

UNIVERSITÀ DEGLI STUDI DI MILANO

Procedura di valutazione per la chiamata a professore di I fascia da ricoprire ai sensi dell'art. 24, comma 6, della Legge n. 240/2010 per il settore concorsuale 04/A2 - Geologia Strutturale, Geologia Stratigrafica, Sedimentologia e Paleontologia.

(settore scientifico-disciplinare GEO/02 - Geologia Stratigrafica e Sedimentologica)
presso il Dipartimento di SCIENZE DELLA TERRA 'ARDITO DESIO', Codice concorso _4089

[GIOVANNI MUTTONI]

CURRICULUM VITAE

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	MUTTONI
NOME	GIOVANNI
DATA DI NASCITA	[05/02/1965]

POSITION

Associate Professor, Dipartimento di Scienze della Terra, Università degli Studi di Milano, Via Mangiagalli 34, 20133 Milano

WORK EXPERIENCE

1994-1995. Post-doctoral fellow at Lamont-Doherty Earth Observatory of Columbia University, USA.
1995-1997. Post-doctoral fellow at the University of Milan and the Institute of Marine Geology, National Research Council (C.N.R.), Bologna, Italy.
1997-2000. Wissenschaft Assistant at the Institute of Geophysics, ETH Zurich, Switzerland.
1996-2000. Adjunct Assistant Research Scientist at Lamont-Doherty Earth Observatory of Columbia University, USA.
1998-2000. Adjunct Assistant Research Scientist at the Institute of Marine Geology, C.N.R. Bologna, Italy.
2010-2017. Director of the Alpine Laboratory of Paleomagnetism (ALP): <http://users.unimi.it/paleomag/peveragno/index.htm>
2000-2005. Researcher at the Department of Earth Sciences, University of Milan, Italy.
2006-Present. Associate Professor at the Department of Earth Sciences, University of Milan, Italy.
2013. Habilitated as Full Professor according to the Italian National Scientific Habilitation Procedure (ASN 2012).
2019. Habilitated as Full Professor according to the Italian National Scientific Habilitation Procedure (ASN 2018).

EDUCATION AND TRAINING

1990. Laurea cum laude in Geological Sciences: "Geologia di Hydra (Grecia): Il Triassico Inferiore e Medio" (Geology of the Early-Middle Triassic succession of Hydra, Greece). University of Milan 08/03/1990 (Advisor: M. Gaetani).

1994. Doctorate (PhD) in Magnetostratigraphy: "Analisi Paleomagnetica di alcune Successioni Stratigrafiche Significative del Triassico Inferiore e Medio della Tetide" (Magnetostratigraphy of key Early and Middle Triassic sections on the Tethys realm). University of Milan 15/09/1994. (Advisor: M. Gaetani), in collaboration with Lamont-Doherty Earth Observatory of Columbia University, USA (External Advisor: Dennis V. Kent).

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2
Spanish, German	B1	B1	B1	B1

Organisational / managerial skills

- **Associate Editor** of the Rivista Italiana di Paleontologia e Stratigrafia.
- Scientific Advisor of the 'Centro Interuniversitario di Magnetismo Naturale 'Roberto Lanza'.
- Reviewer for scientific journals: Nature Geoscience, EPSL, Tectonophysics, PEPI, Palaeogeography Palaeoecology, Palaeoclimatology, Journal of Geophysical Research, Geophysical Research Letters, etc.
- Member of the Faculty Board (Collegio Docenti) of the doctoral school in Earth Sciences.
- Member of the Faculty Board (Collegio Docenti) of the doctoral school in Natural Sciences (discontinued).
- Member of the Faculty board of the Graduate and Undergraduate Studies in Natural Sciences.
- Member of the Faculty board of the Graduate and Undergraduate Studies in Geological Sciences.
- Member of the Department Library Advisory Board (discontinued).
- Member of the Department Laboratories&Facilities Board.
- *Responsabile di Struttura, Dipartimento di Scienze della Terra.*
- *Presidente Commissione Spazi e Personale, Dipartimento di Scienze della Terra.*

Job-related skills – Projects Funded

- Stratigraphic-paleogeographic and geochemical-petrographic characterization of the events around the Triassic-Jurassic boundary: an integrated approach (Stratigrafica integrata degli eventi tra Triassico

Superiore e Giurassico Inferiore nel settore tetideo alpino). Project funded by PRIN - Programmi di Ricerca Scientifica di Rilevante Interesse Nazionale, 2006–2008, PA Flavio Jadoul. 71.000 Euros.

- Progetto Perforazione Ceprano (Valle Latina, Lazio) finanziato da C.N.R.-IDPA, 2008. PI Giovanni Muttoni.
- Late Matuyama climate forcing on sedimentation at the margin of the southern Alps (Italy). Project funded by Regione Lombardia, IREALP, C.N.R.-IDPA, 2009-2010.
- Drift history of Iran from the Ordovician to the Triassic. Project funded by MEBE (Middle East Basins Evolution) Programme (2002-2007) (tectonic and geodynamic evolution of the Middle East and western Central Asia).
- Triassic/Jurassic stratigraphy in Turkey. Project funded by DARIUS Programme (2009-2012) (tectonic and geodynamic evolution of the Middle East and western Central Asia).
- Variability and geographic provenance of eolian dust in Antarctica during the late Quaternary (Caratterizzazione delle proprietà magnetiche delle polveri eoliche e variabilità climatica in Antartide nel tardo Quaternario). Project funded by PRIN Programmi di Ricerca Scientifica di Rilevante Interesse Nazionale 2011–2013, PA Luca Lanci. 118.325 Euros
- Megalopolis and Kozarnica: the oldest archeological sites in the Balkans. Project funded by Fondo Scavi Archeologici 2015 – Università degli Studi di Milano. PI Giovanni Muttoni.
- Ammesso al finanziamento delle attività base di ricerca MIUR 2017 – Classe PA.

