

Curriculum Vitae

Luca Colombera

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POSIZIONI ATTUALI E PRECEDENTI

- 09/2022 - Attuale **Ricercatore a Tempo Determinato Tipo B** | Università di Pavia
PI, 'Fluvial, Eolian & Shallow-Marine Research Group'
<https://frg.leeds.ac.uk/>
Research Associate, 'Turbidites Research Group'
<https://trg.leeds.ac.uk/>
- 12/2019 - 08/2022 **Senior Research Fellow** | University of Leeds, GB
- 09/2013 - 12/2019 **Research Fellow** | University of Leeds, GB

TITOLI & FORMAZIONE UNIVERSITARIA

- 11/2020 **Abilitazione Scientifica Nazionale** - Professore di II fascia GEO/02
- 07/2010 - 08/2013 **PhD** in sedimentologia fluviale | University of Leeds, GB
Menzione speciale per eccellenza nella ricerca
Titolo Tesi: *A database for the digitization of the sedimentary architecture of fluvial systems: uses in pure and applied research.*
Relatori: Prof. Nigel P. Mountney, Prof. William D. McCaffrey
- 11/2007 - 02/2010 **Laurea Magistrale** in Geologia | Università degli Studi di Milano
Voto finale: 110/110 e lode
Curriculum di specializzazione: Geologia del sedimentario
Semestre Erasmus presso la Vrije Universiteit di Amsterdam, Paesi Bassi
- 10/2004 - 11/2007 **Laurea Triennale** in Scienze geologiche | Università degli Studi di Milano
Voto finale: 110/110 e lode

ATTIVITÀ DI RICERCA

Campi di ricerca principali: sedimentologia, stratigrafia, geomorfologia, geologia di sottosuolo, modellazione numerica e geostatistica di successioni sedimentarie.

Il sottoscritto conduce ricerca nell'ambito della geologia del sedimentario, sia fondamentale che applicata, concentrandosi in particolare sulla sedimentologia e stratigrafia fisica e sequenziale di sistemi clastici continentali e marini. Ha esperienza di lavoro su sistemi clastici alluvionali, eolici, lacustri e di mare basso e profondo. I temi di ricerca vengono affrontati con diversi approcci metodologici e lavorando con diversi tipi di dati geologici. Ha esperienza in studi di terreno di successioni fossili affioranti, nell'analisi di dati di sottosuolo (geofisici, petrofisici e di carota) da acquiferi e reservoir di idrocarburi e geotermici, nella caratterizzazione geomorfologica di ambienti deposizionali clastici attuali (con dati di terreno e da *remote sensing*), nell'applicazione di metodi geostatistici e tecniche di analisi geospaziale, nello sviluppo e utilizzo di *forward model* stratigrafici e nella meta-analisi di *legacy data*.

PROGETTI DI RICERCA PER BANDI COMPETITIVI CON PEER REVIEW

Proposte di ricerca finanziate

- 2023 Assegnatario del fondo PRIN 2022 PNRR, con il progetto intitolato "*Modelling subsurface architectures and heat transfer in deep saline aquifers: hybrid geothermal plays of the Po Valley*". Ruolo: autore del progetto e Principal Investigator. Valore: €231.349. Durata: 24 mesi.
- 2016 Assegnatario del fondo 'Follow-on Fund' NE/N017218/1, elargito dal Natural Environment Research Council del Regno Unito (NERC), con il progetto intitolato "*Database technology for geological modelling of hydrocarbon reservoirs*". Ruolo: autore del progetto e co-investigatore. Valore: £98.000. Durata: 12 mesi.
- 2015 Assegnatario del fondo 'Catalyst Fund' NE/M007324/1, elargito dal Natural Environment Research Council del Regno Unito (NERC), con il progetto intitolato "*Knowledge to application: metadata approaches to improved geological model conditioning in petroleum industry workflows*". Ruolo: ricercatore incaricato. Valore: £69.000. Durata: 12 mesi.

ATTIVITÀ DIDATTICA ACCADEMICA

Insegnamento di corsi universitari

Dall'A.A. 2024/25 tiene il corso '**Gestione Sostenibile del Patrimonio Geologico**', presso l'Università di Pavia, nell'ambito del corso di Laurea Magistrale in Scienze della Natura. 6 crediti formativi.

Dall'A.A. 2023/24 tiene il corso '**Applied Sedimentology and Sequence Stratigraphy**', presso l'Università di Pavia, nell'ambito del corso di Laurea Magistrale in Geoscienze per lo Sviluppo Sostenibile. 6 crediti formativi.

Dall'A.A. 2022/23 tiene il corso '**Relational databases for the natural sciences and SQL**

programming', presso l'Università di Pavia, nell'ambito del corso di Dottorato in Scienze della Terra ed Ambientali. 4 crediti formativi.

Dall'A.A. 2022/23 tiene il corso **'New Perspectives on Energy for Sustainable Growth'**, presso l'Università di Pavia, nell'ambito dell'iniziativa "Office for Sustainable Actions SDGs Courses". 1 credito formativo.

Dall'A.A. 2013/14 fino all'A.A. 2020/21 ha tenuto il corso di terreno **'Petroleum Reservoir Architectures/North Sea Reservoir Analogues'**, presso la University of Leeds, nell'ambito di corsi di Laurea Triennale (BSc) e Magistrale (MSc) in scienze geologiche, ingegneria del petrolio, e geofisica | Area di lavoro: Yorkshire (GB); durata del corso: 8 giorni. Il corso di terreno si concentra sullo studio di successioni sedimentarie clastiche e carbonatiche mesozoiche. 10 crediti formativi ECTS.

Dall'A.A. 2019/20 fino all'A.A. 2020/21 ha tenuto il corso **'Petroleum Geoscience Case Studies'**, presso la University of Leeds, nell'ambito dei corsi di Laurea Magistrale (MSc) in geofisica per l'esplorazione del sottosuolo ed ingegneria del petrolio. Lezioni frontali e laboratorio di interpretazione geologica. 15 crediti formativi ECTS.

