

Marco Peter Ferretti, Ph.D.

Docente di Scienze – Liceo Statale Enrico Medi, Senigallia
Professore a contratto (Paleontologia) - Term Assistant Professor (Paleontology)
Scuola di Scienze e Tecnologie - *School of Science and Technology*
Sezione di Geologia - *Division of Geology*
Università di Camerino - *University of Camerino*

RESEARCH INTERESTS

- Systematics, functional morphology, and phylogeny of proboscideans
- Biochronology, paleoecology and paleogeography of Plio-Pleistocene mammals
- Adaptive and systematic interpretation of mammalian tooth enamel microstructure

ACADEMIC HONOURS AND AWARDS

- **National Scientific Qualification – Associate professorship** (Abilitazione Scientifica Nazionale per il settore 04/A2 seconda fascia), Anno: 2012.
- **"Cultore della materia" in Paleontology**, University of Firenze, Corso di Laurea in Scienze Naturali, 2003
- **Award for best thesis in Comparative Anatomy**, University of Bologna, 1994

RESEARCH FELLOWSHIPS

- **NATO Advanced Fellowship**, Centro Nazionale Ricerche – NATO at Severtsov Institute of Ecology and Evolution, Russian Academy of Science, Moscow, 2005
- **Royal Society Research Fellowship**, at University College London and Natural History Museum, London, 2004
- **Research fellowship** (Assegno di ricerca), University of Firenze, Italy, Earth Science Department, Firenze, Italy 2002 – 2004
- **PhD Scholarship**, University of Modena, 1994 – 1997

RELEVANT ACADEMIC EXPERIENCE

- **Term Assistant Professor** (Professore a contratto), University of Camerino, School of Science and technology, Geology Section, Camerino, Italy, 2016 – Present
 - Course: Paleontology (Undergraduate students)
- **Research Fellow**, University of Firenze, Earth Science Department, Firenze, Italy, 2002 – 2016
- **Contract Lecturer**, University of Firenze, Earth Science Department 2005-2006
 - Course: Vertebrate Functional Morphology (Graduate students)
- **Teaching Assistant**, University of Firenze, Earth Science Department, Firenze, Italy, 2001 - 2016
 - Teaching undergraduate students.
 - Supervising and guiding master's students' thesis work.
 - Assisting during final examinations (Vertebrate palaeontology; palaeoecology)
- **Postdoctoral Fellow**, University of Firenze, Italy, Earth Science Department, Firenze, Italy, 1999 - 2001
- **Fossil collection management**, University of Firenze, Museum of Geology and Palaeontology, Firenze, Italy, 1998 – 1999

FIELDWORK EXPERIENCE

- **Italy**: Palaeontological surveys in several sedimentary basins and fossiliferous localities in Italy, 1990 – present
- **Africa**: Field research in Neogene and Quaternary sedimentary basins of Eritrea, 1997; Libya, 2004
- **South America**: Field research in Pleistocene - Holocene sedimentary deposits of Ecuador, 1998, 1999; Argentina, 1999; Bolivia 2002, 2003

SERVICE -- PROFESSIONAL

Reviewer for Professional Journals

Alcheringa
Bollettino della Società Paleontologica Italiana
Geobios
Geodiversitas
Journal of Mammalian Evolution
Naturwissenschaften

Neues Jahrbuch für Geologie und Paläontologie
Pakistan Journal of Zoology
Paleontographia Italica
Palaeontographica
Paläontologische Zeitschrift
Paleontology
Rivista Italiana di Paleontologia e Stratigrafia
Quaternary International
Quaternary Sciences Reviews
Zoological Journal of the Linnean Society, Londra

Professional Affiliations

- *Member, Società Paleontologica Italiana, 1998 – present*
- *Member, Associazione Nazionale Insegnanti di Scienze Naturali, 2015 – present*
- *Member, The Palaeontological Society*

