

## Curriculum Vitae

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### Karen L. Baab

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#### 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

2010-present Assistant Professor, Department of Anthropology, Stony Brook University  
2008-2010    Research Instructor, Department of Anatomical Sciences, Stony Brook University  
2000-2007    Graduate Student Researcher, American Museum of Natural History  
2002-2005    Adjunct Lecturer, Department of Anthropology, Lehman College  
2003-2004    Adjunct Lecturer, Department of Cell Biology and Anatomy, Sophie Davis  
                  School of Biomedical Education (CUNY)

#### Courses Taught

Human Anatomy	Undergraduate ( <i>Stony Brook University</i> )
Introduction to Physical Anthropology	Undergraduate ( <i>Stony Brook University</i> )
Seminar: Hominins in the Headlines	Advanced Undergraduate ( <i>Stony Brook University</i> )
Human Gross Anatomy	Dental ( <i>Stony Brook University</i> ); Medical ( <i>CUNY</i> )
Human Origins	Advanced undergraduate ( <i>CUNY</i> )
Introduction to Human Evolution	Undergraduate ( <i>CUNY</i> )

#### Grants, Awards and Fellowships

In review    **National Science Foundation** Research Grant (co-PIs: Jungers, Rohlf, Perry)  
                  “An Integrative Approach to the Evolution of the Lemuriform Skull” (\$94,774)  
2005-2007    **L.B.S. Leakey Foundation Research Grant**  
                  “Cranial Shape Variation in *Homo erectus*: A Geometric Approach” (\$4,500)  
2004-2007    **National Science Foundation** Doctoral Dissertation Improvement Grant  
                  “Cranial Variation in *Homo erectus*” (\$10,000)  
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  
2000           **Phi Beta Kappa** (Muhlenberg College)

## Theses

- 2007 **Ph.D.** City University of New York; “Cranial shape variation in *Homo erectus*”  
2004 **M.A.** Hunter College; “Nasal morphology and climate in Neanderthals”

## Peer Reviewed Publications

- 2010 McNulty, K.P. and Baab, K.L. 2010. Keeping asymmetry in perspective: A reply to Eckhardt and Henneberg. *American Journal of Physical Anthropology*. 143: 337-339
- 2010 **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*. New York: Springer, pp. 57-80.
- 2009 **Baab, K.L.**, McNulty, K.P. Size, shape 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., Wang, S.L, Hanson, T. Relationship of cranial robusticity to cranial form, geography and climate in *Homo sapiens*. *American Journal of Physical Anthropology*. Early View.
- 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.
- In press Toussaint, M., **Baab, K.L.**, 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., McNulty, K.P. Geometric morphometrics in physical anthropology: applications and challenges. *Evolutionary Anthropology*.

## Abstracts

- 2011 **Baab, K.L.** Rohlf, F.J., Jungers, W.L. Perry, J.M.G. Application of phylogenetic comparative methods to the adaptive radiation of Malagasy lemurs. *American Journal of Physical Anthropology*. 144 (S52): 79.
- 2010 **Baab, K.L.** Comparison of the LB1 neurocranium to extinct hominins, normal and pathological modern humans. *American Journal of Physical Anthropology*. 141 (S50): 59.
- 2009 **Baab, K.L.**, Jungers, W.L. Cranial shape variation in extant and giant subfossil lemurs from Madagascar. *American Journal of Physical Anthropology*. (S48): 81.
- 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., Wang, S.L. An investigation of robusticity in modern human crania: implications for *Homo erectus*. *PaleoAnthropology* A50.
- 2006 McNulty, K.P., **Baab, K.L.**. 2006. Sexual dimorphism in hominine supraorbital morphology. *American Journal of Physical Anthropology*. 129 (S42): 128-129
- 2006 McNulty, K.P., **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., 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., 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.**, 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., 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., 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.

### Other Publications

- 2011 Delson, E., **Baab, K.L.** Fossil Humans in *McGraw-Hill Encyclopedia of Science and Technology* ed. 10, vol. 7, 464-478.
- 2010 Jungers, W., **Baab, K.** 2010. The geometry of hobbits: *Homo floresiensis* and human evolution. *Significance*. 6: 159-194.
- 2009 McNulty, K.P, **Baab, K.L.** The Fossil “Hobbits” of Flores: Perspectives from morphometric simulation. *AnthroQuest* (Newsletter of The Leakey Foundation).
- 2009 **Baab, K.L.** Fossil Hominids from Dmanisi. 2009 *McGraw-Hill Encyclopedia of Science and Technology*.
- 2009 **Baab, K.L.** Paleoanthropology 2009: The Chicago Meetings. *Evolutionary Anthropology*. 18: 84.
- 2009 St. Clair, E.M., **Baab, K.L.** Throwing light on human evolution in Africa. *Evolutionary Anthropology*. 18: 121-122.

- 2008 **Baab, K.L.**, 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 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

- 2010-present Library representative, Department of Anthropology, Stony Brook University  
 2003-2005 Physical anthropology student representative, Executive Committee, CUNY Ph.D. Program in Anthropology

### Fieldwork

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

### Institutions Visited for Research

American Museum of Natural History, New York, NY	2004-2009
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
Mutter Museum, Philadelphia, PA	2008
National Museum of American History, Washington D.C.	2008
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 Kindgom	2004
Naturalis Museum, Leiden, Netherlands	2004
Peabody Museum (Harvard University), Cambridge, MA	2006, 2008
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