Nell'A.A. 2019/20 ha tenuto il corso **'Production Geosciences'**, presso la University of Leeds, nell'ambito del corso di Laurea Triennale (BSc) in ingegneria del petrolio. Lezioni frontali e laboratorio di caratterizzazione geologica del sottosuolo. 10 crediti formativi ECTS.

Assistenza a corsi universitari

Dall'A.A. 2010/11 fino all'A.A. 2012/13 ha prestato servizio come assistente per i corsi **'Sedimentology and Stratigraphic Principles and Maps'** e **'Sedimentary Basins and Hydrocarbon Resources'**, nell'ambito di corsi di Laurea Triennale (BSc) in scienze geologiche ed ingegneria del petrolio. Lezioni frontali e laboratori. | Titolare del corso: Prof. Nigel Mountney.

Lezioni seminariali in altri istituti

Applications of geological analogues to the characterization of subsurface alluvial successions. Centre d'Hydrogéologie et de Géothermie, Université de Neuchâtel, Neuchâtel (Svizzera). Marzo 2020.

Supervisione studenti

09/2013 - Attuale Relatore (Supervisor) o correlatore (Co-supervisor) di Tesi di **Dottorato di Ricerca (PhD)** e di **Master di Ricerca (MPhil)** | University of Leeds, GB.

- 1) Catherine E. Burns, 2017; *Quantitative prediction of stratigraphic architecture in fluvial overbank successions*. **PhD**. Correlatore.
- 2) Catherine E. Russell, 2017; *Prediction of sedimentary architecture and lithological heterogeneity in fluvial point-bar deposits*. **PhD**. Correlatore.
- 3) Sophie Cullis, 2019; *Quantitative characterisation and prediction of deep-marine sedimentary architecture and facies heterogeneity through relational databasing*. **PhD**. Correlatore.

- 4) Ru Wang, 2020; *Quantitative analysis of geological controls on incised-valley-fill geometry and stratigraphic architecture*. **PhD**. Relatore.
- 5) David J.P. Somerville, 2021; *Fluvial and alluvial system response to rift basin evolution*. **PhD**. Correlatore.
- 6) Bassam Alshammari, 2021; *Sedimentology and stratigraphic architecture of fluvial to shallow marine deposits*. **MPhil**. Correlatore.
- 7) Daniel E. Tek, 2021; *Autogenic versus allogenic controls on deep-water channel evolution*. **PhD**. Correlatore.
- 8) Jose M. Montero, 2023; *Application of quantitative analysis of fluvial sedimentary architecture to improve facies and reservoir modelling workflows*. **PhD** (part-time). Relatore.
- 9) Laura Bührig, 2024; *A database-informed approach to the construction of quantitative sedimentological facies and source-to-sink models*. **PhD**. Correlatore.
- 10) Felipe Gallardo Ceron, in corso; *Subsurface modelling for prediction of radioactive contaminant transport*. **PhD**. Correlatore.

10/2018 - Attuale

Supervisore di **visiting PhD students** | University of Leeds, GB.

- 1) Marta Cosma, 2018 (2 mesi); Università di Padova.
- 2) Marina Coronel, 2018 (3 mesi); Universidad Nacional de La Plata, Argentina.
- 3) Wei Li, 2019-2020 (12 mesi); China University of Petroleum - Beijing, Cina.
- 4) Yue Zhang, 2020-2021 (12 mesi); China University of Petroleum - Beijing, Cina.
- 5) Lei Ye, 2021-2022 (12 mesi); China University of Petroleum - Beijing, Cina.
- 6) Ke Yang, 2022-2023 (12 mesi); China University of Petroleum - Beijing, Cina.

10/2018 - Attuale

Relatore o Correlatore di **Tesi di Laurea Magistrale**.

- 1) Elisabetta Bosi, 2019; *Tenori di fondo di arsenico in depositi olocenici della Pianura Padana*. Università di Bologna. Correlatore.
- 2) Ilaria Menga, 2022; *Analyzing and modeling the sedimentological heterogeneity of the main aquifer of the upper Aar valley (Switzerland)*. Università degli Studi di Milano. Correlatore.

3) Simone Cerea, 2023; *An innovative multi-scale approach for modelling subsurface turbidite deposits based on digital cores and outcrop analogue*. Università di Pavia. Relatore.

03/2018 - 08/2023 Supervisore di tirocinanti **Erasmus+**; Elisabetta Bosi; Soma Budai (University of Leeds, GB); Andréa Morel (Università di Pavia).

04/2022 - Attuale Esaminatore esterno di **Tesi di Dottorato**.

1) Marcus V. T. Soares. *Distribuição de sedimentos e paleossolos em antigos sistemas fluviais distributivos: proxies para interpretações paleoambientais e estratigráficas*. Universidade Estadual de Campinas, Brasile. 2022.

2) Ludovic Schorpp. *Data integration and automated geological modeling of Quaternary aquifers*. Université de Neuchâtel, Svizzera. 2024.

PREMI E RICONOSCIMENTI

2018 Gabriel Dengo Award 2018 | American Association of Petroleum Geologists

2014 Menzione speciale per eccellenza nella ricerca | University of Leeds

2014 Gustavo Sclocchi PhD Thesis Award 2014 | SPE/EAGE/Assomineraria

2010 Premio di Laurea Magistrale | CIDI5, Università degli Studi di Milano

ALTRE ATTIVITÀ ACCADEMICHE

Associate Editor per *Marine and Petroleum Geology* (2018-attuale).

Guest Editor per il volume speciale 48 della serie *Special Publications of the International Association of Sedimentologists*, dal titolo 'Fluvial meanders and their sedimentary products in the rock record' (2019).