Research Travel to International Research Institutions

American Museum of Natural History, New York (USA) - 2002
Geological Institute, Mosca (Russia) - 2005
Ice Age Museum, Mosca (Russia) - 2005
Lake Biwa Museum, Kusatsu (Giappone) - 2005
Institut für Paläontologie, Bonn (Germania) - 1994
Museo Ecuatoriano de Ciencias Naturales, Quito (Ecuador) 1998, 1999
Museo de La Plata, La Plata (Argentina) - 1999
Museo Nacional Argentino de Ciencias Naturales, Buenos Aires (Argentina) -1999
Museo Nacional de Historia Natural, La Paz (Bolivia) 2002, 2003
Museo Nacional Paleontológico y Arqueológico, Tarija (Bolivia) 2002, 2003

Participation To International Scientific Conferences

1. **Ferretti M. P.**, Larramendi A., Palombo M.R. Zhang H. (2017) How many *Palaeoloxodon* species in Eurasia? VIIth International Conference on Mammoths and their Relatives” 17 -23 Settembre, Taichung, Taiwan.
2. **Ferretti M. P.**, (2016) A species-level phylogeny of elephants (Elephantinae) based on cranial characters. XVI Giornate di Paleontologia 2016, Annual Meeting of the Italian Palaeontological Society, May 25-27 2016, Faenza, Italy.
3. **Ferretti M. P.**, Rook, L., Abbate E. (2013) Significato sistematico e paleobiogeografico dei proboscidi fossili dell'Eritrea. XIII Giornate di

Paleontologia 2013, Annual Meeting of the Italian Palaeontological Society, May 23-25 2013, Perugia, Italy.

4. Palombo M.R., **Ferretti M.P.** 2010. What about the taxonomical status of European straight-tusked elephant? Vth International Conference on Mammoths and their Relatives 30 Agosto- 4 Settembre, Le-Puy-en-Velay, France.
5. **Ferretti, M. P.**, Shoshani, J. and Rook L. 2007. Confronto degli stiloioidei tra mastodonti longirostri e brevirostri: aspetti filogenetici e adattativi. In: Tintori A. & Boccaletti M. (eds.), Riassunti delle "VII Giornate di Paleontologia della Società Paleontologica Italiana", 6-10 giugno, Barzio-Pasturo, Lecco, 83 pp.
6. **Ferretti, M. P.** 2005. The small sized *Palaeoloxodon mnaidriensis* (Proboscidea) from Puntali Cave, Carini (Sicily, Italy; Late Pleistocene). 9th International Mammalogical Congress, 31st July- 5th August, Sapporo, Japan.
7. **Ferretti, M. P.** and Debruyne R. 2005. The mandibular canal in proboscideans: comparative anatomy and phylogenetic implications. 9th International Mammalogical Congress, 31st July- 5th August, Sapporo, Japan.
8. **Ferretti, M. P.**, Paredes F.R., and Rook, L. 2005. Osteology and relationships of South American *Cuvieronius* (Gomphotheriidae). 9th International Mammalogical Congress, 31st July- 5th August, Sapporo, Japan.
9. Delmer, C. Croitor, R. and **Ferretti, M. P.** 2005. *Deinotherium gigantissimum* (Proboscidea) from Pripiceni (Rezina, North Moldova; Early Pliocene): Morphology and Adaptations. 9th International Mammalogical Congress, August 31st July- 5th, Sapporo, Japan.
10. Takahashi, K., **Ferretti, M. P.** Saegusa, H. and Shoshani, J. 2005. Hyoid morphology in longirostrine and brevirostrine proboscideans: adaptive and phylogenetic aspects. 9th International Mammalogical Congress, August 31st July- 5th, Sapporo, Japan.
11. Shoshani, J., **Ferretti, M. P.**, Lister, A. M., Saegusa, H., Agenbroad L.D., Mol, D. and Takahashi, K. 2005. On the relationships within the Elephantinae using hyoid characteristics. 2nd International Congress "The World of Elephants", September 22-25, 2005, Mammoth Site of Hot Spring, South Dakota, USA.
12. Rook, L. and **Ferretti, M. P.** 2005. Late Villafranchian dogs. New Data and overview. Workshop on The Early-Middle Pleistocene transition. May 20-22, Mentone, France.
13. **Ferretti, M.P.** 2004. *Stegotetrabelodon* from southern Italy: an African element in the late Miocene of Europe. 3rd Symposium on the Sedimentary Basins of Libya - "Geology of East Libya", November 21-23 2004, Binghasi, Libya.
14. **M. P. Ferretti** and H. Saegusa 2004. Paleobiogeography of African-Eurasian proboscideans: systematics and dispersal events. Scientific Session Abstracts, 32nd International Geological Congress, August 20-28, Florence, Italy, p. 705.
15. **Ferretti, M. P.** and Rook, L. 2004. The Bolivar gomphother site: the last record of proboscideans from the Ecuadorian Altiplano: Scientific Session Abstracts, 32nd International Geological Congress, August 20-28, Florence, Italy, p. 705.
16. Palombo, M. R. and **Ferretti, M. P.** 2004. Italian steppe mammoth occurrences. VI International Palaeontological Colloquium in Weimar. Late

