

JOHN J. FLYNN
FRICK CURATOR AND PROFESSOR, DIVISION OF PALEONTOLOGY
DEAN, RICHARD GILDER GRADUATE SCHOOL

HIGHEST DEGREE EARNED

Ph.D.

AREA OF SPECIALIZATION

Evolution of mammals and Mesozoic vertebrates, Carnivora systematics, geological dating, plate tectonics, and biogeography

EDUCATIONAL EXPERIENCE

Ph.D. in Geological Sciences, Columbia University, 1983

M. Phil. in Geological Sciences, Columbia University, 1980

M.A. in Geological Sciences, Columbia University, 1979

B.S. in Geology and Geophysics, Yale University, 1977, cum laude

PREVIOUS EXPERIENCE IN DOCTORAL EDUCATION

FACULTY APPOINTMENTS

Adjunct Professor, Department of Biology, City University of New York, 2005-present

Adjunct Professor, Department of Earth and Environmental Sciences, Columbia University, 2005-present

Visiting Professor, Universidad de Chile, July 2001-July 2002

Adjunct Professor, Department of Biological Studies (Ecology and Evolution program), 1995-2005

Assistant Professor, Department of Geological Sciences, Rutgers University, September 1982-December 1987

Lecturer, Department of Geology and Geophysics, Yale University, January-May 1982

COURSES TAUGHT

"Grantsmanship, Ethics, and Communication" (core course), Richard Gilder Graduate School (AMNH), Fall 2008. Instructors: M. Norell and J. Flynn.

Vertebrate Paleontology-Evolution Seminar (Earth & Environmental Sciences G9668), *"Topics in Vertebrate Evolution: Methods and Case Studies"*, Columbia University, Autumn 2005.

Seminar in vertebrate paleontology (Sect 1; Earth & Environmental Sciences G9668y), *"The Origins of Major Vertebrate Clades"*, Columbia University, Spring 2006.

Seminar in vertebrate paleontology (Sect 2; Earth & Environmental Sciences G9668y), *"A Total Evidence Approach to Lizard Phylogeny"*, Columbia University, Spring 2006. Instructors: M. Norell and J. Flynn.

Directed Readings Course (for M. Spaulding, Earth and Environmental Sciences G9001), *"Placental Mammal Intensive Reading Course"* (Analysis of synthesis volume edited by Rose and Archibald), Columbia University, Spring 2006.

Directed Readings Course (for J. Finarelli), "*Rates of evolution in Mammalia*", University of Chicago, 2003.

Workshop and Mini-Course, "Vertebrate Paleontology and Evolution", Universidad de Chile, 29 April- 2 May 2002.

Directed Readings Course (for P. Anderson), "*Triassic vertebrate evolution, and the Triassic/Jurassic boundary*", University of Chicago, 2002.

Directed Readings Course (for A. Goswami and C.T. Stayton), "*Topics in synapsid evolution*", University of Chicago, 2001.

Directed Readings Course (for A. Goswami), "*Topics in mammalian evolution*", University of Chicago, 2001.

"*Evolution: Genes to Groups*" (BioSci 192 or 264 or 23270; University of Chicago, with Bill Ballard [1999, 2000] or Paul Goldstein [2002], Spring 1999 [majors, core curriculum], Fall 2000, 2002 [majors, elective]).

Directed Readings Course (for K. Sears), "*Topics in mammalian evolution*", University of Chicago, 1999-2000.

Lecturer/Workshop Leader, Divisional Course on "*Scientific Integrity and Ethical Conduct of Research*", for all first year graduate students in the Biological Sciences, University of Chicago, Spring 1998-2001, 2003-2004.

"*Genes, Individuals, Populations, and Groups*" (NatSci), University of Chicago, Spring 1998.

"*Biological Evolution*" (NatSci 104), University of Chicago, Fall 1996

Seminar on Sedimentary Basins of the Americas" (co-taught with Susan Kidwell), University of Chicago, Spring 1995.

"*Grants, Ethics, and Professional Issues*" (EvBio 401 or 40100; team taught with Jeanne Altmann, Mathew Leibold and/or Joy Bergelson), University of Chicago, Fall 1995-2000, 2002-2003.

"*Mammalian Evolution*" (BioSci 260 or 23260/EvBio 31100, 311 or 411), advanced undergraduate/graduate course with laboratory, University of Chicago, Fall 1991, 1993, 1995, 1997, 2000, 2003.