Revisore di articoli scientifici su riviste internazionali e volumi speciali, tra cui: *Geology*, *Sedimentology*, *Journal of Sedimentary Research*, *Sedimentary Geology*, *Geophysical Research Letters*, *Journal of Geophysical Research: Earth Surface*, *Earth and Planetary Science Letters*, *Earth-Science Reviews*, *Geological Society of America Bulletin*, *Journal of the Geological Society*, *Basin Research*, *Marine Geology*, *Marine and Petroleum Geology*, *AAPG Bulletin*, *Geomorphology*, *Computers & Geosciences*, *The Depositional Record*, *Frontiers in Earth Science*, *Hydrogeology Journal*, *Bulletin of Geosciences*, *Interpretation*, *Applied Geography*, *SoftwareX*, *South African Journal of Geology*, *Arabian Journal of Geosciences*, *Latin American Journal of Sedimentology and Basin Analysis* e *Geological Society of London Special Publications*.

Organizzatore della conferenza 'SEPM Parasequences Research Conference', 9-12 ottobre 2023, Green River, Utah (USA).

Membro del comitato scientifico della 12th International Conference on Fluvial Sedimentology (2-7 luglio 2023, Riva del Garda).

Organizzatore di sessioni scientifiche a conferenze internazionali:

Terrestrial depositional systems (AAPG/SEPM) | AAPG Annual Convention and Exhibition 2015 (31 maggio-3 giugno 2015, Denver, USA);

Fluvial meanders and their sedimentary products in the fossil record | 32nd IAS Meeting of Sedimentology (23-25 maggio 2016, Marrakesh, Marocco);

Controls on channel architecture and reservoir connectivity | 11th International Conference on Fluvial Sedimentology (17-21 luglio 2017, Calgary, Canada);

Fluvial facies models: recent and future developments | 20th International Sedimentological Congress (13-17 agosto 2018, Québec City, Canada);

Sedimentary heterogeneity controls on fluid flow in aquifers and hydrocarbon reservoirs | 34th IAS Meeting of Sedimentology, (10-13 settembre 2019, Roma);

Sedimentary processes, stratal architecture and stratigraphy of alluvial systems | 34th IAS Meeting of Sedimentology, (10-13 settembre 2019, Roma);

Characterization of subsurface sedimentary architectures | 21st International Sedimentological Congress (22-26 agosto 2022, Pechino, Cina);

Alluvial systems at the interface with other environments | 12th International Conference on Fluvial Sedimentology (2-7 luglio 2023, Riva del Garda).

Organizzatore del corso di terreno *Fluvial sedimentary architectures and palaeosols of the Paleogene of the Tremp-Graus Basin (Spanish Pyrenees)* per la conferenza: 12th International Conference on Fluvial Sedimentology (luglio 2023).

Organizzatore del workshop *Geostatistical and modelling methods in the characterization of alluvial deposits* per la conferenza: 12th International Conference on Fluvial Sedimentology (luglio 2023).

Revisore di proposte di progetti per enti finanziatori:

American Chemical Society Petroleum Research Fund | New Directions Grant 2018;

American Chemical Society Petroleum Research Fund | Doctoral New Investigator 2021;

American Chemical Society Petroleum Research Fund | New Directions Grant 2022.

Membro del Collegio Docenti per la Scuola di Dottorato del Dipartimento di Scienze della Terra e dell'Ambiente | Università di Pavia

COMMERCIALIZZAZIONE DI PROPRIETÀ INTELLETTUALE

Inventore e stakeholder principale | Contratto di licenza (licensing agreement) per la commercializzazione di database contenenti dati sedimentologici da analoghi geologici per reservoir di idrocarburi (*Ava Clastics*, marchio commerciale di Petrotechnical Data Systems).

ATTIVITÀ DI CONSULENZA

Consulenze scientifiche fornite a compagnie operanti nel settore dell'*oil & gas*, tra le quali: AkerBP (2021), ConocoPhillips (2012), Nexen-CNOOC (2017), OMV (2018), Petrotechnical Data Systems (2016-2021), Salym Petroleum Development/Shell (2017), Tullow Oil (2014-2015), Woodside (2013-2021), YPF (2014-2020).

INDICATORI BIBLIOMETRICI (*SCOPUS*) aggiornati al 18 aprile 2024.

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PUBBLICAZIONI SOTTOPOSTE A PEER REVIEW

1. Yan N., Colombera L., Cosgrove G.I.E., & Mountney N.P. (2024) A 3D forward stratigraphic model of aeolian dune evolution for prediction of lithofacies heterogeneity. *Computers & Geosciences*, 187, art. 105594.
2. Budai S., Willems C.J.L., Colombera L., & Westaway R. (2024) Influence of sedimentary architecture on static connectivity and geothermal doublet performance (Mezőberény, SE Hungary). *Marine and Petroleum Geology*, 164, art. 106820.
3. Pouraskarparast Z., Aghaei H., Colombera L., Masoero E., & Ghaedi M. (2024) Fracture aperture: a review on fundamental concepts, estimation methods, applications, and research gaps. *Marine and Petroleum Geology*, 164, art. 106818.
4. McArthur A.D., Tek D.E., Poyatos-Moré M., Colombera L., & McCaffrey W.D. (2024) Deep-ocean channel-wall collapse order of magnitude larger than any other documented. *Communications Earth & Environment*, 5, art. 143.
5. Pang J., Colombera L., Mountney N.P., Wu S., Guo J., Yang K., & Li W. (2024) Mapping palaeoshorelines of river-dominated deltas in lacustrine ramp settings: application of sedimentological analyses to the Triassic Yanchang Formation (Ordos Basin, China). *Marine and Petroleum Geology*, 164, art. 106797.
6. Basilici G., Lorenzoni P., Mesquita Á.F., Janočko J., Colombera L., Cosgrove G.I.E., Mountney N.P., de Souza Filho C.R., Cardoso A.R., Martinelli A.G., Fiorelli L.E., Vásconez Garcia R.G., da Silva Marinho T., & Marconato A. (2024) Can palaeosols reveal palaeoenvironmental variability of fluvial systems? An example from the upper portion of the Bauru Group (Upper Cretaceous, SE Brazil). *Sedimentary Geology*, 464, art. 106604.
7. Wang R., Kim W., Colombera L., Mountney N.P., Lee Y.H., & Lee J.H. (2024) Autogenic evolution of valley-confined deltas during sea-level rise: insights from numerical and physical modelling. *Sedimentology*, in press.
8. Cosgrove G.I.E., Colombera L., & Mountney N.P. (2024) The Precambrian continental record: A window into early Earth environments. *Precambrian Research*, 402, art. 107286.
9. Colombera L., Reesink A.J.H., Duller R.A., Jeavons V.A., & Mountney N.P. (2024) The thickness variability of fluvial cross-strata as a record of dune disequilibrium and palaeohydrology proxy: A test against channel deposits. *Sedimentology*, 71, 590-618.
10. Yan N., Colombera L., & Mountney N.P. (2024) Sediment preservation and accretion rates of fluvial meander-belt deposits: variations with temporal scale and river size. In: Finotello