Job-related skills - Teaching

I have an extensive teaching experience developed at ETH Zurich and the University of Milano.

1997-2000 Field-based practical classes for the course Geophysics at the Institute of Geophysics, ETH Zurich, Switzerland.

2000-2009. Laboratory-based practical classes for the course 'Geology' for the Baccalaureate Degree (Laurea Triennale) in Natural Sciences, University of Milan.

2004-2009. Course "Paleomagnetism and Paleogeography" for the Master Degree (Laurea Specialistica) in Geological Sciences (6 credits), University of Milan.

2005-Present. Course "Geology" for the Baccalaureate Degree (Laurea Triennale) in Natural Sciences (4 credits), University of Milan.

2010-Present. Course "Stratigraphy" for the Master Degree (Laurea Specialistica) in Geological Sciences (3 credits plus Laboratory-based practical classes), University of Milan.

2011-Present. Course "Geological evolution of a habitable planet" for the Master Degree (Laurea Specialistica) in Natural Sciences (6 credits).

2012-Present. Course "Metodi e Analisi degli Ecosistemi" for the Master Degree (Laurea Specialistica) in Natural Sciences (1 credit), University of Milan.

I have led several field trips (campagne geologiche) for Natural Sciences and Geological Sciences students (Itaca, Greece; Southern Alps).

I served as supervisor for **42+ laurea theses** in Natural Sciences and

Geological Sciences.

PhD and Postocs

I have officially mentored 4 PhD students of the University of Milan (E. Dall'olio, A. Baucon, A. Pellizzzone, E. Monesi), one PhD from the University of Milano-Bicocca (G. Scardia), one PhD from the University of Padova (E. Dallanave), and one Postdoc of the University of Milan (M. Maron). I have also mentored unofficially two PhDs from external institutions (K. Aubele and U. Kirscher, Ludwig-Maximilians University, Munich).

- 2006 Dr. Giancarlo Scardia (now at University of Sao Paulo, Brazil)
- 2009 Dr. Edoardo Dallanave (now at Ludwig-Maximilian University)
- 2010 Dr. Eleonora Dall'olio
- 2011 Dr. Andrea Baucon
- 2011 Dr. Anna Pellizzzone,
- 2012 Dr. Edoardo Monesi
- 2016-Dr. Matteo Maron

PUBLICATIONS

Peer-Reviewed Publications

I have published a total of 120 scientific publications, **106 of which listed in Scopus** yielding an **H-index of 37**. These publications reflect my broad research interests including: definition of the geomagnetic polarity time scale for the Triassic and Jurassic. Pangea configuration during the Permian–Triassic. Response of the natural systems to the motion of plates across zonal climate belts. Geological causes of the transition from greenhouse to icehouse conditions in the Cenozoic. Jurassic paleogeography and true polar wander. Climatic and sedimentary evolution of the Mediterranean region during the Pliocene- Pleistocene. Stratigraphy and age of the earliest human occupation of Europe during the late Early Pleistocene climate transition.

- 1) 1992. Angiolini L., Dragonetti L., Muttoni G. and Nicora A., Triassic stratigraphy in the island of Hydra (Greece). *Rivista Italiana di Paleontologia e Stratigrafia* 98, 137-180.
- 2) 1993. Muttoni G. and Rettori R., New biostratigraphic data on the Triassic of the Marathovouno hillock area (Chios Island, Greece). *Rivista Italiana di Paleontologia e Stratigrafia* 99, 461-472.
- 3) 1994. Muttoni G. and Kent D.V., Paleomagnetism of latest Anisian (Middle Triassic) sections of Prezzo Limestone and Buchenstein Formation, Southern Alps, Italy. *Earth and Planetary Science Letters* 122, 1-18.
- 4) 1994. Muttoni G., Channell J.E.T., Nicora A. and Rettori R., Magnetostratigraphy and biostratigraphy of an Anisian-Ladinian (Middle Triassic) boundary section from Hydra (Greece). *Paleogeography, Paleoclimatology, Paleoecology* 111, 249-262.
- 5) 1994. Muttoni G., Kent D.V. and Gaetani M., The base of the Anisian. A Candidate Stratotype Section And Point from Chios Island (Greece). *Albertiana* 13, 37-43.
- 6) 1994. Rettori R., Angiolini L. and Muttoni G., Lower and Middle Triassic foraminifera from Eros Limestone, Hydra Island, Greece. *Journal of Micropaleontology* 13, 25-46.
- 7) 1995. Muttoni G., Kent D.V. and Gaetani M., Magnetostratigraphy of a Lower/Middle Triassic boundary section from Chios (Greece). *Physics of the Earth and Planetary Interiors* 92, 245-261.
- 8) 1996. Muttoni G., "Wasp-waisted" hysteresis loops from a remagnetized Triassic limestone. *Geophysical Research Letters* 22/3.

