

**MARK ALLEN NORELL**  
CURATOR AND DIVISION CHAIR  
DIVISION OF PALEONTOLOGY  
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**HIGHEST DEGREE EARNED**

Ph.D.

**AREA OF SPECIALIZATION**

Evolution of avian dinosaurs

**EDUCATIONAL EXPERIENCE**

Ph.D. in Biology, Yale University, 1988

M.Phil. Yale University, 1986

M.S. in Biology, San Diego State University, 1983

B.S. in Zoology, California State University, Long Beach, 1980

**PREVIOUS EXPERIENCE IN DOCTORAL EDUCATION**

FACULTY APPOINTMENTS

Adjunct Associate Professor, Department of Biology, Yale University, 1995-1999

Adjunct Assistant Professor, Department of Biology, Yale University, 1991-1995

Lecturer, Department of Biology, Yale University, 1989

COURSES TAUGHT

*Guest Lecturer*- CUNY, Paleobiological methods, 2 lectures, 1994

Yale University, Evolutionary Biology, 6 lectures, 1995

Columbia University, Dinosaur Biology, 4 lectures, 1996

GRADUATE COMMITTEES

Sterling Nesbitt, Columbia University, 2004-present

Alan Turner, Columbia University, chair, 2004-present

Daniel Ksepka, Columbia University, chair, 2002- present

Sunny Hwang, Columbia University, chair, 2000-present

Jun Liu, Columbia University, 2000-present

GRADUATE ADVISEES

Alan Turner, Columbia University, Ph.D. candidate, 2004-present

Sterling Nesbitt, Columbia University, Ph.D. candidate, 2004-present

Daniel Ksepka, Columbia University, Ph.D. candidate, 2002- present

Sunny Hwang, Columbia University, Ph.D. candidate, 2000-present

Matthew Mhlbacher, Columbia University, Ph.D. candidate, 2001-2004

Diego Pol, Columbia University, 1999-2004

Xu Xing, IVPP, 2000-2002

Peter Makovicky, Columbia University, 1996-2001

Dan Chure, Columbia University, 1995-1999

Alexander Kellner, Columbia University, 1996

## RESEARCH GRANT SUPPORT

- National Science Foundation, “Collaborative Research: Life History Strategies, Growth Rates, and Microstructural Character Evolution Across the Coelurosaurian/Avialan Transition,” \$72,488, August 15, 2002 – July 31, 2006
- National Science Foundation, “Collaborative Research: ATOL: Archosaur Phylogeny -- a Total Evidence Approach at Fine Taxonomic Levels” (co-PI with G. Barrowclough and J. Cracraft), \$1,733,737, October 1, 2002 – September 30, 2007