- A., Durkin P., & Sylvester Z. (eds.) *Meandering Streamflows: Patterns and Processes across Landscapes and Scales*. Geological Society, London, Special Publications, 540, in press.
11. Yang K., Zhu X., **Colombera L.**, McArthur A., Mountney N.P., Zhu S., Jin L., Shen T., Yang H., Chen H., Xie S., & Jin X. (2023) Sediment provenance and dispersal in the early Eocene Dongying Depression, Bohai Bay Basin, Eastern China: evidence from detrital zircon geochronology, geochemistry and petrology. *Sedimentary Geology*, 454, art. 106453.
 12. Li W., Yue D., **Colombera L.**, Duan D., Long T., Wu S., & Liu Y. (2023) A novel method for seismic-attribute optimization driven by forward modeling and machine learning in prediction of fluvial reservoirs. *Geoenery Science and Engineering*, 227, art. 211952.
 13. Cosgrove G.I.E., **Colombera L.**, Mountney N.P., Basilici G., Mesquita Á.F., & Soares M.V.T. (2023) Precambrian aeolian systems: A unique record?. *Precambrian Research*, 392, art. 107075.
 14. **Colombera L.**, & Mountney N.P. (2023) Downstream Controls on Coastal Plain River Avulsions: A Global Study. *Journal of Geophysical Research: Earth Surface*, 128, e2022JF006772.
 15. Cosgrove G.I.E., **Colombera L.**, & Mountney N.P. (2023) Quantitative analysis of aeolian stratigraphic architectures preserved in different tectonic settings. *Earth-Science Reviews*, 237, art. 104293.
 16. Li W., **Colombera L.**, Yue D., & Mountney N.P. (2023) Controls on the morphology of braided rivers and braid bars: An empirical characterization of numerical models. *Sedimentology*, 70, 259-279.
 17. Bührig L.H., **Colombera L.**, Patacci M., Mountney N.P., & McCaffrey W.D. (2022) A global analysis of controls on submarine-canyon geomorphology. *Earth-Science Reviews*, 233, art. 104150.
 18. **Colombera L.**, & Mountney N.P. (2022) Scale dependency in quantifications of the avulsion frequency of coastal rivers. *Earth-Science Reviews*, 230, art. 104043.
 19. Bührig L.H., **Colombera L.**, Patacci M., Mountney N.P., & McCaffrey W.D. (2022) Tectonic influence on the geomorphology of submarine canyons: implications for deep-water sedimentary systems. *Frontiers in Earth Science*, 10, art. 836823.
 20. Basilici G., **Colombera L.**, Soares M.V.T., Arévalo O.J., Mountney N.P., Lorenzoni P., de Souza Filho C.R., Mesquita Á.F., & Janočko J. (2022) Variations from dry to aquatic conditions in vertisols (Esplugafreda Formation, Eastern Pyrenees, Spain): Implications for late Paleocene climate change. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 595, art. 110972.
 21. Arévalo O.J., **Colombera L.**, Mountney N.P., Basilici G., & Soares M.V.T. (2022) Variations in water discharge at different temporal scales in a mud-prone alluvial succession: The Paleocene-Eocene of the Tremp-Graus Basin, Spain. *Sedimentary Geology*, 433, art. 106122.
 22. Cosgrove G.I.E., **Colombera L.**, & Mountney N.P. (2022) Eolian stratigraphic record of environmental change through geological time. *Geology*, 50, 289-294.
 23. Cosgrove G.I.E., **Colombera L.**, & Mountney N.P. (2022) The role of subsidence and accommodation generation in controlling the nature of the aeolian stratigraphic record. *Journal of the Geological Society*, 179, art. jgs2021-042.
 24. Tek D.E., McArthur A.D., Poyatos-Moré M., **Colombera L.**, Allen C., Patacci M., & McCaffrey W.D. (2022) Controls on the architectural evolution of deep-water channel overbank

sediment wave fields: insights from the Hikurangi Channel, New Zealand. *New Zealand Journal of Geology and Geophysics*, 65, 141-178.

