

Curriculum Vitae

Karen L. Baab

Education

2007 PhD, City University of New York, Anthropology
2003 MA, Hunter College, Anthropology
1996-2000 BA (Honors, Summa cum laude), Muhlenberg College, History and Anthropology

Employment

2008-present Lecturer, Department of Anatomical Sciences, Stony Brook University
2000-2007 Graduate Student Researcher, American Museum of Natural History
2002-2005 Adjunct Lecturer, Lehman College
2003-2004 Adjunct Lecturer, Medical Gross Anatomy,
The Sophie Davis School of Biomedical Education (CUNY)

Courses Taught

Human Origins
Medical Gross Anatomy
Introduction to Human Evolution

Grants, Awards and Fellowships

2005-2007 Leakey Foundation Research Grant
2004-2007 National Science Foundation Doctoral Dissertation Improvement Grant
2004 Sigma Xi Grants-In-Aid of Research
2000-2004 National Science Foundation Graduate Research Fellowship
2000-2006 Robert E. Gilleece Fellowship, City University of New York

Theses

Cranial shape variation in *Homo erectus*. Ph.D. Thesis, City University of New York
Nasal morphology and climate in Neanderthals MA Thesis, Hunter College

Peer Reviewed Publications

- 2008 **Baab, K.L.** The taxonomic implications of cranial shape variation in *Homo erectus*.
Journal of Human Evolution. 54: 827-847.
- 2008 **Baab, K.L.**, A re-evaluation of the species affinities of KNM-ER 42700. Journal of
Human Evolution. 55: 741-746.
- 2008 **Baab, K.L.**, McNulty, K.P. Scaling and asymmetry in fossil hominins: the status of
the LB1 cranium based on 3D morphometric analyses. Journal of Human
Evolution. Early View.
2009. **Baab, K.L.**, Freidline, S.E. and Wang, S.L. The relationship of cranial robusticity to
cranial form, geography and climate in *Homo sapiens*. American Journal of
Physical Anthropology. Early View.

- In press. **Baab, K.L.** Cranial shape in Asian *Homo erectus*: geographic, anagenetic, and size-related variation. In: Norton, C.J., Braun, D.R. (Eds.) Asian Paleoanthropology: From Africa to China and Beyond. Springer.
- In press. Toussaint, M., **Baab, K.L.** and Harvati, K. The Spy scapulae. In Semal & Hauzeur (Eds): Spy cave, State of 120 Years of Pluridisciplinary Research on the Betcheaux-Rotches from Spy (Jemeppe-sur-Sambre, Province of Namur, Belgium). Anthropologie et Préhistoire.
- In prep. **Baab, K.L.**, Rohlf, F.J. Geometric morphometrics in physical anthropology: applications and challenges. Evolutionary Anthropology.

Abstracts

2009. **Baab, K.L.** and Jungers, W.L. Cranial shape variation in extant and giant subfossil lemurs from Madagascar. American Journal of Physical Anthropology.
- 2008 **Baab, K.L.** A shape-based species definition for *Homo erectus*. American Journal of Physical Anthropology (S46): 62.
- 2007 **Baab, K.L.**, McNulty, K.P., Brown, P. Allometric scaling of craniofacial shape: implications for the Liang Bua hominins. PaleoAnthropology A2.
- 2007 **Baab, K.L.** Magnitude and pattern of geographic variation in cranial shape within *Homo erectus*, especially from Asia. American Journal of Physical Anthropology (S 44): 66-67.
- 2006 **Baab, K.L.**, Friedline, S.E. and Wang, S.L. An investigation of robusticity in modern human crania: implications for *Homo erectus*. PaleoAnthropology A50.
- 2006 McNulty, K.P. and **K.L. Baab**. 2006. Sexual dimorphism in hominine supraorbital morphology. American Journal of Physical Anthropology. 129 (S42): 128-129
- 2006 McNulty, K.P. and **Baab, K.L.** Sexual dimorphism in hominin supraorbital morphology. PaleoAnthropology. Appendix: A65.
- 2006 Harvati, K., Panagopoulou, E., Karkanus, P., Frost, S.R., Athanassiou, A., Elefanti, P., Schrein, C., **Baab, K.**, Henderson, E., Tournalonkis, E. and Garefalakis, C. New findings of the Aliakmon Paleolithic Survey, Greece 2004-2006. PaleoAnthropology. Appendix: A61.
- 2006 Harvati, K., Panagopoulou, E., Karkanus, P., Frost, S.R., Athanassiou, A., Elefanti, P., Schrein, C., **Baab, K.**, Henderson, E., Tournalonkis, E. and Garefalakis, C. New findings of the Aliakmon Paleolithic Survey, Greece 2004-2006. Presented to the congress of the International Union for Prehistoric and Protohistoric Sciences, Lisbon, Portugal, September 2006.