- 9) 1996. Muttoni G., Preliminary results on the paleomagnetism of Upper Permian Verrucano Lombardo sandstones from Val Camonica and of Upper Triassic Val Sabbia sandstones from Val Brembana, Southern Alps. *Natura Bresciana* 30, 17-30.
- 10) 1996. Muttoni G., Kent D. V., Nicora A., Rieber H. and Brack, P., Magneto-biostratigraphy of the 'Buchenstein Beds' at Frötschbach (western Dolomites, Italy). *Albertiana* 17, 51-56.
- 11) 1996. Muttoni G., Kent D.V., Meço S., Nicora A., Balini M., and Gaetani M., Magneto-biostratigraphy of the Spathian to Anisian (Early to Middle Triassic) Kçira section, Albania. *Geophysical Journal International* 127, 503-514.
- 12) 1996. Muttoni, G., Kent, D. V. and Channell, J. E. T., Evolution of Pangea: Paleomagnetic Constraints from the Southern Alps, Italy, *Earth and Planetary Science Letters* 140, 97-112.
- 13) 1997. Muttoni, G., Kent D.V., Brack, P., Nicora, A. and Balini, M., Middle Triassic Magneto-Biostratigraphy from the Dolomites and Greece, *Earth and Planetary Science Letters* 146, 107-120.
- 14) 1998. Broglio Loriga C., Cirilli S., De Zanche V., Di Bari D., Gianolla P., Laghi G.F., Lowrie W., Mastandrea A., Mietto P., Muttoni G., Neri C., Posenato R., Rechichi M., Rettori R. and Roghi G., A GSSP candidate for Ladinian/Carnian boundary: The Prati di Stuares section (Dolomites, Italy), *Albertiana* 21, 2-18.
- 15) 1998. Muttoni G., Kent D.V., Meço S., Nicora A., Balini M., Gaetani M. and Krystyn, L., Towards a Better Definition of the Middle Triassic Magnetic Polarity Stratigraphy in the Tethys Realm. *Earth and Planetary Science Letters* 164, 285-302.
- 16) 1998. Muttoni, G., Argnani, A., Kent, D. V., Abrahamsen, N. and Cibin, U., Paleomagnetic Evidence for Neogene Tectonic Rotations in the Northern Apennines. *Earth and Planetary Science Letters* 154, 25-40.
- 17) 1999. Broglio Loriga C., Cirilli S., De Zanche V., Di Bari D., Gianolla P., Laghi G. F., Lowrie W., Manfrin S., Mastandrea A., Mietto P., Muttoni G., Neri C., Posenato R., Rechichi M., Rettori R. and Roghi G., The "Prati di Stuares" section (Dolomites, Italy): A GSSP Candidate for the Base of the Carnian (Late Triassic). *Rivista Italiana di Paleontologia e Stratigrafia* 105, 37-78.
- 18) 2000. Brack, P. and Muttoni, G., High-resolution magnetostratigraphic and lithostratigraphic correlations in Middle Triassic pelagic carbonates from the Dolomites (northern Italy). *Paleogeography, Paleoclimatology, Paleoecology*, 161, 361-380.
- 19) 2000. Channell, J.E.T., Erba, E., Muttoni, G. and Tremolada, F., Early Cretaceous magnetic stratigraphy in the APTICORE drill core and adjacent outcrop at Cison (Southern Alps, Italy), and correlation to the proposed Barremian/Aptian boundary stratotype. *Geological Society of America Bulletin* 112(9), 1430-1443.
- 20) 2000. Muttoni G., Lanci L., Argnani A., Hirt A. M., Cibin U., Abrahamsen N. and Lowrie, W., Paleomagnetic Evidence for a Neogene Two-Phase Counterclockwise Tectonic Rotation in the Northern Apennines (Italy). *Tectonophysics*, (326)3-4, 241-253.
- 21) 2000. Muttoni, G., Gaetani, M., Budurov K., Zagorchev I., Trifonova E., Ivanova D., Petrounova L., and Lowrie W., Middle Triassic palaeomagnetic data from northern Bulgaria: constraints on Tethyan magnetostratigraphy and palaeogeography. *Paleogeography, Paleoclimatology, Paleoecology* 160, 223-237.
- 22) 2001. Brack P., Muttoni G., and Rieber H., Comment on: 'Magnetostratigraphy and biostratigraphy of the Middle Triassic Margon section (Southern Alps, Italy)' by P.R. Gialanella, F. Heller, P. Mietto, A. Incoronato, V. De Zanche, P. Gianolla, G. Roghi. *Earth and Planetary Science Letters* 193, 253-255.
- 23) 2001. Muttoni G., Garzanti E., Alfonsi L., Cirilli S., Germani D., and Lowrie W., Motion of Africa and Adria since the Permian: paleomagnetic and