Neogene and Quaternary biodiversity and evolution: Regional developments and interregional correlations. April 25th - 30th, 2004, Weimar (Germany).

17. **Ferretti, M. P.** and Rook, L. 2003. An overview on feeding adaptations in the Hyaenidae (Carnivora, Mammalia). Giornate di Paleontologia 2003, Annual Meeting of the Italian Palaeontological Society, May 22-25 2003, Alessandria, Italy.
18. **Ferretti, M. P.** and Rook, L. 2003. South American Proboscideans: New data and new problems. Giornate di Paleontologia 2003, Annual Meeting of the Italian Palaeontological Society, May 22-25 2003, Alessandria, Italy.
19. Rook, L., **Ferretti, M. P.**, Arca, M. and Tiveri, C. 2003. Il *Chasmaporthetes* (Hyaenidae, Carnivora, Mammalia) di Monte Tuttavista (Pliocene superiore/Pleistocene inferiore; Orosei, Sardegna, Italia): sistematica e adattamenti alimentari. National Congress of the Italian Earth Sciences Federation (FIST), September 16-19, Bellaria, Italy.
20. **Ferretti, M. P.** 2001. Enamel microstructure and proboscidean systematics: an overview. 6th European Workshop on Vertebrate Paleontology, September 19-22 2001, Firenze, Italy.
21. **Ferretti, M. P.**, Torre, D. and Rook, L. 2001. The *Stegotetrabelodon* remains from Cessaniti (Calabria, Southern Italy) and their bearing on Late Miocene biogeography of the genus. The World of Elephants, 1st International Congress, October 16-20 2001, Rome, Italy.
22. **Ferretti M. P.**, Libsekal Y. and Rook L. 2001. An analysis of the early Pleistocene elephants from Buia (Northern Danakil Depression, Eritrea) and a discussion on evolutionary trends in *Elephas recki* dentition. The World of Elephants, 1st International Congress, October 16-20 2001, Rome, Italy.
23. **Ferretti, M. P.** and Rook., L. 2001. Evolution of the feeding system and enamel structure in the Hyaenidae. 6th International Congress on Vertebrate Morphology, July 21-26, 2001, Jena, Germany.
24. Torre, D., Abbazzi, L., Delfino, M., Fanfani, F., **Ferretti, M. P.**, Ficarelli, G., Mazza, P., Rook, L., and Rustioni, M. 2000. Mammal paleobioprovinces in the Italian Late Miocene. 11th RCMNS Congress, September 25-27 2000, Fez, Marocco.
25. **Ferretti, M. P.**, Rook, L. and Masini, F. 2000. Parallelism in proboscideans evolution. 5th European Workshop on Vertebrate Paleontology, 26 June – 1 July 2000, Karlsruhe, Germany.
26. **Ferretti, M. P.** 1999. Functional aspects of the enamel evolution in *Mammuthus* (Proboscidea, Elephantidae). 2nd International Mammoths Congress, May 17 -21 1999, Rotterdam, The Netherlands.