"*Plant and Animal Natural History*"/"*Diversity of Life Through Time*" (BioSci 153 or 157), introductory science core course, taught (with P. Crane [1990], S. Lidgard [1993], G. Mueller [1995]) two sections, University of Chicago, Spring.

Directed Readings Course (for S. Bacon), "*Mammalian Evolution*", University of Chicago, 1990.

Directed Readings Courses (for J. Cushing), focusing on mammalian evolution and interdisciplinary studies of paleontology, tectonics, stratigraphy, paleoclimate, paleoenvironment, etc., University of Chicago.

Directed Readings Course (for S.K. Lyons), "*The Great American Biotic Interchange*," University of Chicago.

Directed Readings Course (for M. Hamrick), "*Mammalian Evolution*", Northwestern University, 1992.

Rutgers University, 1982-1988

Mesozoic-Cenozoic stratigraphy

Studies in Paleontology

Geology and Geohydrology of New Jersey (short course)

GRADUATE ADVISEES

Ph.D. Students:

Kaori Tsukui, Columbia University, 2008-present
Michelle Spaulding, 2005-present
Andrés Giallombardo, Columbia University, 2004-present
Lovasoa Ranivoharimanana, University of Antananarivo, Madagascar, 1998-2007
Anjali Goswami, University of Chicago, 2001- 2005
John Finarelli, University of Chicago, 2002-2005
Jon Marcot, University of Chicago, 1999- 2003
Karen Sears, University of Chicago, 1999- 2003
Gina Wesley, University of Chicago, 1998- 2003
Darin Croft, University of Chicago, 1996- 2000
Doreen Covey, University of Illinois-Chicago, 1993- 2000
Gregory Buckley, Rutgers University, 1986-1994
William Stevens, University of Chicago, 1988- 1994
Javier Guerrero-Diaz, Duke University, 1990-1993

M.S. Students:

Pamela Austin, University of Illinois-Chicago, 1991-1998
K.A. Suydam, Rutgers University, 1988
Robert Cipolletti, Rutgers University, 1986

GRADUATE COMMITTEES

Ph.D. Students:

Sterling Nesbitt, September 2006-present
Amy Balanoff, Columbia University, 2006-present.
Alan Turner, Columbia University, 2004-2008
Sunny Hwang, Columbia University, 2005-2007
Aaron Hogue, Northwestern University, 2002-2004
Mahesh Gurung, University of Illinois- Chicago, 1998- 2004
Link Olson, University of Chicago, 1995-1999
Francesca Smith, University of Chicago, 1994- 2002
Janet Cushing, University of Chicago, 1994-1996
John Alroy, University of Chicago, 1990- 1994
Timothy Gaudin, University of Chicago, 1989- 1993
Alan Melillo, Rutgers University, 1985
Paul Sikora, Rutgers University, 1988
Robert Starcher, Rutgers University, 1987
Margery Zeff, Rutgers University, 1987

M.S. Students:

Francesca Smith, University of Chicago, 1994-1996
Brenda Ekwurzel, Rutgers University, 1987
Peter VonSchondorf, Rutgers University
Christopher Jesinkey, Rutgers University, 1986
Ross Dimmick, Rutgers University, 1986
J. Mitchell, Rutgers University, 1985
Andrew Warne, Rutgers University, 1985

T. Toskos, Rutgers University, 1984

RESEARCH GRANT SUPPORT (2003-2008)

- National Science Foundation, ATOL (“Assembling the Tree of Life”) program, Sept 2006. “ATOL: Collaborative Research: Resolving Mammalian Phylogeny with Genomic and Morphological Approaches” \$2,998,841 (co-I), 2006-present
- National Science Foundation, Sept 2006. “A Complete Species Level Phylogeny of the Carnivora” \$158,132 (to AMNH), 2006-2009
- National Science Foundation, June 2006. “Collaborative Research: The Paleontology Portal” \$52,560 (to AMNH), 2006-2009
- National Science Foundation, May 2003. “Dissertation Research: The evolution of morphological integration in the mammalian skull.” \$11,636 (For dissertation research of A. Goswami), 2003-2005
- National Science Foundation, “Collaborative Research: Andean Fossil Mammals—Phylogenetic and Geologic Implications” \$232,623, 2004 – 2008

RECENT ARTICLES IN REFEREED JOURNALS (2003-2008)

