

Curriculum Vitae

Alan Hamilton Turner

Division of Paleontology

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EDUCATIONAL AND PROFESSIONAL HISTORY

1. Higher Education

2008 (*expected*) PhD, Earth and Environmental Sciences, Columbia University

2007 MPhil, Earth and Environmental Sciences, Columbia University

2004 MS, Geoscience, University of Iowa

2001 BS, Geology, University of Cincinnati

2. Current Positions

Graduate Student, Division of Paleontology, American Museum of Natural History

Graduate Student, Department of Earth and Environmental Sciences, Columbia University

3. Past Positions

2003-2004 Teaching Assistant, University of Iowa, Department of Biological Sciences

2002-2003 Book Review Editor, Journal of Paleontology

2001-2003 Teaching Assistant, University of Iowa, Department of Geoscience

2001-2003 Assistant, Geological Survey Bureau, Iowa Department of Natural Resources

2000-2001 Student Teaching Assistant, University of Cincinnati

1999-2001 Field Assistant, Cincinnati Museum Center

4. Honors and Awards

2004 A.C. Trowbridge Award for Outstanding Master's Candidate

2001 John L. Rich Award for Outstanding Undergraduate

1998-2001 Katherine and Walter Cook Award

5. Memberships

Geological Society of America
Paleontological Society
Society of Systematic Biologists
Society of Vertebrate Paleontology
Willi Hennig Society

SCHOLARSHIP

1. Publications (refereed)

Monographs

Pol, D., Turner, A.H., and Norell, M.A. In press. Morphology of a new specimen of the Late Cretaceous crocodylomorph *Shamosuchus djadochtaensis* and a discussion of neosuchian phylogeny as related to the origin of Eusuchia. *Bulletin of the American Museum of Natural History*, 231 ms pages, 41 figures.

Turner, A.H. 2006. Osteology and phylogeny of a new species of *Araripesuchus* (Crocodyliformes: Mesoeucrocodylia) from the Late Cretaceous of Madagascar. *Historical Biology*, 18: 255-369.

Journal Articles

Turner, A.H., Smith, N.D., and Callery, J.A. Submitted. Gauging the effects of sampling failure in biogeographic analysis. *Journal of Biogeography*. 53 ms pages, 7 figures, 2 tables.

Turner, A.H. and Buckley, G.A. In press. *Mahajangasuchus insignis* (Crocodyliformes: Mesoeucrocodylia) cranial anatomy and new data on the origin of the eusuchian-style palate. *Journal of Vertebrate Paleontology*, 48 ms pages, 14 figures.

Turner, A.H., Makovicky, P.J., Norell, M.A. 2007. Feather quill knobs in the dinosaur *Velociraptor*. *Science*, 317: 1721.

Turner, A.H., Pol, D., Clarke, J.A., Erickson, G.M., Norell, M.A. 2007. A basal dromaeosaurid and size evolution preceding avian flight. *Science*, 317: 1378-1381.

Irmis, R.B., Nesbitt, S.J., Padian, K., Smith, N.D., Turner, A.H., Woody, D., Downs, A. 2007. A Late Triassic dinosauriform assemblage from New Mexico and the rise of dinosaurs. *Science*, 317: 358-361.

- Turner, A.H., Hwang, S.H., and Norell, M.A. 2007. A small derived theropod from Öösh, Early Cretaceous, Baykhangor Mongolia. *American Museum Novitates*, 3557: 1-27.
- Nesbitt, S.J., Turner, A.H., Erickson, G.M. and Norell, M.A. 2006. Prey choice and cannibalistic behavior in theropod dinosaurs. *Bioletters*, 2: 611-614.
- Norell, M.A., Clark, J.M., Turner, A.H., Makovicky, P.J., Barsbold, R., and Rowe, T. 2006. A new dromaeosaurid theropod from Ukhaa Tolgod (Ömnögov, Mongolia). *American Museum Novitates*, 3545: 1-51.
- Turner, A.H. and Calvo, J.O. 2005. A new sebecosuchian crocodyliform from the Late Cretaceous of Patagonia. *Journal of Vertebrate Paleontology*, 25: 87-98.
- Smith, N.D. and Turner, A.H. 2005. Morphology's role in phylogeny reconstruction: perspectives from paleontology. *Systematic Biology*, 54: 166-173.
- Turner, A.H. 2004. Crocodyliform biogeography during the Cretaceous: evidence of Gondwana vicariance from biogeographical analysis. *Proceedings of the Royal Society of London, B.*, 271: 2003-2009.
- Brett, C.E., Turner, A.H., McLaughlin, P.I., Over, D.J., Storrs, G. and Baird, G.C. 2003. Middle-Upper Devonian (Givetian-Famennian) conodont-bone beds from central Kentucky: reworking events and biostratigraphic condensation in the distal Acadian foreland basin. *Proceedings of 15th Annual Senckenberg Conference. Courier Forschungsinstitut Senckenberg* 242: 125-139.