- paleoclimatic constraints from northern Libya. *Earth and Planetary Science Letters* 192, 159-174.
- 24) 2001. Muttoni G., Kent D.V. and Orchard M., Paleomagnetic reconnaissance of Early Mesozoic carbonates from Williston Lake, northern British Columbia, Canada: Evidence for Late Mesozoic remagnetization. *Canadian Journal of Earth Sciences* 38, 1157-1168.
 - 25) 2001. Muttoni, G., Kent, D.V., DiStefano, P., Gullo, M., Nicora, A., Tait, J., and Lowrie, W., Magnetostratigraphy and Biostratigraphy of the Carnian/Norian Boundary Interval from the Pizzo Mondello Section (Sicani Mountains, Sicily). *Paleogeography, Paleoclimatology, Paleoecology* 166, 383-399.
 - 26) 2002. Muttoni G., Garzanti E., Alfonsi L., Cirilli S., Germani D., and Lowrie W., Corrigendum to "Motion of Africa and Adria since the Permian: paleomagnetic and paleoclimatic constraints from northern Libya": [*Earth and Planetary Science Letters* 192 (2001) 159–174]. *Earth and Planetary Science Letters* 194, 395.
 - 27) 2003. Angiolini L., Balini, M., Garzanti E., Nicora A., Tintori A., Crasquin S., and Muttoni G., Permian climatic and paleogeographic changes in Northern Gondwana: the Khuff Formation of Interior Oman. *Paleogeography, Paleoclimatology, Paleoecology* 191, 269-300.
 - 28) 2003. Muttoni G., Carcano, C., Garzanti E., Ghielmi M., Piccin, A., Pini, R., Rogledi S., and Sciunnach D., Onset of major Pleistocene glaciations in the Alps. *Geology* 31, 989-992.
 - 29) 2003. Muttoni G., Kent D.V., Garzanti E., Brack P., Abrahamsen N., Gaetani M., Early Permian Pangea 'B' to Late Permian Pangea 'A'. *Earth and Planetary Science Letters* 215, 379-394.
 - 30) 2003. Kent D.V. and Muttoni, G., Mobility of Pangea: Implications for Late Paleozoic and early Mesozoic paleoclimate. P.M. Letourneau, P.E. Olsen, Editors, *The Great Rift Valleys of Pangea in Eastern North America. Tectonics, Structure, and Volcanism. Volume 1*, pp 12-20, Columbia University Press.
 - 31) 2004. Muttoni G., Kent D.V., Garzanti E., Brack P., Abrahamsen N., Gaetani M., Erratum to "Early Permian Pangea 'B' to Late Permian Pangea 'A'": [*Earth Planet. Sci. Lett.* 215 (2003) 379–394]. *Earth and Planetary Science Letters* 218, 539-540.
 - 32) 2004. Kent D.V., Muttoni G., Brack P., A Much Faster Tempo for Sea-level Variations in the Middle Triassic Latemar Carbonate Platform in the Dolomites (Italy). *Earth and Planetary Science Letters* 228, 369-377.
 - 33) 2004. Muttoni G., Nicora A., Brack P., Kent, D.V., Integrated Anisian-Ladinian boundary chronology. *Paleogeography, Paleoclimatology, Paleoecology* 208, 85-102.
 - 34) 2004. Muttoni G., Kent D.V., Olsen P.E., DiStefano P., Lowrie W., Bernasconi S., and Hernandez F.M., Tethyan magnetostratigraphy from Pizzo Mondello (Sicily) and correlation to the Late Triassic Newark astrochronological polarity time scale, *Geological Society of America Bulletin* 116, 1043–1058.
 - 35) 2005. Ravazzi C., Pini R., Breda M., Martinetto E., Muttoni G., Chiesa, S., Confortini, S., Egli, R., The lacustrine deposits of Fornaci di Ranica (late Early Pleistocene, Italian Pre-Alps): stratigraphy, palaeoenvironment and geological evolution. *Quaternary International*, 131, 35-58.
 - 36) 2005. Muttoni G., Erba E., Kent D.V., Bachtadse V., Mesozoic Alpine facies deposition as a result of past latitudinal plate motion. *Nature* 434, 59-63.
 - 37) 2005. Muttoni G., Meco, S., and Gaetani M., Carnian-Norian boundary magneto-biostratigraphy from Guri Zi (Albania). *Rivista Italiana di Paleontologia e Stratigrafia* 111/2, 233–245.
 - 38) 2006. Agnini C., Muttoni G., Kent D.V., Rio D., Eocene biostratigraphy and magnetic stratigraphy from Possagno, Italy: The calcareous nannofossil

