.G. Williamson, and A. J. Winkler
1992 A new evaluation of the significance of the Late Neogene Lusso Beds, Upper Semliki Valley, Zaire. *Journal of Human Evolution* 22:505-517.
- Boaz, N.T.
1993 Human origins. In: *Milestones in Human Evolution. Perspectives in Human Evolution, Volume 6*. Eds. A.J. Almquist and A. Manyak. Prospect Heights, Ill.: Waveland Press, pp. 141-166.
- Boaz, N.T.
1993 *Quarry: Closing In On the Missing Link*. New York: Free Press/Macmillan.
- Boaz, N.T.
1994 Significance of the Western Rift for Hominid Origins. In: *Integrative Paths to the Past: Paleoanthropological Advances in Honor of F.C. Howell*. Eds. R.S. Corruccini and R.L. Ciochon. New York: Prentice-Hall, pp. 321-343.
- Boaz, N.T., P. Pavlakis, M. McDonell, and J. Gatesy
1994 Early hominid environments in the late Pliocene of eastern Zaire: Analysis of the Senga 13B excavation. *National Geographic Research and Exploration* 10:124-127.
- Boaz, N.T., and L. Wolfe (eds.)
1995 *Biological Anthropology: The State of the Science*. Bend, Oregon: International Institute for Human Evolutionary Research. 267 pp. (2nd edition 1997).
- Boaz, N.T.
1995 Calibration and Extension of the Record of Plio-Pleistocene Hominidae. In: *Biological Anthropology: The State of the Science*. Eds. N.T. Boaz and L. Wolfe. Bend: IIHER, pp. 23-47.
- Boaz, N.T.
1996 Vertebrate paleontology and terrestrial paleoecology of Sahabi and the Sirt Basin. In: *Sedimentary Basins of Libya, Vol. 1*, ed. M. Salem. The Hague: Elsevier.
- Boaz, N.T. and A.J. Almquist
1997 *Biological Anthropology, A Synthetic Approach to Human Evolution*. Upper Saddle River, NJ: Prentice-Hall. 608 pp.

- Boaz, N.T.
1997 Calibration and Extension of the Record of Plio-Pleistocene Hominidae. In: *Biological Anthropology: The State of the Science*. 2nd edition. Eds. N.T. Boaz and L. Wolfe. Bend: IIHER, 25-52.
- Boaz, N.T.
1997 *Eco Homo: How the Human Being Emerged from the Cataclysmic History of the Earth*. New York: Basic Books.
- Boaz, N.T. and A.J. Almquist
1998 *Essentials of Biological Anthropology*. Saddle River, NJ: Prentice Hall.
- Boaz, N.T., R.L. Ciochon, Xu Qinqi, and Liu Jinyi
2000 Large mammalian carnivores as a taphonomic factor in the bone accumulation at Zhoukoudian. *Acta Anthropologica Sinica*, Suppl. vol. 19:224-234.
- Boaz, N.T. and R.L. Ciochon
2001 The scavenging of "Peking Man". *Natural History* 110(2):46-51.
- Boaz, N.T. and A.J. Almquist
2002 *Biological Anthropology, A Synthetic Approach to Human Evolution*. Upper Saddle River, NJ: Prentice-Hall. 2nd ed.
- Boaz, N.T.
2002 *Evolving Health: The Origins of Illness and How the Modern World is Making Us Sick*. New York: Wiley.
- Boaz, N.T. and R.L. Ciochon
2004 *Dragon Bone Hill: An Ice-Age Saga of Homo erectus*. New York: Oxford University Press.
- Boaz, N.T., R.L. Ciochon, Xu Qinqi, and Liu Jinyi
2004 Mapping and taphonomic analysis of the *Homo erectus* Loci at Locality 1 Zhoukoudian, China. *Journal of Human Evolution* 46:519-549.
- Boaz, N.T.
In Prep. Evolution of the Male Genitalia. Oxford University Press.