25. Budai S., **Colombera L.**, & Mountney N.P. (2021) Quantitative characterization of the sedimentary architecture of Gilbert-type deltas. *Sedimentary Geology*, 426, art. 106022. *Invited review paper.*
26. Zhang Y., **Colombera L.**, Mountney N.P., Gao C., Ji Y., Wu H., Liu D., Bai D., & Song W. (2021) Sedimentation of open-framework gravels in alluvial-fan settings: Quaternary Poplar Fan, northwest China. *Marine and Petroleum Geology*, 134, art. 105376.
27. Mesquita Á.F., Basilici G., Soares M.V.T., Janočko J., Mountney N.P., **Colombera L.**, & de Souza Filho C.R. (2021) Hybrid dry-wet interdune deposition in Precambrian aeolian systems: Galho do Miguel Formation, SE Brazil. *Sedimentary Geology*, 425, art. 106007.
28. Yan N., **Colombera L.**, & Mountney N.P. (2021) Evaluation of morphodynamic controls on the preservation of fluvial meander-belt deposits. *Geophysical Research Letters*, 48, e2021GL094622.
29. Tek D.E., McArthur A.D., Poyatos-Moré M., **Colombera L.**, Patacci M., Craven B., & McCaffrey W.D. (2021) Relating seafloor geomorphology to subsurface architecture: how mass-transport deposits and knickpoint-zones build the stratigraphy of the deep-water Hikurangi Channel. *Sedimentology*, 68, 3141-3190.
30. Alshammari B., Mountney N.P., **Colombera L.**, & Al-Masrahy M.A. (2021) Sedimentology and stratigraphic architecture of a fluvial to shallow-marine succession: the Jurassic Dhurma Formation, Saudi Arabia. *Journal of Sedimentary Research*, 91, 773-794.
31. **Colombera L.**, & Mountney N.P. (2021) Influence of fluvial crevasse-splay deposits on sandbody connectivity: lessons from geological analogues and stochastic modelling. *Marine and Petroleum Geology*, 128, art. 105060.
32. Basilici G., Mesquita Á.F., Soares M.V.T., Janočko J., Mountney N.P., & **Colombera L.** (2021) A Mesoproterozoic hybrid dry-wet aeolian system: Galho do Miguel Formation, SE Brazil. *Precambrian Research*, 359, art. 106216.
33. Cosgrove G.I.E., **Colombera L.**, & Mountney N.P. (2021) Quantitative analysis of the sedimentary architecture of eolian successions developed under icehouse and greenhouse climatic conditions. *Geological Society of America Bulletin*, 133, 2625-2644.
34. Wang R., Ji Y., **Colombera L.**, Mountney N.P., Yuan B., Li D., Song H., & Zhou S. (2021) Axial and transverse depositional systems of a syn-rift basin fill (Bohai Bay Basin, China). *Marine and Petroleum Geology*, 128, art. 105045.
35. Cosgrove G.I.E., **Colombera L.**, & Mountney N.P. (2021) A Database of Aeolian Sedimentary Architecture for the characterization of modern and ancient sedimentary systems. *Marine and Petroleum Geology*, 127, art. 104983.
36. Montero J.M., **Colombera L.**, Yan N., & Mountney N.P. (2021) A workflow for modelling fluvial meander-belt successions: combining forward stratigraphic modelling and multi-point geostatistics. *Journal of Petroleum Science and Engineering*, 201, art. 108411.
37. Yan N., **Colombera L.**, & Mountney N.P. (2021) Controls on fluvial meander-belt thickness and sand distribution: insights from forward stratigraphic modelling. *Sedimentology*, 68, 1831-1860.
38. Li W., Yue D., **Colombera L.**, Du Y., Zhang S., Liu R., & Wang W. (2021) Quantitative prediction of fluvial sandbodies by combining seismic attributes of neighboring zones. *Journal of Petroleum Science and Engineering*, 196, art. 107749.

39. Soares M.V.T., Basilici G., da Silva Marinho T., Martinelli A.G., Marconato A., Mountney N.P., **Colombera L.**, Mesquita A.F., Vasques J.T., Abrantes Jr. F.R., & Ribeiro L.C.B. (2021) Sedimentology of a distributive fluvial system (Upper Cretaceous, Bauru Basin, Brazil): The Serra da Galga Formation, a new lithostratigraphic unit. *Geological Journal*, 56, 951-975.
40. Cosma M., Yan N., **Colombera L.**, Mountney N.P., D'Alpaos A., & Ghinassi M. (2021) An integrated approach to determine three-dimensional accretion geometries of tidal point bars: examples from the Venice Lagoon. *Sedimentology*, 68, 449-476.
41. Wang R., **Colombera L.**, & Mountney N.P. (2020) Palaeohydrological characteristics and palaeogeographic reconstructions of incised-valley-fill systems: insights from the Namurian successions of the United Kingdom and Ireland. *Sedimentology*, 67, 3844-3873.
42. Soares M.V.T., Basilici G., Lorenzoni P., **Colombera L.**, Mountney N.P., Martinelli A.G., Mesquita A.F., da Silva Marinho T., Vázquez García R.G., & Marconato A. (2020) Landscape and depositional controls on palaeosols of a distributive fluvial system (Upper Cretaceous, Brazil). *Sedimentary Geology*, 410, art. 105774.
43. Basilici G., Soares M.V.T., Mountney N.P., & **Colombera L.** (2020) Microbial influence on the accumulation of Precambrian aeolian deposits (Neoproterozoic, Venkatpur Sandstone Formation, southern India). *Precambrian Research*, 347, art. 105854.
44. Tek D.E., Poyatos-Moré M., Patacci M., McArthur A.D., **Colombera L.**, Cullen T.M., & McCaffrey W.D. (2020) Syndepositional tectonics and mass-transport deposits control channelized, bathymetrically complex deep-water systems (Aínsa depocenter, Spain). *Journal of Sedimentary Research*, 90, 729-762.
45. Somerville D.J.P., Mountney N.P., **Colombera L.**, & Collier R.E.Ll. (2020) Impact of a pre-existing transverse drainage system on active rift stratigraphy: an example from the Corinth Rift, Greece. *Basin Research*, 32, 764-788.
46. Coronel M.D., Isla M.F., Veiga G.D., Mountney N.P., & **Colombera L.** (2020) Anatomy and facies distribution of terminal lobes in ephemeral fluvial successions: the Jurassic Tordillo Formation in the Neuquén Basin, Argentina. *Sedimentology*, 67, 2596-2624.
47. **Colombera L.**, & Mountney N.P. (2020) Accommodation and sediment-supply controls on clastic parasequences: a meta-analysis. *Sedimentology*, 67, 1667-1709. *State of the Science* article.
48. Li W., Yue D., **Colombera L.**, Mountney N.P., & Wu S. (2020) A novel method for estimating sandbody compaction in fluvial successions. *Sedimentary Geology*, 404, art. 105675.
49. Parquer M., Yan N., **Colombera L.**, Mountney N.P., Collon, P., & Caumon, G. (2020) Combined inverse and forward numerical modelling for reconstruction of channel evolution and facies distributions in fluvial meander-belt deposits. *Marine and Petroleum Geology*, 117, art. 104409.
50. **Colombera L.**, & Mountney N.P. (2020) On the geological significance of clastic parasequences. *Earth-Science Reviews*, 201, art. 103062.
51. Wang R., **Colombera L.**, & Mountney N.P. (2020) Quantitative analysis of the stratigraphic architecture of incised-valley fills: a global comparison of Quaternary systems. *Earth-Science Reviews*, 200, art. 102988.
52. Yan N., **Colombera L.**, & Mountney N.P. (2020) Three-dimensional forward stratigraphic modelling of the sedimentary architecture of meandering-river successions in evolving half-graben rift basins. *Basin Research*, 32, 68-90.

