

Thomas P. Eiting

Program in Organismic and Evolutionary Biology
University of Massachusetts Amherst
321 Morrill Science Center
Amherst, MA 01003
tpeiting@bio.umass.edu

Research Interests: Evolutionary tradeoffs in vertebrate sensory perception; functional morphology, fossil record, and evolution of bats

Education

2007-present	Ph.D. Student, University of Massachusetts Amherst
2006	M.S. Geological Sciences, University of Michigan
2004	B.S. Biology, University of Texas at Austin
2004	B.S. Geological Sciences, University of Texas at Austin

Selected Honors, Awards, and Accomplishments

Travel Grant, Society of Vertebrate Paleontology – Fall 2007
Americorps Education Award - Summer 2002
Various Scholarships (U. of Texas) – 2000-2004

Published Articles

Reinholt, L.E., Burrows, A.M., **Eiting, T.P.**, Dumont, E.R., Smith, T.D. In press. Brief Communication: Histology and micro CT as methods for assessment of facial suture patency. *American Journal of Physical Anthropology*.

Wood, A.R., Zelditch, M.L., Rountrey, A.N., **Eiting, T.P.**, Sheets, H.D., Gingerich, P.D. (2007). Multivariate stasis in the dental morphology of the Paleocene-Eocene condylarth *Ectocion*. *Paleobiology* 33(2):248-260.

Eiting, T.P., Smith, G.R. (2007). Miocene Salmon (*Oncorhynchus*) from Western North America: Gill Raker evolution correlated with plankton productivity in the Eastern Pacific. *Palaeogeography, Palaeoclimatology, Palaeoecology* 249(3/4):412-424.

Rowe, T., **Eiting, T.**, Macrini, T., Ketcham, R. (2005). Organization of the olfactory and respiratory skeleton in the nose of the gray short-tailed opossum *Monodelphis domestica*. *Journal of Mammalian Evolution* 12(3/4):303-336.

Manuscripts in Review

Eiting, T.P., Dumont, E.R. In review. Olfactory communication and echolocation in bats. *Journal of Zoology* (London).

Eiting, T.P., Gunnell, G.F. In review. Global completeness of the bat fossil record. *Journal of Mammalian Evolution*.

Conference Presentations

Eiting, T.P., and Dumont, E.R. (2009). A Comparative Analysis of Olfactory Communication in Bats. Abstracts for the 2009 Society of Integrative and Comparative Biology Annual Meeting, Boston, MA.

Eiting, T., and Gunnell, G. (2008). Global Completeness of the Bat Fossil Record. Abstracts for the 38th North American Symposium on Bat Research, Scranton, PA.

Eiting, T., and Gunnell, G. (2007). Regional and Global Perspectives on the Quality of the Fossil Record of Bats. *Journal of Vertebrate Paleontology (JVP)* 27: suppl. to no. 3:71A.

Gunnell, G., **Eiting, T.**, Simons, E., and Seiffert, E. (2007). Back to the Future – African Vespertilionoidea (Chiroptera) and the Antiquity of Myotinae. *JVP* 27: suppl. to no. 3:85A.

Eiting, T., Geraads, D., and Gunnell, G. (2006). New Late Pliocene bats (Chiroptera) from Ahl al Oughlam, Casablanca, Morocco. *JVP* 26: suppl. to no. 3:58A.

Eiting, T., and Smith, G. (2005). Internal gill raker morphology of fossil Salmonidae using high-resolution X-ray computed tomography. *JVP* 25: suppl. to no. 3:53A.

Wood, A., Desilva, J., **Eiting, T.**, Rountrey, A., Whitlock, J., and Zelditch, M. (2005). Multivariate tests of evolutionary mode in *Ectocion* teeth. *JVP* 25: suppl. to no. 3:132A.

Rowe, T. B., Macrini, T. E., **Eiting, T. P.**, Ketcham, R. A. (2005). The olfactory and respiratory skeleton in the nose of the opossum *Monodelphis domestica*. *Integrative and Comparative Biology* 44 (6):633.

Eiting, T., Rowe, T., Ketcham R. (2004). Quantitative analysis of the mammalian skull: a new method for studying the internal nasal anatomy of *Monodelphis domestica* (Marsupialia: Didelphidae). *JVP* 24: suppl. to no. 3:54A.

Teaching Experience

2009	Teaching Assistant, Biology 522: “Vertebrate Fossils and Evolution” laboratory, University of Massachusetts Amherst
2007	Teaching Assistant, Biology 100: “Introductory Biology” laboratory, University of Massachusetts Amherst
2006	Graduate Student Instructor, Geological Sciences 116: “Introduction to Geology in the Field,” University of Michigan Camp Davis Field Station
2005	Graduate Student Instructor, Geological Sciences 125: “Evolution and Extinction,” University of Michigan

Research Experience

- 2008 Research Assistant, Dr. Betsy Dumont, University of Massachusetts Amherst, Finite Element modeling and Biomes website content
- Summer 2007 Research Assistant, Dr. Betsy Dumont, University of Massachusetts Amherst, Finite Element modeling
- 2007 Research Assistant, Dr. Jerry Smith, University of Michigan, Fish Diversity in North American rivers
- 2005-2006 Museum Assistant, University of Michigan Museum of Paleontology, Invertebrate fossil collection relocation and curation
- Summer 2005 Field paleontology and paleomagnetic sampling; Bighorn Basin, Wyoming
- 2002-2004 Research Assistant, University of Texas X-ray CT facility
- 2002 Student Conservation Association Intern, Carlsbad Caverns Nat'l Park
- 2002 Undergraduate Assistant, Vertebrate Paleontology Lab, U. of Texas
- Winter 2001 Field assistant; Franklin Mountains, El Paso, Texas

Professional Service

Fall 2007: Co-chaired a symposium (with Nancy Simmons, AMNH, and Gregg Gunnell, U. of Michigan), "Fossils, Molecules and Morphology - Evolutionary History of Bats," at the 67th Annual Meeting of the Society of Vertebrate Paleontology in Austin, Texas.