RELEVANT PUBLICATIONS (Peer Reviewed Journals)

1. Mothè D., **Ferretti M.**, Avilla, L. (2017). Running over the same old ground: *Stegomastodon* never roamed South America. **Journal of Mammalian Evolution** <https://doi.org/10.1007/s10914-017-9392-y>

2. **Ferretti M. P.**, Rook L., Carone G., Marra A.C. (2017). New findings of *Stegotrabelodon syrticus* from the Late Miocene of Cessaniti, southern Italy. **Bollettino della Societa Paleontologica Italiana** 56(1)(ISSN 0375-7633):89-92
3. Mothè D., **Ferretti M.**, Avilla, L. (2016).The dance of Tusk: rediscovery of lower incisor in the Pan-American proboscidean *Cuvieronius hyodon* revises incisor evolution in the Elephantimorpha. **PloSONE** 11(1): e0147009.doi:10.1371/journal.pone.0147009.
4. Abbate E., Bruni P., **Ferretti M.P.**, Delmer, C., Laurenzi, M. A., Hagos, M., Bedri, O., Rook L., Sagri M., Libsekal Y. (2013). The East Africa Oligocene intertrappean beds: Regional distribution, depositional environments and Afro/Arabian mammal dispersal. **Journal of African Earth Sciences**, 99 (2), pp. 463-489.
5. Rook L., Croitor R., Delfino M., **Ferretti M.P.**, Gallai G., Pavia M. (2013). The Upper Valdarno Plio-Pleistocene vertebrate record: an historical overview, with notes on palaeobiology and stratigraphic significance of some important taxa. **Italian Journal of Geosciences**, 132: 104-125, Roma.
6. Abbate E., Bruni P., Coppa A., Aria D., **Ferretti M.P.**, Libsekal Y., Rook L., Sagri M. (2012). A new Oligo-Miocene mammal-bearing site from a sedimentary intercalation in the Trap Basalts of central Eritrea. **Rivista Italiana di Paleontologia e Stratigrafia**, 118: 545-550, Milano.
7. Palombo M., **Ferretti M.P.**, Pillola G., Chiappini L. (2012). A reappraisal of the dwarf Mammoth from Gonnessa, Sardinia. **Quaternary International**, 255: 158-170, London.
8. **Ferretti M.P.** and Debruyne R. (2011). Anatomy and phylogenetic value of the mandibular and coronoid canals and their associated foramina in proboscideans (Mammalia). **Zoological Journal of the Linnean Society**, 161: 391-413, London.
9. Palombo, M. R., **Ferretti, M. P.** (2010). What about the taxonomical status of European straight-tusked elephants? **Quaternaire** 3: 27-28. Paris.
10. **Ferretti M.P.** (2010). Studies of Proboscidean enamel: past, present and future. **Quaternaire** 3: 36. Paris.
11. **Ferretti, M.P.** (2010). The anatomy of *Haplomastodon chimborazi* (Proboscidea) from the Late Pleistocene of Ecuador and its bearing on the phylogeny and systematics of South American gomphotheres. **Geodiversitas**, 32 (4): 663-721. Paris.
12. Abbate E., Amel Awad, Billi P., Bruni P., Delfino M., **Ferretti M.P.**, Filippi O., Gallai G., Ghinassi M., Lauritzen S.E., Lo Vetro D., Martínez-Navarro B., Martini F., Omar Bedri, Papini P., Rook L., Sagri M. (2010). Pleistocene environments and human frequentation in the Middle Atbara valley (Khashm el Girba, eastern Sudan). **Palaeogeography, Palaeoclimatology, Palaeoecology**, 291(1-2): 12-34, Amsterdam.
13. **Ferretti, M.P.** (2009). Comment on the proposed conservation of usage of *Mastodon waringi* Holland, 1920 (currently *Haplomastodon waringi*; Mammalia, Proboscidea) by designation of a neotype. **Bulletin of Zoological Nomenclature** 66(2): 358-359, London.