53. Wang R., **Colombera L.**, & Mountney N.P. (2019) Geological controls on the geometry of incised-valley fills: Insights from a global dataset of late-Quaternary examples. *Sedimentology*, 66, 2134-2168.
54. Burns C.E., Mountney N.P., Hodgson D.M., & **Colombera L.** (2019) Stratigraphic architecture and hierarchy of fluvial overbank splay deposits. *Journal of the Geological Society*, 176, 629-649.
55. **Colombera L.**, & Mountney N.P. (2019) The lithofacies organization of fluvial channel deposits: A meta-analysis of modern rivers. *Sedimentary Geology*, 383, 16-40.
56. **Colombera L.**, Mountney N.P., Medici G., & West L.J. (2019) The geometry of fluvial channel bodies: Empirical characterization and implications for object-based models of the subsurface. *AAPG Bulletin*, 103, 905-929.
57. Cullis S., Patacci M., **Colombera L.**, Bührig L.H., & McCaffrey W.D. (2019) A database solution for the quantitative characterisation and comparison of deep-marine siliciclastic depositional systems. *Marine and Petroleum Geology*, 102, 321-339.
58. Yan N., **Colombera L.**, Mountney N.P., & Dorrell R.M. (2019) Fluvial point-bar architecture and facies heterogeneity, and their influence on intra-bar static connectivity in humid coastal-plain and dryland fan systems. In: Ghinassi M., Colombera L., Mountney N.P., & Reesink A.J. (eds.) *Fluvial meanders and their sedimentary products in the rock record*. Special Publication 48 of the International Association of Sedimentologists, 475-508.
59. Russell C.E., Mountney N.P., Hodgson D.M., & **Colombera L.** (2019) A novel approach for prediction of lithological heterogeneity in fluvial point-bar deposits from analysis of meander morphology and scroll-bar pattern. In: Ghinassi M., Colombera L., Mountney N.P., & Reesink A.J. (eds.) *Fluvial meanders and their sedimentary products in the rock record*. Special Publication 48 of the International Association of Sedimentologists, 385-418.
60. Shiers M.N., Mountney N.P., Hodgson D.M., & **Colombera L.** (2019) Controls on the depositional architecture of fluvial point-bar elements in a coastal-plain succession. In: Ghinassi M., Colombera L., Mountney N.P., & Reesink A.J. (eds.) *Fluvial meanders and their sedimentary products in the rock record*. Special Publication 48 of the International Association of Sedimentologists, 15-46.
61. Ghinassi M., **Colombera L.**, Mountney N.P., & Reesink A.J. (2019) Sedimentology of meandering river deposits: advances and challenges. In: Ghinassi M., Colombera L., Mountney N.P., Reesink A.J. (eds.) *Fluvial meanders and their sedimentary products in the rock record*. Special Publication 48 of the International Association of Sedimentologists, 1-14.
62. Soares M.V.T., Basilici G., Dal' Bó P.F., da Silva Marinho T., Mountney N.P., **Colombera L.**, de Oliveira E.F., & da Silva K.E.B. (2018) Climatic and geomorphologic cycles in a semiarid distributive fluvial system, Upper Cretaceous, Bauru Group, SE Brazil. *Sedimentary Geology*, 372, 75-95.
63. **Colombera L.**, Yan N., McCormick-Cox T., & Mountney N.P. (2018) Seismic-driven geocellular modeling of fluvial meander-belt reservoirs using a rule-based method. *Marine and Petroleum Geology*, 93, 553-569.
64. Cullis S., **Colombera L.**, Patacci M., & McCaffrey W.D. (2018) Hierarchical classifications of the sedimentary architecture of deep-marine depositional systems. *Earth-Science Reviews*, 179, 38-71.
65. **Colombera L.**, Arévalo O.J., & Mountney N.P. (2017) Fluvial-system response to climate change: The Paleocene-Eocene Tresp Group, Pyrenees, Spain. *Global and Planetary Change*, 157, 1-17.

66. Burns C.E., Mountney N.P., Hodgson D.M., & **Colombera L.** (2017) Anatomy and dimensions of fluvial crevasse-splay deposits: examples from the Cretaceous Castlegate Sandstone and Neslen Formation, Utah, U.S.A.. *Sedimentary Geology*, 351, 21-35.
67. Yan N., Mountney N.P., **Colombera L.**, & Dorrell R.M. (2017) A 3D forward stratigraphic model of fluvial meander-bend evolution for prediction of point-bar lithofacies architecture. *Computers & Geosciences*, 105, 65-80.
68. **Colombera L.**, Mountney N.P., Russell C.E., Shiers M.N., & McCaffrey W.D. (2017) Geometry and compartmentalization of fluvial meander-belt reservoirs at the bar-form scale: quantitative insight from outcrop, modern and subsurface analogues. *Marine and Petroleum Geology*, 82, 35-55. *Invited review paper*.
69. **Colombera L.**, Mountney N.P., Hodgson D.M., & McCaffrey W.D. (2016) The Shallow-Marine Architecture Knowledge Store: a database for the characterization of shallow-marine and paralic depositional systems. *Marine and Petroleum Geology*, 75, 83-99.
70. **Colombera L.**, Shiers M.N., & Mountney N.P. (2016) Assessment of backwater controls on the architecture of distributary-channel fills in a tide-influenced coastal-plain succession: Campanian Neslen Formation, U.S.A.. *Journal of Sedimentary Research*, 86, 476-497.
71. **Colombera L.**, Mountney N.P., Howell J.A., Rittersbacher A., Felletti F., & McCaffrey W.D. (2016) A test of analog-based tools for quantitative prediction of large-scale fluvial architecture. *AAPG Bulletin*, 100, 237-267.
72. **Colombera L.**, Mountney N.P., & McCaffrey W.D. (2015) A meta-study of relationships between fluvial channel-body stacking pattern and aggradation rate: implications for sequence stratigraphy. *Geology*, 43, 283-286.
73. **Colombera L.**, Mountney N.P., Felletti F., & McCaffrey W.D. (2014) Models for guiding and ranking well-to-well correlations of channel bodies in fluvial reservoirs. *AAPG Bulletin*, 98, 1943-1965.
74. **Colombera L.**, Mountney N.P., & McCaffrey W.D. (2013) A quantitative approach to fluvial facies models: methods and example results. *Sedimentology*, 60, 1526-1558.
75. **Colombera L.**, Felletti F., Mountney N.P., & McCaffrey W.D. (2012) A database approach for constraining stochastic simulations of the sedimentary heterogeneity of fluvial reservoirs. *AAPG Bulletin*, 96, 2143-2166.
76. **Colombera L.**, Mountney N.P., & McCaffrey W.D. (2012) A relational database for the digitization of fluvial architecture: concepts and example applications. *Petroleum Geoscience*, 18, 129-140.
77. **Colombera L.**, & Bersezio R. (2011) Impact of the magnitude and frequency of debris-flow events on the evolution of an alpine alluvial fan during the last two centuries: responses to natural and anthropogenic controls. *Earth Surface Processes and Landforms*, 36, 1632-1646.