2. Research Grants

External

- 2006 National Geographic Society, \$13,066.00: *The Late Triassic Hayden Quarry: A window on the pace of early dinosaurian radiations in North America* (Co-PI with K. Padian, S. Nesbitt, R. Irmis, N. Smith, A. Downs, D. Woody)
- 2006 National Science Foundation, Doctoral Dissertation Improvement Grant DEB 0608003, \$12,000.00: *Dromaeosaurid phylogeny, deinonychosaurian monophyly, and the sister group to birds.* (Co-PI w/ M. Norell)
- 2005 Jurassic Foundation, \$2500.00: *Mesozoic dinosaur biogeography: missing data and the effects of sampling biases.*
- 2002 Evolving Earth Foundation Research Grant, \$3000.00: *A new species of Araripesuchus from the Late Cretaceous of Madagascar: Implications for Gondwanan historical biogeography*

- 2002 UISG Student Research Grant, \$500.00
- 2002 Paleontological Society Research Grant, \$500.00
- 2000 AAPG Student Chapter Research Grant, \$500.00

Internal

- 2007 Roosevelt Fund, (AMNH), \$2500.00
- 2003 Littlefield Fund (UI, Department of Geoscience), \$500.00
- 2002 Littlefield Fund (UI, Department of Geoscience), \$2000.00

3. Conference Presentations

Platform

- 2007 The basal-most dromaeosaurid: a new species from Tugrugyin Shireh, Mongolia. Society of Vertebrate Paleontology, Austin, Texas. *Journal of Vertebrate Paleontology*, 27, supp. 3: 161A. (with D. Pol, J. Clarke, M. Norell).
- 2006 New theropod remains from the Early Cretaceous Öösh deposits of Mongolia. 2nd International Palaeontological Congress, Beijing, China. (with S. Hwang and M. Norell).
- 2006 Digesting the *Coelophysis*-cannibal hypothesis and its importance to prey-choice in theropod dinosaurs. Society of Vertebrate Paleontology, Ottawa, Canada. *Journal of Vertebrate Paleontology*, 26, supp. 3: 105A. (with S. Nesbitt [speaker], G. Erickson, M. Norell).
- 2005 Anatomy and relationships of *Shamosuchus djadochtaensis* (Crocodyliformes, Neosuchia) from the Late Cretaceous of Mongolia. Society of Vertebrate Paleontology, Mesa, AZ. *Journal of Vertebrate Paleontology*, 25, supp. 3: 125A. (with D. Pol, M. Norell).
- 2004 A new species of *Araripesuchus* (Crocodyliformes) from the Late Cretaceous of Madagascar. Society of Vertebrate Paleontology, Denver, CO. *Journal of Vertebrate Paleontology*, 24, supp. 3, 123A.
- 2004 Sampling sensitivity and vicariance biogeography: testing the robustness of vicariant signals. Society of Vertebrate Paleontology, Denver, CO. *Journal of Vertebrate Paleontology*, 23, supp. 3: 115A. (with N. Smith [speaker] and J. Callery).
- 2004 Testing the robustness of vicariant signals: implications for paleontology. Evolution

Meetings, Fort Collins, CO. (with N. Smith [speaker] and J. Callery).

- 2003 Crocodyliform biogeography during the mid-late Cretaceous: Implications on the order and timing of Gondwanan break-up. Society of Vertebrate Paleontology, St. Paul, MN. *Journal of Vertebrate Paleontology*, 23, supp. 3: 105A
- 2001 Middle-upper Devonian (givetian-famennian) bone/conodont beds from central Kentucky: reworking and event condensation in the distal acadian foreland basin. Geological Society of America, Boston, MA. *Abstracts with Programs*, 33(4): 31. (with C. Brett, P. McLaughlin, D. Over, G. Storrs)

Poster

- 2006 Resolving dromaeosaurid phylogeny: new information and additions to the tree. Society of Vertebrate Paleontology, Ottawa, Canada. *Journal of Vertebrate Paleontology*, 26, supp. 3: 133A. (with M. Norell, D. Pol, and S. Hwang)
- 2001 Taphonomic and faunal description of a new upper Devonian placoderm bone bed locality from central Kentucky. Society of Vertebrate Paleontology, Bozeman, MT. *Journal of Vertebrate Paleontology*, 21, supp. 3. (with C. Brett, G. Storrs)
- 2001 Biostratigraphy, sedimentology, and taphonomy of upper Devonian (Frasnian to middle Famennian) bone beds from the Ohio shale of central Kentucky. 15th Annual Senckenberg Conference; Mid-Paleozoic Bio- and Geodynamics, The North Gondwana-Laurussia Interactions; Abstracts, p.20; Frankfurt am Main. (with C. Brett [speaker], P. McLaughlin, D. Over, G. Storrs).
- 2000 Sequence and event stratigraphy of the middle-upper Ordovician of northern Kentucky: comparison with new york sequence. Geological Society of America, Reno, NV. *Abstracts with Programs*, 177. (with C. Brett, P. McLaughlin [speaker], S. Taha)

4. Software Developed

- 2005 Callery, J.A., Turner, A.H., and Smith, N.D. PRUNE: A Java-based software for biogeographic analysis.

FIELDWORK

- 2006-present Late and Early Cretaceous. Mongolia
- 2006-present Late Triassic. Chinle Fm, Ghost Ranch New Mexico
- 2005 Late Triassic. Chinle, Moenave, Kayenta Fms of Ward's Terrace, AZ
- 2005 Early Cretaceous. Cloverly Fm of Wyoming and Montana (FMNH)

2004-2005 Late Triassic. North Carolina (AMNH/Columbia University)
2004 Late Triassic/Early Jurassic. Nova Scotia (AMNH/Columbia University)
2000-2002 Late Jurassic. Mother's Day Site, Montana (Cincinnati Museum Center)

SERVICE

1. Museum Exhibit Consultation

2004 *Dinosaurs: Ancient Fossils, New Discoveries*: American Museum of Natural History

2. Educational Program Consultation

2007 *Microraptor Project*, NOVA special, WGBH Boston (producer Mark Davis)

2006 *Dinosaurs Alive! 3D* (IMAX movie)

2006 *Mythic Creatures*, Scholastic, New York, NY (Children's educational supplements)

2005-present Guest lecturer, Seton Hall Graduate Program in Museum Professions

3. Popular Book Consultation

2005 Taber, K. *Dinosaurs*, Scholastic Book Services, New York, NY