- response to climate variability. *Earth and Planetary Science Letters* 241, 815-830.
- 39) 2006. Scardia G., Muttoni G., and Sciunnach D., Subsurface magnetostratigraphy in the Po Plain (Italy): temporal constraints on onset of the Ice Ages, erosion, and uplift in the Southern Alps. *Geological Society of America Bulletin* 118/11, 1299-1312.
 - 40) 2007. Muttoni G., Ravazzi C., Breda M., Laj C., Kissel C., Mazaud A., Pini R., and Garzanti E., Magnetostratigraphic dating of an intensification of glacial activity in the southern Italian Alps during Marine Isotope Stage 22. *Quaternary Research* 67, 161-173.
 - 41) 2007. Zanzi A., Pelfini M., Muttoni G., Santilli M., Leonelli G., Spectral analysis on mountain pine tree-ring chronologies. *Dendrochronologia* 24, 145-154.
 - 42) 2007. Angiolini L., Gaetani M., Muttoni G., Stephenson M.H., Zanchi A., Tethyan oceanic currents and climate gradients 300 m.y. ago. *Geology* 35, 1071-1074.
 - 43) 2007. Hounslow, M.W., Szurkies, M., Muttoni, G. and Nawrocki, J., The magnetostratigraphy of the Olenekian-Anisian boundary and a proposal to define the base of the Anisian using a magnetozone datum. *Albertiana* 36, 72-77.
 - 44) 2007. Mietto P., Andreetta R., Broglio Loriga C., Buratti N., Cirilli S., De Zanche V., Furin S., Gianolla P., Manfrin S., Muttoni G., Neri C., Nicora A., Posenato R., Preto N., Rigo M., Roghi G., Spoetl C., A Candidate Of The Global Boundary Stratotype Section And Point For The Base Of The Carnian Stage (Upper Triassic): GSSP at the base of the canadensis Subzone (FAD of Daxatina) in the Prati di Stuores/Stuores Wiesen section (Southern Alps, NE Italy). *Albertiana* 36, 78-97.
 - 45) 2007. Nicora A., Balini M., Bellanca A., Bertinelli A., Bowring S.A., Di Stefano P., Dumitrica P., Guaiumi C., Gullo M., Hungerbuehler A., Levera M., Mazza M., McRoberts C.A., Muttoni G., Preto N., and Rigo M., The Carnian/Norian boundary interval at Pizzo Mondello (Sicani Mountains, Sicily) and its bearing for the definition of the GSSP of the Norian Stage. *Albertiana* 36, 102-115.
 - 46) 2007. Muttoni G. and Kent D.V., Widespread formation of cherts during the early Eocene climatic optimum. *Palaeogeography, Palaeoecology, Palaeoclimatology* 253, 348-362.
 - 47) 2007. Dallanave E., Muttoni G., Analisi paleomagnetica della sezione triassica del Monte San Giorgio. *Geologia Insubrica* 10(2), 21-26.
 - 48) 2008. Kent D.V. and Muttoni G., Equatorial convergence of India and early Cenozoic climate trends. *Proceedings of the National Academy of Sciences*, doi10.1073/pnas.0805382105.
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 - 52) 2009. Scardia, G., Muttoni, G., Paleomagnetic investigations on the Pleistocene lacustrine sequence of Pianico-Sellere (northern Italy). *Quaternary International* 204, 44-53.
 - 53) 2009. Muttoni, G., Gaetani, M., Kent, D. V., Sciunnach, D., Angiolini, A., Berra, F., Garzanti, E., Mattei, M., and Zanchi, A., Opening of the Neo- Tethys Ocean and

- the Pangea B to Pangea A transformation during the Permian. *GeoArabia* 14, 17–48.
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- (111) 2017 Muttoni, G. Magnetostratigraphy. The SAS Encyclopedia of Archaeological Sciences, in press.
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- (119) 2019 Muttoni, G. and Kent, D.V. Adria as promontory of Africa and its conceptual role in the Tethys Twist and Pangea B to Pangea A transformation in the Permian. *Rivista Italiana di Paleontologia e Stratigrafia*, 125(1), 249-269.
- (120) 2019 Maron, M., Muttoni, M., Rigo, M., Gianolla, P., Kent, D.V. New magnetobiostratigraphic results from the Ladinian of the Dolomites and implications for the Triassic geomagnetic polarity timescale. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 517, 52-73, doi.org/10.1016/j.palaeo.2018.11.024.

For the ongoing evaluation of Full Professorship position at the University of Milan, I have selected from the above list of publications, 30 publications (see attached zip files) that I consider representative of my career and scientific achievements. In assembling this list, I considered not only publications where I am first author and/or which had a relevant impact on the scientific community, but also publications where I played a fundamental role as **guide and mentor for PhD students and early career scientists**, as well as **recent publications** that have not yet

accumulated large citation assets but that show where I stand now as far as scientific interests are concerned.

Citations

H-index 37 – 3472 citations (Scopus 2019)

H-index 42 – 4675 citations (Google Scholar 2019)

Non Peer-Reviewed Publications (**OUTREACH**)

Dallanave, E., Muttoni, G. Il segreto del clima è nelle rocce. Darwin 37, 40-45, 2010.

Muttoni G. L'uomo più vecchio d'Italia non è poi così vecchio. Sistema Università, notiziario trimestrale dell'Università degli Studi di Milano 31, p. 10, 2010.

Muttoni G. A Monte Poggiolo 850 mila anni fa. SistemaUniversità, notiziario trimestrale dell'Università degli Studi di Milano, 2011.

Muttoni, Capoccia, Carelli, Di Paola, Terra Pianeta Abitabile Vol. I e II. Tramontana-Rizzoli 2017. TESTO SCOLASTICO DI SCIENZE DELLA TERRA PER LE SECONDARIE SUPERIORI.