14. **Ferretti, M. P.** (2008). A review of South American gomphotheres. *Bulletin of the New Mexico Natural History Museum*, 44: 381-391, Albuquerque.
15. **Ferretti, M. P.** (2008). Miocene proboscideans from Italy: African elements and palaeogeographic implications. In Salem M.J., El-Arnauti A. & El Sogher Saleh A. (Eds), *The Geology of East Libya*, vol. 3: 325-334. Earth Science Society of Libya, Benghazi. ISBN 978-9959-840-07-3.
16. **Ferretti, M. P.** (2008). The dwarf elephant *Palaeoloxodon mnaidriensis* from Puntali Cave, Carini (Sicily; late Middle Pleistocene): Anatomy, systematics and phylogenetic relationships. *Quaternary International* 182: 90-108, London.
17. Rook, L., Abbazzi, L., Chesi, F., Delfino, M., **Ferretti, M.P.**, Gallai, G. (2008). The Italian record of latest Miocene continental vertebrates. *Bollettino della Società Paleontologica Italiana*, 47(2): 191-194. Modena.
18. Lacomat F., Abbazzi L., **Ferretti M.P.**, Martínez-Navarro B., Moullé P-E., Palombo M.R., Rook L., Turner A., Valli A. M-F. (2008). New data on the Early Villafranchian fauna from Vialette (Haute-Loire, France) based on the collection of the Crozatier Museum (Le Puy-en-Velay, Haute-Loire, France), *Quaternary International* 179: 64-71, London.
19. **Ferretti, M. P.** (2008). Enamel structure of *Cuvieronius hyodon* (Proboscidea, Gomphoteriidae) with a discussion on enamel evolution in elephantoids. *Journal of Mammalian Evolution*, 15: 37-58, New York.
20. **Ferretti, M. P.** (2007). Evolution of bone-cracking adaptations in hyaenids (Carnivora Hyaenidae). *Swiss Journal of Geosciences* 100:41-52, Basel.
21. Shoshani, J., **Ferretti, M. P.**, Lister, A. M., Saegusa, H., Agenbroad L.D., Mol, D., Takahashi, K. (2007). Relationships within the Elephantinae using hyoid characters. *Quaternary International*, 169-170: 174-185; London.
22. Rook L., Abbazzi L., Delfino M., **Ferretti M.P.** (2007). Early Pleistocene Vertebrate Records. In: Schreve D. (Ed.) *Quaternary Vertebrate Records. Encyclopedia of Quaternary Science* (edited by S.A. Elias): 3133-3139, Elsevier Science, Amsterdam.
23. Coltorti M., Abbazzi L., **Ferretti M.P.**, Iacumin P., Paredes Rios F., Pellegrini M., Pieruccini P., Rustioni M., Tito G., Rook L. (2007). Last Glacial mammals in South America: a new scenario from the Tarija Basin (Bolivia). *Naturwissenschaften* 94: 288-299, Berlin.
24. Rook, L., Abbazzi, L., Delfino, M., **Ferretti, M. P.**, Mazza P., Torre D. (2005). I vertebrati Continentali. In: L. Bonfiglio (ed.) *Paleontologia dei vertebrati in Italia. Memorie del Museo Civico di Storia Naturale di Verona 2 serie, Sez. Scienze Terra* 6: 157-162, Verona. ISBN 8889230045.
25. **Ferretti M. P.** and Palombo M. R. (2005). *Mammut borsoni*. *Anancus arvernensis*. *Mammuthus meridionalis*. In: F. Lacomat (ed.) *Les grands Mammifères fossiles du Velay. Annales des Amis du Musée Crozatier*, 13/14 : 46-47, 48-50, 70-71, .le Puy-en-velay. ISSN 1246774X.
26. Palombo M. R. and **Ferretti M.P.** (2005). The Italian elephant fossil record: knowledge, problems and perspectives. *Quaternary International* 126-128 (2005): 107-136, London.
27. Martínez-Navarro, B., Rook, L., Segid, A., Yosieph, D., **Ferretti. M. P.**, Shoshani, J., Libsekal, Y. (2004). The large fossil mammals from Buia (Eritrea):