- Croft, D.A., J.J. Flynn, and A.R. Wyss. 2008. The Tinguiririca Fauna of Chile and the early stages of “modernization” of South American mammal faunas. *Arquivos do Museu Nacional, Rio de Janeiro (Brasil)*, v.66, n.1, 21 pp. (Jan/Mar 2008; ISSN 0365-4508).
- Flynn, J.J., R. Charrier, D.A. Croft, P.B. Gans, T.M. Herriott, J.A. Wertheim, and A.R. Wyss. 2008. Chronologic implications of new Miocene mammals from the Cura-Mallín and Trapa Trapa Formations, Laguna del Laja area, south central Chile. *Journal of South American Earth Sciences*.
([doi:10.1016/j.jsames.2008.05.006](https://doi.org/10.1016/j.jsames.2008.05.006))
- Kammerer, C., J.J. Flynn, L. Ranivoharimanana, and A.R. Wyss. 2008. New material of *Menadon besairiei* (Cynodontia: Traversodontidae) from the Triassic of Madagascar. *Journal of Vertebrate Paleontology*, v. 28, no. 2, p. 445-462.
- Sears, K.A., J.A. Finarelli, J.J. Flynn, and A.R. Wyss. 2008. Estimating body mass in New World “monkeys” (Platyrrhini, Primates), with a consideration of the Miocene platyrrhine *Chilecebus carrascoensis*. *American Museum Novitates*, no. 3617, p. 1-29.
- Shockey, B.J., and J.J. Flynn. 2008. Morphological diversity in the postcranial skeleton of Casamayoran (?middle to late Eocene) Notoungulata and foot posture in notoungulates. *American Museum Novitates*, no. 3601, p. 1-26.
- Croft, D.A., J.J. Flynn, and A.R. Wyss. 2007. A new basal glyptodontid and other Xenarthra of the early Miocene Chucal Fauna, northern Chile. *Journal of Vertebrate Paleontology*, v. 27, no. 4, p. 781-797 (17 pp.; chosen by the editors as the “Featured Article” of the December issue, with a color illustration on the cover).
- Finarelli, J.A., and J.J. Flynn. 2007. The evolution of encephalization in caniform carnivorans. *Evolution*, v. 61(7), p. 1758-1772 (doi:10.1111/j.1558-5646.2007.00131.x)
- Flynn, J.J., A.R. Wyss, and R. Charrier. 2007. South America’s Missing Mammals. *Scientific American*, May 2007: 68--75. Supplementary material online at:

<http://www.sciam.com/article.cfm?chanID=sa004&articleID=F83DEB7F-E7F2-99DF-3788D419B06C7E1D>

- Sears, K.E., A. Goswami, J.J. Flynn, and L.A. Niswander. 2007. The correlated evolution of Runx2 tandem repeats, transcriptional activity, and facial length in Carnivora. *Evolution and Development*, v. 9, no. 6, p. 555-565.
- Antoine, P.-O., D. De Franceschi, J.J. Flynn, A. Nel, P. Baby, M. Benammi, Y. Calderón, N. Espurt, A. Goswami, and R. Salas. 2006. Western Amazonian Miocene amber with multiple organic inclusions. *Proceedings of the National Academy of Sciences USA* 103(37): 13595--13600.
- Burmeister, K.C., J.J. Flynn, J.M. Parrish, and A.R. Wyss. 2006. Paleogeographic and biostratigraphic implications of new early Mesozoic terrestrial vertebrate fossils from Poamay, central Morondava Basin, Madagascar. *In* J.D. Harris, S.G. Lucas, J.A. Spielmann, M.G. Lockley, A.R.C. Milner, and J.I. Kirkland (editors), *Bulletin of the New Mexico Museum of Natural History* 37 (special volume: The Triassic-Jurassic Terrestrial Transition): 457--475.
- Croft, D.A., L.R. Heaney, J.J. Flynn, and A.P. Bautista. 2006. A new extinct, diminutive *Bubalus* (Artiodactyla: Bovidae: Bovini) from Cebu Island, Philippines. *Journal of Mammalogy* 87(5): 1037--1051.
- Finarelli, J. A. and J.J. Flynn. 2006. Ancestral state reconstruction of body size in the Caniformia (Carnivora, Mammalia): The effects of incorporating data from the fossil record. *Systematic Biology*, v. 55, no. 2, p. 301-313.
- Flynn, J.J., S. Fox, J.M. Parrish, L. Ranivoharimana, and A.R. Wyss. 2006. Assessing diversity and paleoecology of a Middle Jurassic microvertebrate assemblage from Madagascar. *In* J.D. Harris, S.G. Lucas, J.A. Spielmann, M.G. Lockley, A.R.C. Milner, and J.I. Kirkland (editors), *Bulletin of the New Mexico Museum of Natural History* 37 (special volume: The Triassic-Jurassic Terrestrial Transition): 476--489.
- Hitz, R.H., J.J. Flynn, and A.R. Wyss. 2006. New basal Interatheriidae (Tyotheria, Notoungulata, Mammalia) from the Paleogene of central Chile. *American Museum Novitates* 3520: 1--32.
- Krause, D.W., P.M. O'Connor, A.H. Rasoamiramanana, G.A. Buckley, D. Burney, M.T. Carrano, P.S. Chatrath, J.J. Flynn, C.A. Forster, L.R. Godfrey, W.L. Jungers, R.R. Rogers, K.E. Samonds, E.L. Simons, and A.R. Wyss. 2006. Preserving Madagascar's natural heritage: The importance of keeping the island's vertebrate fossils in the public domain. *Madagascar Conservation & Development* 1(1): 43--47.
- McKenna, M.C., A.R. Wyss, and J.J. Flynn. 2006. Paleogene pseudoglyptodont xenarthrans from central Chile and Argentine Patagonia. *American Museum Novitates* 3536: 1--18.
- Charrier, R., A.N. Chávez, S. Elgueta, G. Hérail, J.J. Flynn, D.A. Croft, A.R. Wyss, and M. García. 2005. Rapid tectonic and paleogeographic basin evolution associated with the development of the Chucal anticline and the Chucal-Lauca Basin in the Altiplano of Arica, northern Chile. *Journal of South American Earth Sciences* (Special volume on *Cenozoic Andean Basin Evolution*, 5th ISAG), v. 19, p. 35-54.
- Charrier, R., M. Bustamante, D. Comte, S. Elgueta, J.J. Flynn, N. Iturra, N. Muñoz, M. Pardo, R. Thiele, and A.R. Wyss. 2005. The Abanico extensional basin: Regional