Presentations

I have co-authored the following abstracts at international meetings including 6 invited presentations:

1991 Angiolini L., Dragonetti L., Nicora A., Muttoni G. - Geology of Hydra island, Saronic Gulf, Greece. Symposium on Triassic Stratigraphy (Lausanne, Switzerland, 20-23 Ottobre 1991).

1991 Gaetani M., Muttoni G. - Preliminary notes on the High Chitral Geology. 6th Himalaya-Karakorum-Tibet Workshop (Auris en Oisans, F, 20-23 Marzo 1991).

1991 Muttoni G. - Preliminary magnetostratigraphy of Middle Triassic Prezzo Lmst., Stabol Fresco, Southern Alps (Northern Italy). 5th Northeastern Paleomagnetic and Rock Magnetic Workshop (Erindale College, University of Toronto, Canada, 1-2 Novembre 1991).

1994 Muttoni G. - Magnetostratigrafia Triassica. Paleopelagos. (Roma, 6-8 Giugno 1994).

1995 Muttoni G., Kent D.V., Meço S., Nicora A., Balini M., and Gaetani M. - Magneto-biostratigraphy of the Spathian to Anisian (Early to Middle Triassic) Kçira section (Northern Albania). 1995 Spring Meeting, American Geophysical Union (Baltimore, MD 30 Maggio-2 Giugno 1995).

1996 Balini M., Gaetani M., Kent D. V., Muttoni G., Nicora A. - Tethyan Middle Triassic Biomagnetostratigraphy. 56th General Assembly, Italian Geological Society (S. Cassiano, Dolomites, Settembre 1996).

1996 Muttoni G., Kent D. V. and Channell J. E. T. - Evolution of Pangea: paleomagnetic constraints from the Southern Alps, Italy. 21th General Assembly, European Geophysical Society (The Hague, NL, 6-11 Maggio 1996).

1997 Muttoni G., Argnani A., Kent D. V., Abrahamsen N. and Cibin U. - Paleomagnetic Evidence for Tectonic Rotations in the Northern Apennines (Italy). 22th General Assembly, European Geophysical Society (Wien, 1997).

1997 Muttoni G., Kent D.V., Meço S., Nicora A., Balini M., and Gaetani M. - The Ndelysaj section (Albania) and the Dont-Monte Rite section (Dolomites): Improved Definition of the Middle Triassic Magnetostratigraphy and Biostratigraphy in the Tethys Realm. 1997 Fall Meeting, American Geophysical Union (San Francisco, CA).

1998 Broglio Loriga, C, Cirilli, S, De Zanche, V, di Bari, D, Gianolla, P, Laghi G.F, Manfrin, S, Mastandrea, A, Mietto, P, Muttoni, G, Neri, C, Posenato, R, Rechichi M., Rettori, R & Roghi., G. - A proposal for the re-definition of the Ladinian/Carnian boundary: the Prati di Stuores/Stuores Wiesen section (Dolomites, Italy). International Symposium on the Epicontinental Triassic Halle/Saale, Germany, Sep 21-23, 1998.

1998 Channell J. E. T., Muttoni G. - Paleomagnetism and Paleogeography in the Mediterranean (comunicazione a invito). 23th General Assembly, European