- systematics, biochronology and palaeoenvironments. ***Rivista Italiana di Paleontologia e Stratigrafia*** 110 (suppl.): 61-88, Milano.
28. Rook, L., **Ferretti, M.P.**, Arca, M., Tuveri, C. (2004). *Chasmaporthetes melei* n.sp., an endemic hyaenid (Carnivora, Mammalia) from Monte Tuttavista fissure fillings (late Pliocene to early Pleistocene; Orosei, Sardinia, Italy). ***Rivista Italiana di Paleontologia e Stratigrafia*** 110(3): 707-714, Milano.
 29. **Ferretti, M. P.**, Di Celma, C., Lori, P. (2003). Occurrence of *Mammuthus meridionalis* (Proboscidea, Elephantidae) in the Early Pleistocene deposits of Ripatransone (Periadriatic basin; Ascoli Piceno, Italy): Stratigraphic contest and biochronologic implication. *Studi Geologici Camerti*, N.S. 1: 37:44, Camerino.
 30. **Ferretti, M. P.** (2003). Structure and Evolution of Mammoth Molar Enamel. ***Acta Paleontologica Polonica*** 48 (3): 383-396, Varsavia.
 31. **Ferretti, M. P.**, Rook, L., Torre, D. (2003). *Stegotetrabelodon* (Proboscidea, Elephantidae) from the late Miocene of Southern Italy. ***Journal of Vertebrate Paleontology*** 23(3): 659-666.
 32. **Ferretti, M. P.**, Ficarelli, G., Liebskal, Y., Teclé, T.M., Rook, L. (2003). Fossil elephants (Proboscidea, Elephantidae) from Buia (Northern Afar depression, Eritrea) with remarks on the systematics of *Elephas recki*. ***Journal of Vertebrate Paleontology*** 23(1): 244-257.
 33. **Ferretti, M. P.** (2003). Functional aspects of the enamel evolution in *Mammuthus* (Proboscidea, Elephantidae). *DEINSEA* 9: 111-116. Rotterdam.
 34. Rustioni, M., **Ferretti, M. P.**, Mazza, P., Pavia, M. Varola, A. (2003). The vertebrate fauna from Cardamone (Lecce, Southern Italy): an example of Mediterranean Mammoth Fauna. *DEINSEA* 9: 395-403, Rotterdam.
 35. Masini, F., Bonfiglio, L., Abbazzi, L., Delfino, M., Fanfani, F., **Ferretti, M.**, Kotsakis, T., Petruso, D., Marra, C., Torre, D. (2002). Vertebrate assemblages of the Central-Western Mediterranean islands during the Pliocene and Quaternary: Reflecting on extinction events. In: Waldren W. and Ensenyat J. A. (eds) *Worlds Islands in Prehistory. International Insular Investigations*. 5th Deia International Conference of Prehistory. *BAR International Series* 1095: 437-444.
 36. **Ferretti, M. P.** and Croitor, R. (2001). Functional morphology and ecology of Villafranchian Proboscideans from Central Italy. In: Cavaretta G., Gioia P., Mussi M., and Palombo M.R. (eds), *The World of Elephants*. Proceedings of the 1st International Congress, Rome, 16-20 October: 103-108. CNR, Roma.
 37. Rook, L., **Ferretti, M.P.**, Libsekal, Y. (2001). Analysis of the Early Pleistocene elephants from Buia (Eritrea). In: Cavaretta G., Gioia P., Mussi M., and Palombo M.R. (eds), *The World of Elephants*. Proceedings of the 1st International Congress, Rome, 16-20 October: 137-142. CNR, Roma.
 38. **Ferretti, M. P.**, (2001). Evolution of feeding system and enamel structure in the Hyenidae. ***Journal of Morphology***, 248,3: 229.
 39. Abbazzi, L., Fanfani, F., **Ferretti, M. P.**, Rook, L., Cattani, L., Masini, F., Mallegni, F., Negrino, F., Tozzi, C. (2000). New Human remains of Archaic *Homo sapiens* and Lower Palaeolithic industries from Visogliano (Duino Aurisina, Trieste, Italy). ***Journal of Archaeological Sciences*** 27: 1173-1186, Waltham.

40. **Ferretti, M. P.** (1999). Tooth enamel structure in the hyaenid *Chasmaporthetes lunensis lunensis* from the Late Pliocene of Italy, with implication on feeding behaviour. ***Journal of Vertebrate Paleontology*** 19(4): 767-770.
41. **Ferretti, M. P.** (1999). *Mammuthus meridionalis* (Mammalia, Proboscidea, Elephantidae) from the "Sabbie Gialle" of Oriolo (Cava La Salita, Faenza, Northern Italy) and other European late population of southern mammoth. ***Eclogae Geologicae Helvetiae*** 92: 503-515, Basel.
42. **Ferretti, M. P.** (1997). *M. cf. primigenius*, a new faunal element from the late middle Pleistocene of the Conca river (Cattolica, Romagna, Italy). ***Bollettino della Società Paleontologica Italiana*** 36(3): 391-398; Modena.

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