CAPITOLI DI LIBRI DI TESTO

Mountney N.P., Cosgrove G.I.E., & **Colombera L.** (in preparazione) Aeolian environments. In: *Reading's Sedimentary Environments and Facies*, 4th edition (Ed. Levell B.K.). Wiley.

PRESENTAZIONI A CONFERENZE

Autore o co-autore di comunicazioni orali o poster presentati, o tuttora in programma, ad oltre 60 conferenze scientifiche internazionali (2010-2023).

Presentazioni su invito

Colombera L. (2023) Training machine-learning algorithms for sequence stratigraphic interpretations. Stratigraphy fingerprinting today's energy: New approaches and techniques on stratigraphic interpretation. 29 Maggio 2023, Castell'Arquato.

Colombera L. (2021) Distributive fluvial systems: state of the science and a look forward. XVII Argentine Meeting of Sedimentology - VIII Latin American Congress of Sedimentology, 27-30 ottobre 2021. Evento telematico. *Keynote talk*.

Colombera L., Gugliotta M., Holbrook J., & Midtkandal I. (2021) Interactions between river systems and other environments: processes and records. ICFS 2021: Road to ICFS 2022, 14-15 luglio 2021. Evento telematico.

Colombera L., Yan N., Mountney N.P., Parquer M., & Montero J.M. (2021) New approaches to geocellular modelling for meander-belt reservoirs. Gussow Conference 2021, Back to black: Revisiting Mannville heavy oil and oilsands, 10-11 marzo 2021. Evento telematico.

Colombera L., & Mountney N.P. (2020) Geological significance and source-to-sink controls on deltaic parasequences. 2020-2021 World Large River and Delta Systems Source-to-Sink Online Talk Series, 23 ottobre 2020. Evento telematico.

Colombera L. (2020) Applications of geological analogues to the characterization of subsurface alluvial successions. Centre d'Hydrogéologie et de Géothermie Seminar Series, 9 marzo 2020, Université de Neuchâtel, Neuchâtel (Svizzera).

Colombera L., Patacci M., Mountney N.P., Hodgson D.M., & McCaffrey W.D. (2017) From architecture to application: challenges and solutions to modelling clastic reservoirs. Reservoir characterization - a true multidisciplinary approach (Norwegian Petroleum Society - NPF), 5-6 dicembre 2017, Stavanger (Norvegia). Presentato *in absentia*.

Colombera L., Mountney N.P., & McCaffrey W.D. (2016) Quantitative fluvial facies models: applications to subsurface interpretations and predictions. Gussow Conference 2016: Clastic Sedimentology: New Ideas and Applications, 11-13 ottobre 2016, Banff (Canada).

Colombera L., & Mountney N.P. (2016) A quantitative knowledge base of continental depositional systems: new approaches to fluvial facies models and sequence stratigraphy. 35th International Geological Congress, 27 agosto - 4 settembre 2016, Città del Capo (Sudafrica). *Keynote talk*.

Altre presentazioni - comunicazioni orali

1. Colombera L., & Budai S. (2023) An outcrop-oriented machine-learning approach for parasequence recognition in borehole data. SEPM Parasequences Research Conference, 9-12 ottobre 2023, Green River, Utah (USA).
2. Colombera L., & Mountney N.P. (2023) Downstream controls on coastal-pain river avulsion frequency: quantitative analysis of the Holocene record. 12th International Conference on Fluvial Sedimentology, 2-7 luglio 2023, Riva del Garda.