- Geophysical Society (Nice, F, 20-24 Aprile 1998).
- 1998 Muttoni G., Kent D.V., Di Stefano P., Gullo M., Tait J. - Magnetostratigraphy and biostratigraphy of an expanded Carnian/Norian boundary Tethyan marine section from Sicily (Italy). 79a Riunione Estiva della Società Geologica Italiana (Palermo 21-23 settembre 1998).
- 1998 Muttoni G., Lanci L., Argnani A., Abrahamsen N., Cibin U., Hirt A. and Lowrie W. - Paleomagnetism in the Northern Apennines (comunicazione a invito). 23th General Assembly, European Geophysical Society (Nice, F, 20-24 Aprile 1998).
- 1999 Muttoni, G. - Paleomagnetic constraints on the evolution of Pangea. Kolloquien WS 98/99 ETH- Hönggerberg Hörsaal HPP H3, 15. (Zuerich, Switzerland, Januar 1999).
- 1999 Muttoni, G., Kent, D. V., Di Stefano, P., Gullo, M., Nicora, A., Tait, J., Lowrie, W. - Magnetostratigraphy and Biostratigraphy of the Carnian/Norian Boundary Interval from the Pizzo Mondello Section (Sicily). 1999 Fall Meeting, American Geophysical Union (San Francisco, CA).
- 2000 Ravazzi, C., Breda, M., Chiesa, S., Confortini, F., Egli, R., Gandossi, M., Malzanni, M., Martinetto, E., Muttoni, G., Paganoni, A., Pini, R., Rista, C. - The lacustrine succession of Ranica (Early Middle Pleistocene, Italian pre-Alps): multidisciplinary stratigraphy and basin evolution. ' The Plio-Pleistocene boundary and the low/middle Pleistocene transition: type areas and sections '. INQUA-SEQS. (Bari, September 25-29, 2000).
- 2002 Muttoni G., Kent D.V., Abrahamsen N., Brack, P. - Geological evidences for Late Paleozoic intra-Pangea dextral shear. 27th General Assembly, European Geophysical Society (Nice, F, 22 – 26 April 2002).
- 2002 Muttoni G., Nicora A., Kent, D.V., Di Stefano P., Lowrie, W. - Late Triassic magneto-biostratigraphy from Sicily. 27th General Assembly, European Geophysical Society (Nice, F, 22 – 26 April 2002).
- 2002 Breda M., Chiesa S., Confortini F., Egli R., Malzanni M., Martinetto, E., Muttoni G., Pini R., Ravazzi C., Paganoni A. - The lacustrine succession of Fornaci di Ranica (N-Italy): evidences of the oldest-known episode of cold-climate vegetation south of the Alps . 6 th European Paleobotany-Palynology Conference. (Athens, 29 Agosto-2 Settembre 2002). Book of abstracts: 60-61.
- 2003 Muttoni, G. et al. - Early Permian Pangea B to Late Permian Pangea A. Chapman Conference on Timescales of the Geomagnetic Field, University of Florida (Gainesville, Florida, 9-11 March 2003).
- 2003 Muttoni, G., Carcano, C., Garzanti, E., Ghielmi, M., Piccin, A., Pini, R., Rogledi, S., Sciunnach, D. – Onset of major Pleistocene glaciation in the Alps. EGS-AGU-EUG Joint Assembly (Nice, F, 7 – 11 April 2003).
- 2003 Muttoni, G., Kent, D. V. Millennial-scale cycles at Latemar. EGS-AGU-EUG Joint Assembly (Nice, F, 7 – 11 April 2003).
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- 2003 Muttoni, G., Kent, D.V., Olsen, P.E., Bernasconi, S., Lowrie, W., Martín Hernández, F., Di Stefano, P. – Tethyan magnetostratigraphy from Pizzo Mondello and correlation to the Late Triassic Newark APTS. EGS-AGU-EUG Joint Assembly (Nice, F, 7 – 11 April 2003).
- 2003 Pini, R., Carcano, C., Garzanti, E., Ghielmi, M., Muttoni, G., Piccin, A., Rogledi, S., Sciunnach, D. - Evidenzen della prima maggiore avanzata glaciale pleistocenica dai pozzi della Pianura Padana: il record di Pianengo. FIST Geoitalia 2003 – 4° Forum Italiano di Scienze della Terra (Bellaria, 16-18 Settembre 2003). Volume degli abstract: 121-122.
- 2004 Pini, R., Carcano, C., Garzanti, E., Ghielmi, E., Muttoni, G., Piccin A., Rogledi S., Sciunnach D. - Stratigraphic evidence for a major climate change during MIS22: the Pianengo core (Po plain, Northern Italy). 32nd International Geological Congress (Firenze, 20-28 agosto 2004). Abstract volume, part 1: 392.