## RECENT ARTICLES IN REFEREED JOURNALS

- Joyce, W.G., and M.A. Norell. (In press). *Zangerelia.anomaloplastron*, n. sp., a nanhsiungchelyid turtle from the Late Cretaceous of Ukhaa Tolgod, Mongolia. *Novitates*
- Clarke, J.A., M.A. Norell, and D. Dashzeveg. (In press). New avian remains from the Eocene of Mongolia and the phylogenetic position of the Eogruidae (Aves, Gruoidea). *Novitates*
- Dingus, L., and M.A. Norell. 2007. The Bone Collector. *Discover*, March: 38--43.
- Turner, A.H.\*, S.H. Hwang, M.A. Norell. 2007. A small derived theropod from Öösh, Early Cretaceous, Baykhangor Mongolia. *American Museum Novitates* 3557: 1--27. (Sponsor Mark Norell)
- Conrad, J.L. and M.A. Norell. 2006. High-resolution x-ray computed tomography of an Early Cretaceous gekkonomorph (Squamata) from Oosh (Ovorkhangai; Mongolia). *Historical Biology PrEview*, online publication date May 18.
- Ksepka, D.T.\* and M.A. Norell. 2006. *Erketu ellisoni*, a long-necked sauropod from Bor Guve, (Dornogov Aimag, Mongolia). *American Museum Novitates* 3508: 1-16. (Sponsor: Mark Norell)
- Makovicky, P. J., and M. Norell. 2006. *Yamaceratops dornogobiensis*, A New Primitive Ceratopsian (Dinosauria: Ornithischia) from the Cretaceous of Mongolia. *Amer. Mus. Nat. Hist. Novitates* 3530:42 pp.
- Nesbitt, S.J.\* and Norell, M.A. 2006. Extreme convergence in the body plans of an early suchian (Archosauria) and ornithomimid dinosaurs (Theropoda). *Proceedings of Royal Society of London B*, 273:1045-1048. (Sponsor: Mark Norell)
- Nesbitt, S.J.\*, Turner, A.H.\*, Erickson, G.M. and Norell, M.A. 2006. Prey choice and cannibalistic behavior in theropod dinosaurs. *Proceedings of the Royal Society B* 273: 1045-1048. (Sponsor: Mark Norell)
- Norell, M.A., J.A. Clark, A.H. Turner\*, P.J. Makovicky, R. Barsbold, and T. Rowe. 2006. A New Dromaeosaurid Theropod from Ukhaa Tolgod (Ömnögov, Mongolia). *American Museum Novitates*, 3545: 1--51. (Sponsor Mark Norell)
- Pol, D., and M.A. Norell. 2006. Uncertainty in the age of fossils and the stratigraphic fit to phylogenies. *Systematic Zoology* 55(3):512--521.
- Xu, X., and M.A. Norell. 2006. Non-Avian dinosaur fossils from the Lower Cretaceous Jehol Group of western Liaoning, China. *Geological Journal* 41: 419--437.
- Andres, B., and M.A. Norell. 2005. The first record of a pterosaur from the Lower Cretaceous sediments of Öösh (Omnogov: Mongolia). *Novitates* 3472: 1-6.
- Dyke, G.J., and M.A. Norell. 2005. The Hind Limb Proportions of *Caudipteryx* – Flightless Bird or Feathered Dinosaur? *Paleontologica Polonica* 50(1): 101-116.
- Ksepka, D., K.-Q. Gao and M.A. Norell. 2005. A new choristodere from the Cretaceous of Mongolia. *Novitates* 3468: 1-22.

