

JOHN J. FLYNN
FRICK CURATOR AND DIVISION CHAIR
DIVISION OF PALEONTOLOGY
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HIGHEST DEGREE EARNED

Ph.D.

AREA OF SPECIALIZATION

Evolution of mammals and Mesozoic vertebrates, 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, pending
Adjunct Professor, Department of Earth and Environmental Sciences, Columbia University, July 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

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 COMMITTEES

Alan Turner, DEES, Columbia University, November 2004-present

Aaron Hogue, Northwestern University, July 2002-2004

Mahesh Gurung, University of Illinois- Chicago, March 1998- 2004

Link Olson, University of Chicago, September 1995-1999

Francesca Smith, University of Chicago, September 1994-March 2002

Janet Cushing, University of Chicago, September 1994-1996

Francesca Smith, University of Chicago, September 1994-May 1996

John Alroy, University of Chicago, September 1990- June 1994

Javier Guerrero-Diaz, Duke University, May 1990-1993

Timothy Gaudin, University of Chicago, March 1989-June 1993

William Stevens, University of Chicago, March 1988-August 1994

P. Sikora, Rutgers University, 1988

R. Starcher, Rutgers University, 1987
M. Zeff, Rutgers University, 1987
A. Melillo, Rutgers University, 1985

GRADUATE ADVISEES

Michelle Spaulding, August 2005-present
Andrés Giallombardo, Columbia University, November 2004-present
Anjali Goswami, University of Chicago, November 2001-August 2005
John Finarelli, CEB, University of Chicago, September 2002-2005
Jon Marcot, University of Chicago, March 1999-December 2003
Karen Sears, University of Chicago, December 1999-June 2003
Lovasoa Ranivoharimanana, Departement d'Anthropologie Biologique et Paleontologie,
University of Antananarivo, Madagascar, 1998-present
Gina Wesley, University of Chicago, September 1998-March 2003
Darin Croft, University of Chicago, September 1996-May 2000
G. Buckley, Rutgers University, 1994
Doreen Covey, University of Illinois-Chicago, September 1993-July 2000
Pamela Austin, University of Illinois-Chicago, September 1991-1998
K.A. Suydam, Rutgers University, 1988
Gregory Buckley, Rutgers University, September 1986-June 1994
R. Cipolletti, Rutgers University, 1986

RESEARCH GRANT SUPPORT

National Science Foundation, "Collaborative Research: Andean Fossil Mammals—
Phylogenetic and Geologic Implications" \$232,623, 2004 – 2006.

RECENT ARTICLES IN REFEREED JOURNALS

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>

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 (Typotheria, 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 carnivoramorpha, 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 (Typotheria, 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.
- Charrier, R., A.N. Chávez, S. Elgueta, G. Hérail, J.J. Flynn, D. Croft, A.R. Wyss, and M. García. 2002. Rapid tectonic and paleogeographic evolution: The Chucal Anticline, Altiplano of Arica, Northern Chile. *IRD Collection* (5th International Symposium on Andean Geodynamics), Toulouse, France, p. 137-140.
- Charrier, R., O. Baeza, S. Elgueta, J.J. Flynn, P. Gans, S.M. Kay, N. Muñoz, A.R. Wyss, and E. Zurita. 2002. Evidence for Cenozoic extensional basin development and tectonic inversion in the southern central Andes, Chile (33°-36° S.L.). *Journal of South American Earth Sciences*, vol. 15, issue 1, p. 117-139.

- Flynn, J.J. 2002. Cenozoic Andean paleoenvironments and tectonic history: Evidence from fossil mammals. *IRD Collection* (5th International Symposium on Andean Geodynamics), Toulouse, France, p. 215-218.
- 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*, vol. 15, issue 3, p. 285-302.
- Flynn, J.J., D.A. Croft, R. Charrier, G. Hérail, and A.R. Wyss. 2002. The first Cenozoic mammal fauna from the Chilean Altiplano. *Journal of Vertebrate Paleontology (Rapid Communications)*, v. 22, no. 1, p. 200-206.

SPECIAL RECOGNITION/AWARDS

- 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.