- extension, chronology of tectonic inversion, and relation to shallow seismic activity and Andean uplift. *Neues Jahrbuch für Geologie und Paläontologie*, Abh. 236 (1-2): 43-77 (May 2005).
- Flynn, J.J., D.A. Croft, R. Charrier, A.R. Wyss, G. Hérail, and M. García. 2005. New Mesotheriidae (Mammalia, Notoungulata, Typotheria), geochronology, and tectonics of the Caragua Area, northernmost Chile. *Journal of South American Earth Sciences* (Special volume, 5th ISAG), v. 19, p. 55-74.
- Flynn, J.J., J.A. Finarelli, S.M. Zehr, J. Hsu, and M.A. Nedbal. 2005. Molecular phylogeny of the Carnivora (Mammalia): Assessing the impact of increased sampling on resolving enigmatic relationships. *Systematic Biology*, v. 54, no. 2, p. 1-21.
- Flynn, J.J., B.J. Kowallis, C. Nuñez, O. Carranza-Castañeda, W.E. Miller, C.C. Swisher III, and E. Lindsay. 2005. Geochronology of Hemphillian-Blancan aged strata, Guanajuato, Mexico, and implications for timing of the Great American Biotic Interchange. *Journal of Geology*, v. 113, no. 3, p. 287-307.
- Flynn, J.J. and G.D. Wesley-Hunt. Carnivora. pp. 175-198. 2005. In *The Rise of Placental Mammals: Origins and Relationships of the Major Extant Clades*, D. Archibald and K. Rose (eds.). Johns Hopkins University Press, Baltimore (published 3/18/05).
- Goswami, A., J.J. Flynn, L. Ranivoharimanana, and A.R. Wyss. 2005. Dental microwear in Triassic amniotes: Implications for paleoecology and masticatory mechanics. *Journal of Vertebrate Paleontology*, v. 25, no. 2, p. 320-329.
- Wesley-Hunt, G.D. and J.J. Flynn. 2005. Phylogeny of the Carnivora: Basal relationships among the carnivoramorphans, and assessment of the position of "Miacoida" relative to crown-clade Carnivora. *Journal of Systematic Palaeontology*, vol. 3, no. 1, p. 1-28.
- Croft, D.A., J.J. Flynn, and A.R. Wyss. 2004. Notoungulata and Litopterna from the Early Miocene Chucal Fauna, Northern Chile. *Fieldiana (Geology)*, N.S., no. 50 (publication 1528), p. 1-52 (plus i-iv).
- Flynn, J.J. and A.R. Wyss. 2004. A polydolopine marsupial skull from the Cachapoal Valley, Andean Main Range, Chile. *Bulletin of the American Museum of Natural History* ("Tributes to Malcolm C. McKenna: His students, his legacy" [Festschrift], edited by G. Gould and S.K. Bell, Chap. 6), v. 285, p. 80-92.
- Croft, D.A., J.P. Radic, E. Zurita, R. Charrier, J.J. Flynn, and A.R. Wyss. 2003. A Miocene toxodontid (Mammalia: Notoungulata) from the sedimentary series of the Cura-Mallín Formation, Lonquimay, Chile. *Revista Geologica de Chile*, vol. 30, no. 2, p. 285-298.
- Croft, D.A., M. Bond, J.J. Flynn, M. Reguero, and A.R. Wyss. 2003. Large archaeohyracids (Typotheria, Notoungulata) from central Chile and Patagonia, including a revision of *Archaeotypotherium*. *Fieldiana (Geology)*, N.S., no. 49, p. 1-38 (plus pages i-v).
- Flynn, J.J., A.R. Wyss, D.A. Croft, and R. Charrier. 2003. The Tinguiririca Fauna, Chile: Biochronology, paleoecology, biogeography, and a new earliest Oligocene South American Land Mammal "Age". *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 195, no. 3/4, p. 229-259.