- Norell, M.A. and X. Xu. 2005. Feathered dinosaurs. *Annual reviews of Earth and Planetary Sciences* 33: 8.1-8.23
- Turner, A.H.,\* M.A. Norell, and D. Pol. 2005. Anatomy and relationships of *Shamosuchus djadocthaensis* (Crocodyliformes, Neosuchia) from the Late Cretaceous of Mongolia. *Journal of Vertebrate Paleontology* 25(3): 125A. (Sponsor: M. Norell)
- Clarke, J.A., and M.A. Norell. 2004. New avialan remains and a review of the known avifauna from the late Cretaceous Nemegt Formation of Mongolia. *Novitates* 3447:1-12.
- Erickson, G.M., P.J. Makovicky, P.J. Currie, M.A. Norell, S. Yerby, and C.A. Brochu. 2004. Gigantism and comparative life-history parameters of tyrannosaurid dinosaurs. *Nature* 430: 772-775.
- Hwang, S., M.A. Norell, Q. Ji, and K.-Q. Gao. 2004. A large compsognathid from the Early Cretaceous Yixian Formation of China. *Journal of Systematic Palaeontology* 2(1):13-30.
- Ji, Q., M.A. Norell, P.J. Makovicky, K.-Q. Gao, S.-A. Ji, and C. Yuan. 2004. An early ostrich dinosaur and implications for ornithomimosaur phylogeny. *Novitates* 3420:1-19.
- Ksepka, D., M.A. Norell. 2004. Ornithomimosaur cranial material from Ukhaa Tolgod (Omnogov, Mongolia). *Novitates* 3448:1-4.
- Norell, M. and S. Hwang, 2004. A troodontid dinosaur from Ukhaa Tolgod (Late Cretaceous Mongolia). *Novitates* 3446:1-9.
- Pol, D. and M.A. Norell. 2004. A new crocodyliform from Zos Canyon, Mongolia. *Novitates* 3445:1-36.
- Pol, D., M.A. Norell, and M.E. Siddall. 2004. Measures of stratigraphic fit to phylogeny and their sensitivity to tree size, tree shape and scale. *Cladistics* 20(2004)64-75.
- Pol, D., and M.A. Norell. 2004. A new gobiosuchid crocodyliform taxon from the Cretaceous of Mongolia. *Novitates* 3458: 1-31.
- Xu, X. and M.A. Norell. 2004. Basal tyrannosauroids from China and evidence for protofeathers in tyrannosauroids. *Nature* 431:680-684.
- Xu, X. and M.A. Norell. 2004. A new troodontid dinosaur with avian-like sleeping-posture from China. *Nature* 431:838-841.
- Gatesy, J., G. Amato, M. Norell, R. DeSalle, and C. Hayashi. 2003. Combined support for wholesale taxic atavism in gavialine crocodylians. *Systematic Biology* 52(3):403-422.
- Hill, R.A., L.M. Witmer, M.A. Norell. 2003. A new specimen of *Pinacosaurus grangeri* (Dinosauria: Ornithischia) from the Late Cretaceous of Mongolia: ontogeny and phylogeny of ankylosaurs. *Novitates* 3395: 1-29.
- Makovicky, P.J., M.A. Norell, J.M. Clark, and T. Rowe. 2003. Osteology of *Byronosaurus jaffei* (Theropoda: Troodontidae). *Novitates* 3402:1-21. <http://www.bioone.org/bioone/?request=get-toc&iissn=0003-0082&volume=402>
- Norell, M.A., and W. Wheeler. 2003. Missing Element Replacement Data analysis: a randomization approach to understanding the effects of missing data. *Journal of Vertebrate Paleontology* 23(2)275-283.
- Clark, J.M., M.A. Norell, and T. Rowe. 2002. Cranial anatomy of *Citipati osmolskae* (Theropoda, Oviraptorosauria, and a reinterpretation of the *Oviraptor philoceratops* holotype. *American Museum Novitates* 3364:1-24.
- Clarke, J.A., and M.A. Norell. 2002. The morphology and phylogenetic position of *Apsaravis ukhaana* from the Late Cretaceous of Mongolia. *Novitates* 3387:1-46.