- 2004 Ravazzi, C., Breda M., Muttoni G., Pini R. - The Pliocene – Early Pleistocene stratigraphy and chronology of the Lefte Basin (Pre-Alps, northern Italy). 18th International Senckenberg Conference 2004 (Weimar, Germany, 25-30 Aprile 2004). *Terra Nostra*, 2004/2, 213-214.
- 2004 Ravazzi, C., Pini, R., Muttoni, G. - The Early Pleistocene vegetation history of the Alps in the complete pollen diagram of Lefte (Lombardian Pre-Alps, Northern Italy). 32nd International Geological Congress (Firenze, 20-28 agosto 2004).
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- 2006 Muttoni, G.; Kent, D.V. Chert formation during the Early Eocene Climatic Optimum. EGU06
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- 2007 Muttoni, G.; Kent, D.V. Chert formation during the Early Eocene Climatic Optimum - AGU2007 Fall meeting.
- 2008 Kent, D.V. & Muttoni, G. Equatorial Convergence of India and Early Cenozoic Climate Trends. **Invited talk**. AGU 2008 Fall Meeting.
- 2008 Muttoni et al., Neotethys Opening and the Pangea Transformation During the Permian. AGU 2008 Fall Meeting.
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- 2009 Muttoni G. et alii, The drift History of Iran from the Ordovician to the Triassic. **Invited talk**. AGU 2009 Spring Meeting, Toronto Canada.
- 2009 Dallanave, Tauxe & Muttoni. Magnetic characterization of the late Paleocene–early Eocene Cicogna section (NE Italy): climate forcing on sedimentation. AGU 2009 Fall Meeting San Francisco.
- 2009 Uwe Kirscher, Valerian Bachtadse, Katharina Aubele, Giovanni Muttoni. New paleomagnetic data from Jurassic Sediments from Sardinia. AGU 2009 Fall Meeting San Francisco.
- 2009 E. Dall'Olio, F. Felletti & G. Muttoni. 27th IAS Meeting of Sedimentologists - Alghero (Italy) [20-23 settembre 2009] Anisotropy of Magnetic Susceptibility (AMS): an objective method to define provenance direction of flow in turbiditic systems (NORTHERN APENNINES, ITALY).
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- 2011 A. Baucon, M. Belvedere, S. Furin, F. Felletti, G. Muttoni, P. Mietto (2011). ICHNOBASE: the first ichnological database.. In: Abstracts, 28th IAS Meeting of Sedimentology, Zaragoza, Spain. Zaragoza, 2011, IAS, ISBN: 978-84-615-1755-8
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- 2011 Edoardo Dallanave, Claudia Agnini, Giovanni Muttoni, and Domenico Rio. Magneto-biostratigraphy and rock-magnetism of the late Cretaceous-late Paleocene Ardo section (Belluno Basin, NE Italy). EGU General Assembly 2011 Vienna.
- 2011 A. Baucon, F. Felletti, G. Muttoni (2011). Ichnology of modern bacterial-algal mats: Grado-Marano lagoon, Italy. In: Abstracts, 28th IAS Meeting of Sedimentology. Zaragoza, 2011, p. 370, IAS, ISBN: 978-84-615-1755-8
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- 2011 E. Dall'Olio, F. Felletti, G. Muttoni, M. Zucali. Integrated AMS and textural analyses as objective tools to define paleocurrent directions in turbidite beds. American Geophysical Union, Fall Meeting 2011, abstract #GP11A-1014
- 2012 Giovanni Muttoni; Edoardo Dallanave. Paleocene–Eocene magnetostratigraphy and climate-driven rock-magnetism from the Belluno Basin (Italy) (**Invited**) AGU Fall Meeting 2012, abstract # GP12A-02.
- 2012 Edoardo Dallanave; Valerian Bachtadse; Claudia Agnini; Giovanni Muttoni; Christopher J. Hollis; Hugh E. Morgans; James S. Crampton. Early–middle Eocene chronology of the Southern Ocean: magnetostratigraphic data from the South Island of New Zealand. AGU Fall Meeting 2012, abstract #GP12A-03.
- 2012 Dennis V. Kent; Giovanni Muttoni; Jeffrey S. Gee; Bruce A. Kjarsgaard. Chasing the Late Jurassic APW Monster Shift in Ontario Kimberlites. AGU Fall Meeting 2012, abstract #T34C-01.
- 2013 G. Muttoni. The Africa-Adria Apparent Polar Wander Path and its implications for Pangea paleogeography. European Geophysical Society, Vienna 2013
- 2014 G.Muttoni. The Importance of Age Control in Defining Apparent Polar Wander Paths of Fast Moving Plates: The Jurassic Case Study. AGU Fall Meeting 2014, **Invited talk**.
- 2014 D.V. Kent, P. Olsen, G. Muttoni. Current Status of the Late Triassic and Early Jurassic APTS from Continental Sediments and Correlation with Standard Marine Stages. AGU Fall Meeting 2014.
2014. S.E. Gilardoni, E. Erba, C.E. Casellato, M. Balini, G. Muttoni. Lithogenic importance of calcareous nannofossils in the Late Triassic the case of the Pizzo Mondello section (Monti Sicani, Sicily). / - In: RENDICONTI ONLINE DELLA SOCIETÀ GEOLOGICA ITALIANA. - ISSN 2035-8008. - (2014 Sep). (Intervento presentato al convegno SGI-SIMP 2014 "The future of the Italian geoscientist – The Italian Geoscientist of the future" tenutosi a Milano (I) nel 2014.
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- 2015 Muttoni G., Kent D. V., Scardia, G. The Jaramillo Bottleneck for Migration of Hominins with Megaherbivores Into Europe via the Danube-Po Gateway. American Geophysical Union, Fall Meeting 2015, abstract id. GP43D-01
- 2016 A Pellizzone, A Allansdottir, A Manzella, R De Franco, G Muttoni. Geothermal Energy, Social

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- 2017 Satolli, S., Muttoni, G., Di Ciencio, A., Lanci, L. Rock magnetic record of the Karoo-Ferrar effect on sediments: Timing and duration of the environmental change (Monte Serrone section, Northern Apennines, Italy) (**Invited**). American Geophysical Union, Fall Meeting 2017
- 2017 E Monesi, G Muttoni, N Sirakov, DV Kent, JL Guadelli, G Scardia. Insights on the first peopling of Europe from magnetostratigraphy of the Pleistocene lithic tool-bearing Kozarnika cave sediments, Bulgaria. AGU Fall Meeting 2017
- 2017 Satolli, S., Muttoni, G., Di Ciencio, A., Lanci, L. Rock magnetic record of the Karoo-Ferrar effect on sediments: Timing and duration of the environmental change (Monte Serrone section, Northern Apennines, Italy). **Invited talk**, AGU 2017 Fall Meeting.
- 2019 Muttoni, G. and Kent, D.V., Jurassic monster polar shift confirmed by sequential paleopoles from Adria, promontory of Africa. EGU General Assembly 2019.
- 2019 Kent, D.V and Muttoni, G. Waning of the Late Paleozoic Ice Age and the Pangea B to Pangea A Transformation in the Permian. EGU General Assembly 2019.
- 2017 Satolli, S., Muttoni, G., Di Ciencio, A., Lanci, L. Rock magnetic record of the Karoo-Ferrar effect on sediments: Timing and duration of the environmental change (Monte Serrone section, Northern Apennines, Italy). **Invited talk**, AGU 2017 Fall Meeting.

ACHIEVEMENTS

Listed in Academic Commons, Columbia University
Listed in Marquis who's is who

MEMBERSHIPS

Member of the American Geophysical Union.
Member of the European Geosciences Union
Member of the Italian Geological Society
Member of the Italian State board of registered professional geologists (discontinued).

Data

21/06/2019

Luogo

MILANO