- Reguero, M., D.A. Croft, J.J. Flynn, and A.R. Wyss. 2003. Small archaeohyracids (Tyotheria, Notoungulata) from Chubut Province, Argentina, and Central Chile: Implications for trans-Andean temporal correlation. *Fieldiana (Geology)*, N.S., no. 48, p. 1-17 (plus pages i-iii, and endpiece illustration).
- Wesley, G.D. and J. J. Flynn. 2003. A revision of *Tapocyon* (Carnivoramorpha), including analysis of the first cranial specimens and identification of a new species. *Journal of Paleontology*, v. 77, no. 4, p. 769-783.
- Yoder, A.D., M.M. Burns, S. Zehr, T. Delefosse, G. Veron, S.M. Goodman, and J.J. Flynn. 2003. Single origin of Malagasy Carnivora from an African ancestor. *Nature*, v. 421, p. 734-737.

SPECIAL RECOGNITION/AWARDS

- Joseph T. Gregory Award, Society of Vertebrate Paleontology, honoring outstanding service to the welfare of the Society of Vertebrate Paleontology, 20 October 2007.
- Premio "Roberto Araya" (Roberto Araya Prize), Sociedad Geológica de Chile, awarded 8 April 2002; for the best presentation of the year, "*Vertebrados fósiles en Chile*", 16 October 2001.
- Fellow, John Simon Guggenheim Memorial Foundation, New York, awarded April 2001. "*The interplay of evolution and geologic change in South America*"; fellowship to support sabbatical year (July 2001-2002) of research, writing, and exploration in Chile.
- Elected President, Society of Vertebrate Paleontology (October 1998-2000; Past-President, 2000-2002; Vice-President/President-Elect 1996-1998; Secretary, 1993-1996; Board/Executive Committee, 1993-2002)
- Golden Muse Award, First Place for *Dino Documentary* (Field Museum Public Relations and RPM Advertising produced 30 second public service announcement of 1997 summer exhibit *Dino Families*; featured scientist), 8th Annual Muse Awards (1998; American Association of Museums); also awarded Bronze Telly (national award for advertising excellence).
- First Place, Science Category, 6th Annual Muse Awards (1996; American Association of Museums), for "*Life Over Time News/The Evolutionary Broadcasting Network*" series (scientific content specialist on Development team).
- "Best Museum Curator", 25th Anniversary Edition ("The Best of Chicago"), Chicago Magazine, December 1995.
- Appointed to named curatorship (John D. and Catherine A. MacArthur Curator), Field Museum, 1995.
- Alfred Sherwood Romer Prize (4th Annual), Society of Vertebrate Paleontology, October, 1982. For "Original and important research in Vertebrate Paleontology, and a presentation of highest quality at the Annual Meeting."
- Fellow of the Faculty, Columbia University, September 1977-May 1979 and September 1980-1982.
- Fellow of the Graduate Alumni Faculties, Columbia University, September 1979-May 1980.
- William R. Belknap Prize (Excellence in Geology), Yale University, May, 1977.
- Special Distinction in the Major (Geology and Geophysics), Yale University, May, 1977.
- Henry Moses Scholarship, Yale University, September 1973-May 1977.