- Flynn, J.J., M.J. Novacek, H. Dodson, D. Frassinetti, M.C. McKenna, M.A. Norell, K.A. Sears, C.C. Swisher III, and A.R. Wyss. 2002. A new fossil mammal assemblage from the southern Chilean Andes: Implications for geology, geochronology, and tectonics. *Journal of South American Earth Sciences* 15(3):285-302.
- Grellet-Tinner, G. and M.A. Norell. 2002. An egg from the Campanian of Bayn Dzak, Mongolia, and its avian affinities. *Journal of Vertebrate Paleontology* 22(3):719-721.
- Hwang, S., M.A. Norell, Q. Ji, and K.-Q. Gao. 2002. New specimens of *Microraptor zhaoianus*. *Novitates* 3381:1-44. <http://www.bioone.org/bioone/?request=get-toc&issn=0003-0082&volume=381>
- Norell, M., Q. Ji, K.-Q. Gao, C. Yuan, Y. Zhao and L. Wang. 2002. Modern feathers on a nonavian dinosaur. *Nature* 416:36-37. <http://www.nature.com>
- Xu, X., M.A. Norell, X.-L. Wang, P.J. Makovicky, and X.-C. Wu. 2002. A basal troodontid from the early Cretaceous of China. *Nature* 415:780-784. <http://www.nature.com>
- Xu, X., P.J. Makovicky, X.-L. Wang, M.A. Norell, and H.-L. You. 2002. A new ceratopsian dinosaur from the Lower Cretaceous of China: implications for the early evolution of Ceratopsia. *Nature* 416:314-317. <http://www.nature.com>
- Chiappe, L.M., M.A. Norell, and J.M. Clark. 2001. A new skull of *Gobipteryx minuta* (Aves: Enantiornithes) from the Cretaceous of the Gobi Desert. *American Museum of Natural History Novitates* 3346:1-15.
- Clark, J.M., M.A. Norell, and R. Barsbold. 2001. Two new oviraptorids (Theropoda: Oviraptorosauria) Upper Cretaceous Djadokhta Formation, Ukhaa Tolgod, Mongolia. *Journal of Vertebrate Paleontology* 21(2) ;209-213.
- Clarke, J. and M.A. Norell. 2001. Palaeoecology (Communication arising): Fossils and avian evolution. *Nature* 414:508.
- Ji, Q., Mark A. Norell, K.-Q. Gao, S.-A. Ji, and D. Ren. 2001. The distribution of integumentary structures in a feathered dinosaur. *Nature* 410: 1084-1088. <http://www.nature.com>
- Norell, M.A., J.M. Clark, and P.J. Makovicky. 2001. Relationships among Maniraptora: problems and prospects. pgs. 49-67 in Jacques Gauthier and Lawrence F. Gall, editors. *New perspectives on the origin and early evolution of birds : proceedings of the international symposium in honor of John H. Ostrom; 1999 Feb 12–14; New Haven, CT. New Haven: Peabody Museum of Natural History., Yale Univ.*
- Norell, M.A., J.M. Clark, and L.M. Chiappe. 2001. An Embryo of an Oviraptorid (Dinosauria: Theropoda) from the Late Cretaceous of Ukhaa Tolgod, Mongolia. *American Museum of Natural History Novitates* 3315:1-17.
- Norell, M.A., and J. Clarke. 2001. A new fossil near the base of Aves. *Nature* 409:181-184. <http://www.nature.com>
- Norell, M.A., P.J. Makovicky, and P.J. Currie. 2001. The beaks of dinosaurs. *Nature* 412:873-874. <http://www.nature.com>
- Pol, D. and M.A. Norell. 2001. Comments on the Manhattan Stratigraphic Record. *Cladistics* 17:285-289. <http://www.idealibrary.com/links/toc/clad/17/3/0>

#### **SPECIAL RECOGNITION/AWARDS**

Scientific American top science stories of 2001 for 'feathered dinosaur'

Science News top ten stories of 2001 for the ornithomimid beak

American Library Association's "The Best of the Best from the University Presses: Books You Should Know About." Award. Summer 2001. For "*Discovering Dinosaurs*"

Distinguished Alumnus, College of Natural Sciences and Mathematics. California State University, Long Beach. May 2000  
National Council of Teachers of English- Orbis Pictus Award Committee noteworthy title 2000- for *A Nest of Dinosaurs*  
Macy's Leader of New York City for 1998  
American Bookseller "Pick of the Lists for 1996" for *Velociraptor*  
Scientific American Young Readers Book Award of 1995 for *Discovering Dinosaurs*  
Listed in "American Men and Women of Science" 1995-present  
Time Magazine Top Ten Science Stories of the Year 1994 and 1996  
Honorary member The New York Paleontological Society 1994  
Discover Magazine Top 75 Science Stories of 1993, 1994, 1996, 1998, 2001  
Listed in "Who's Who in America" 1995-present  
Dinosaur Society Award for one of the top ten books of 1993 for *Triceratops*  
Listed in "Who's Who in Science and Engineering", 1993-present  
John Spanger Nicholas Prize for best thesis, Yale University, 1988  
Yale University Miles Fellowship, 1987  
Yale University John Enders Fellowship, 1987  
Society of Vertebrate Paleontology Romer Prize for best student paper, 1987  
Sigma Xi, Grant in Aid of Research, 1985  
American Museum Graduate Study Program, 1985  
Yale University Graduate Fellowship, 1983, 1984, 1985, 1986