- 2004 **Baab, K.L.** and Harvati, K. A 3-D analysis of shape differences in the scapula between Neanderthals and modern humans using geometric morphometrics (abstract). *American Journal of Physical Anthropology*. 123 (S38): 57.
- 2003 **Baab, K.L.**, Ting, N., Capellini, T.D. and Hagell, S.E. Precision in 3-D landmark data collection for geometric morphometrics. *American Journal of Physical Anthropology*. 120 (S36): 61-62.
- 2003 Delson, E., Reddy, D., Rohlf, F.J., Frost, S., Friess, M., McNulty, K., **Baab, K.**, Capellini, T. and Hagell, S.E. 3-D visualization of inferred intermediates on a phylogenetic tree –implications for paleoanthropology. *American Journal of Physical Anthropology*. 120 (S36): 86-87.

Encyclopedia Articles

- 2007 Delson, E. and **Baab, K.L.** Fossil Humans in *McGraw-Hill Encyclopedia of Science and Technology* ed. 10, vol. 7, 464-478.
- 2009 **Baab, K.L.** Fossil Hominids from Dmanisi. 2009 *McGraw-Hill Encyclopedia of Science and Technology*.

Book / Conference Reviews

- 2009 **Baab, K.L.** Paleoanthropology 2009: The Chicago Meetings. *Evolutionary Anthropology*. 18: 84.
- In press. St. Clair, E.M. and **Baab, K.L.** Throwing light on human evolution in Africa. *Evolutionary Anthropology*.
- 2008 Book Review of *A New Human: The Startling Discovery and Strange Story of the "Hobbits" of Flores, Indonesia* (by M. Morwood and P. van Oosterzee, 2007). *American Journal of Physical Anthropology*. 136: 369-370.

Interviews

- 2009 Interviewed about *Homo floresiensis* by National Geographic News and Newsday.
- 2008 Interviewed about position of *Homo erectus* in human evolution for "A New Hominin" episode in the video teaching series "Introduction to Physical Anthropology."

Invited Lectures

- 04/2009 Department of Evolutionary Anthropology, Duke University
- 02/2009 Darwin's Legacy: Early Human Evolution in Africa, NYCEP
- 02/2008 Turkana Basin Institute and Paleobiology Seminar Series, Stony Brook University

Service

- 2003-2005 Physical Anthropology Student Representative, Executive Committee, CUNY Ph.D. Program in Anthropology

Fieldwork

- 2005-2006 Aliakmon Research Project, Greece (Dr. Katerina Harvati, Max Planck Institute)
2003-2005 1.8 Ma *Homo erectus* site of Dmanisi, Georgia (Dr. David Lordkipanidze, Georgian State Museum)
2001 2 Ma site of Senèze, France (Dr. Eric Delson, City University of New York)

Institutions Visited for Research

- Aristotle University of Thessaloniki, Thessaloniki, Greece 2004
Duckworth Collection at the University of Cambridge, Cambridge, United Kingdom 2004
Gadja Mada University, Yogyakarta, Indonesia 2006
Institut de Paleontologie Humaine, Paris, France 2004
Iziko: South African Museum, Cape Town, South Africa 2004
Max Planck Institut for Evolutionary Anthropology, Leipzig, Germany 2004
Musée de L'Homme, Paris, France 2004
Musée de Tautavel Centre Européen de Préhistoire, Tautavel, France 2004
Museo Nacional de Ciencias Naturales, Madrid, Spain 2004
National Museums of Tanzania, Dar es Salaam, Tanzania 2004
National Museums of Ethiopia, Addis Ababa, Ethiopia 2004
National Museums of Kenya, Nairobi, Kenya 2004
Natural History Museum, London, United Kingdom 2004
Naturalis Museum, Leiden, Netherlands 2004
Senckenberg Museum, Frankfurt, Germany 2004
Transvaal Museum, Pretoria, South Africa 2004
Universita' di Roma, Rome, Italy 2004
University of Cape Town, Cape Town, South Africa 2004
University of the Witwatersrand, Johannesburg, South Africa 2004