

CURRICULUM VITAE

Michael B. Habib

Center for Functional Anatomy and Evolution
The Johns Hopkins University
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Education

2004-Present, PhD. Candidate in Anatomy; Johns Hopkins School of Medicine. Dissertation Topic: Avian Biomechanics and the Origin and Evolution of Avian Flight
Advisor: David B. Weishampel

2004, MS. in Biology; University of Virginia, Charlottesville, VA. Thesis: Applications and tests of complete species-level phylogenies: Extinction risk and fossil congruence in the Lagomorpha, 65 pp.
Advisor: John L. Gittleman

2001, BA., Biology; University of Virginia, Charlottesville, VA.

Areas of Specialization

Flight Biomechanics
Phylogenetic Comparative Methods
Macroevolutionary analysis

Teaching Experience

Johns Hopkins School of Medicine

2006 Medical Gross Anatomy (Lab Instructor)
2005-2006 Summer Anatomy Institute (Lab Instructor)

University of Virginia

2004 Introductory Biology Laboratory (Lab Instructor)
2004 Summer Biology Laboratory (Lab Instructor)
2002-2004 General Zoology (Lab and Field Instructor)
2002-2003 Biodiversity and Conservation (Teaching Assistant)
2002 Introduction to Ornithology (Teaching Assistant and Field Instructor)

Graduate Advising

Fabian de Kok-Mercado (Art as Applied to Medicine; graduated 2008)
Julia Molnar (Art as Applied to Medicine; current)

Additional Work in Biological Sciences

Department of Herpetology, Baltimore Zoo: 1992-1998
Aviculture, Herpetology, and Invertebrates: National Aquarium in Baltimore: 2001

Research Grants

2007: Jurassic Foundation - \$2,600 "Structural properties in *Archaeopteryx* and the origin of avian flight"
2008: Jurassic Foundation - \$4,000 "Biomechanical contrasts of Cretaceous birds and pterosaurs"

Professional Organizations/Societies

Society of Vertebrate Paleontology
Guild of Natural Science Illustrators

Presentations and Guest Lectures

2006, "Flight performance of giant pseudodontorn birds"; Calvert Marine Museum
2006, "Structural characters of the limbs of raptorial birds"; SVP Annual Meeting
2007, "Structural characteristics of the humerus of *Bennettazhia oregonensis* and their implications for specimen diagnosis and azhdarchoid biomechanics". Flugsaurier: The Wellnhofer Pterosaur Meeting
2008, "Structural Mechanics of Birds and Pterosaurs and Relationships to Flight", Ohio University
2008, "Skeletal architecture and launch mechanics of pterosaurs", SVP Annual Meeting

Papers

Habib M. 2008. Comparative evidence for quadrupedal launch in pterosaurs. Pp 161-168 in Buffetaut E, and DWE Hone, eds. *Wellnhofer Pterosaur Meeting: Zitteliana B28*

Jones KE, Bielby J, Cardillo M ... Habib M (15/24) ... Purvis A. in press. PanTHERIA: A species-level database of life-history, ecology, and geography of extant and recently extinct mammals (Data Paper). *Ecology xxx: xxx-xxx*

Habib, M. and C. B. Ruff. 2008. The effects of locomotion on the structural characteristics of avian limb bones. *Zoo. J. Linn. Soc* **153**: 601-624

Bininda-Emonds, O. R. P., K. E. Jones, S. A. Price, R. Grenyer, M. Cardillo, M. Habib, A. Purvis, and J. L. Gittleman. 2003. Supertrees are a Necessary Not-So-Evil: A Comment on Gatesy et al. *Systematic Biology*. **52**:724-729.

Abstracts

Habib, M. 2008. Skeletal architecture and launch mechanics of pterosaurs. *J. Vert. Paleontol.* 28:87A. (abstract)

Habib, M. 2007. Predicting wing shape and flight dynamics from osteological structures in birds and pterosaurs. *J. Vert. Paleontol.* 27:85A. (abstract)

Habib, M. 2007. Structural characteristics of the humerus of *Bennettazhia oregonensis* and their implications for specimen diagnosis and azhdarchoid biomechanics. Flugsaurier: The Wellnhofer Pterosaur Meeting (abstract)

Habib, M. 2006. Flight performance of giant pseudodontorn birds. The Ecphora Miscellaneous Publications: The Geology and Paleontology of Calvert Cliffs 1:14 (abstract)

Habib, M. 2006. Structural characters of the limbs of raptorial birds can predict characteristics of locomotion and predatory behavior. *J. Vert. Paleontol.* 26:71A. (abstract)

Habib, M., and C. B. Ruff. 2005. Forelimb to hindlimb structural proportions predict locomotor behavior in birds. *J. Vert. Paleontol.* 25:66A. (abstract)

Press Releases/Media Relations

Consultant and interview appearance in: *Dino Body*. Discovery Channel, Produced by Dangerous Productions (ongoing)

Consultant and interview appearance in: *Evolve: Flight*. History Channel, Produced by Optomen.

Press release for presentation at SVP 2008: “How Pterosaurs Took Flight”. Science News. Article by Sid Perkins

Press release for “Comparative evidence for quadrupedal launch in pterosaurs”. Report carried by 112 outlets, including: National Geographic, Science, MSNBC, and a release by the Associated Press.

Illustrations

Cover - *Biological Reviews*. Cambridge. 2005. August Issue

Figures - Rose, K. D. 2006. The postcranial skeleton of early Oligocene *Leptictis* (Mammalia: Leptictida), with a preliminary comparison to *Leptictidium* from the middle Eocene of Messel. *Palaeontographica Abt. A* 278 Lfg. 1-6: 37-56

Figures - Penkrot TA, Zack SP, Rose KD, and Bloch JI. 2008. Postcranial Morphology of *Apheliscus* and *Haplomylus* (Condylarthra, Apheliscidae): Evidence for a Paleocene Holarctic Origin of Macroscelidea. pp 73-106 *In* Mammalian Evolutionary Morphology: A Tribute to Frederick S. Szalay. EJ Sargis & M Dagosto, eds. Springer Press.