3. Colombera L., Mountney N.P., & Medici G. (2019) Characterization of the geometry of fluvial channel bodies: implications for object-based models of the subsurface. 34th IAS Meeting of Sedimentology, 10-13 settembre 2019, Roma.
4. Colombera L., & Mountney N.P. (2018) Geological significance and controlling factors of siliciclastic parasequences: a comparative study. 20th IAS International Sedimentological Congress, 13-17 agosto 2018, Québec City (Canada).
5. Colombera L., & Mountney N.P. (2018) Fluvial facies models and river planform styles: quantitative analysis of one-dimensional data. 20th IAS International Sedimentological Congress, 13-17 agosto 2018, Québec City (Canada).
6. Colombera L., Yan N., McCormick-Cox T., & Mountney N.P. (2018) Geocellular modeling of fluvial meander-belt reservoirs: a rule-based method conditioned on seismically imaged geometries. AAPG Annual Convention & Exhibition, 20-23 maggio 2018, Salt Lake City (USA).
7. Colombera L., Mountney N.P., Russell C.E., Shiers M.N., & McCaffrey W.D. (2017) Geometry and compartmentalization of meander-belt reservoirs: Characterization of ancient and modern analogues. 11th International Conference on Fluvial Sedimentology, 17-21 luglio 2017, Calgary (Canada).
8. Colombera L., Mountney N.P., Russell C.E., Shiers M.N., Yan N., & Montero J.M. (2017) Quantification of the geometry and compartmentalization of fluvial meander-belt reservoirs: empirical insight from ancient and modern analogs. AAPG Annual Convention & Exhibition, 3-5 aprile 2017, Houston (USA).
9. Colombera L., Mountney N.P., Hodgson D.M., & McCaffrey W.D. (2016) A database approach for the characterization of shallow-marine and paralic clastic depositional systems. 32nd IAS Meeting of Sedimentology, 23-25 maggio 2016, Marrakesh (Marocco).
10. Colombera L., Shiers M.N., & Mountney N.P. (2015) A model for backwater controls on the architecture of distributary channel fills in coastal plain successions: preliminary test against field data from the Neslen Formation (Campanian - Utah, USA). 31st IAS Meeting of Sedimentology, 22-25 giugno 2015, Cracovia (Polonia).
11. Colombera L., Mountney N.P., & McCaffrey W.D. (2014) Relationships between floodplain aggradation rate and fluvial architecture: results of a meta-analysis and implications for fluvial sequence stratigraphy. 53rd BSRG Annual Meeting, 21-22 dicembre 2014, Nottingham (GB).
12. Colombera L., Mountney N.P., Howell J.A., & McCaffrey W.D. (2014) Use of outcrop analogue-based tools for predicting large-scale architecture of fluvial reservoirs and aquifers. 19th IAS International Sedimentological Congress, 18-22 agosto 2014, Ginevra (Svizzera).
13. Colombera L., Shiers M., & Mountney N.P. (2013) Assessing the influence of backwater hydraulics on sedimentological character of distributary channel fills in a tidally influenced deltaic system, Campanian Neslen Formation, Utah, USA. 52nd BSRG Annual Meeting, 18-21 dicembre 2013, Hull (GB).
14. Colombera L., Mountney N.P., & McCaffrey W.D. (2013) Analogue-based correlability models for fluvial successions: a tool for guiding and ranking subsurface interpretations. 30th IAS Meeting of Sedimentology, 2-5 settembre 2013, Manchester (GB).
15. Colombera L., Mountney N.P., & McCaffrey W.D. (2013) A quantitative comparative study to investigate aggradation rate as a predictor of fluvial architecture: implications for fluvial sequence stratigraphy. 10th International Conference on Fluvial Sedimentology, 14-19 luglio 2013, Leeds (GB).

16. Colombera L., Mountney N.P., & McCaffrey W.D. (2012) A comparative study for assessing the influence of controls on large-scale fluvial architecture. 51st BSRG Annual Meeting, 18-20 dicembre 2012, Dublino (Irlanda).
17. Colombera L., Mountney N.P., McCaffrey W.D., & Felletti F. (2012) A database approach for constraining object- and pixel-based stochastic simulations of fluvial sedimentary architecture: example applications to quantification of connectivity. 29th IAS Meeting of Sedimentology, 10-13 settembre 2012, Schladming (Austria).
18. Colombera L., Mountney N.P., & McCaffrey W.D. (2011) Use of a relational database for the classification of fluvial sedimentary systems and the interpretation and prediction of fluvial architecture. 50th BSRG Annual Meeting, 18-20 dicembre 2011, Londra (GB).
19. Colombera L., & Bersezio R. (2011) Dynamics of an alpine alluvial fan (Tartano Fan - Valtellina, N Italy): processes, decadal to centennial evolution and controls. 28th IAS Meeting of Sedimentology, 5-8 luglio 2011, Saragozza (Spagna).

Altre presentazioni - poster

1. Colombera, L., Reesink A.J., Duller R.A., Mountney N.P., & Jeavons V.A. (2023) Thickness variability of dune-scale cross-stratification as a record of flood peakedness: a test against recent channel deposits. 12th International Conference on Fluvial Sedimentology, 2-7 luglio 2023, Riva del Garda.
2. Colombera L., & Mountney N.P. (2021) Characteristics of crevasse-splay deposits and their influence on the static connectivity of fluvial reservoirs: insights from analogs and numerical models. AAPG-SEG International Meeting for Applied Geoscience & Energy, 26 settembre-1 ottobre 2021, Denver (USA).
3. Colombera L., & Mountney N.P. (2019) Quantitative characterization of the architecture of shallow-marine clastic parasequences: applications to reservoir studies. AAPG Annual Convention & Exhibition, 19-22 maggio 2019, San Antonio (USA).
4. Colombera L., & Mountney N.P. (2019) Quantitative fluvial facies models as guides to subsurface interpretations. AAPG Annual Convention & Exhibition, 19-22 maggio 2019, San Antonio (USA).
5. Colombera L., Mountney N.P., & Medici G. (2018) Empirical characterization of the geometry of fluvial channel deposits: implications for object-based reservoir modeling. AAPG Annual Convention & Exhibition, 20-23 maggio 2018, Salt Lake City (USA).
6. Colombera, L., Arévalo, O.J., & Mountney N.P. (2017) Depositional and erosional record of extreme global warming: The Paleocene-Eocene Thermal Maximum in the Tresp Group (Pyrenees, Spain). 11th International Conference on Fluvial Sedimentology, 17-21 luglio 2017, Calgary (Canada).
7. Colombera L., Mountney N.P., Hodgson D.M., & McCaffrey W.D. (2016) Quantitative characterization of the sedimentary architecture of shallow-marine and paralic reservoir analogs: a database approach. AAPG Annual Convention & Exhibition, 19-22 giugno 2016, Calgary (Canada).
8. Colombera L., Hodgson D.M., Mountney N.P., & McCaffrey W.D. (2016) Shelf tidal sand ridges as stratigraphic traps and reservoir units: characterization through an integrated analysis of modern seas and Quaternary and ancient deposits. 32nd IAS Meeting of Sedimentology, 23-25 maggio 2016, Marrakesh (Marocco).
9. Colombera L., Mountney N.P., & Arévalo O.J. (2015) Climate change and the response of river landscapes: insights from the sedimentary architecture of fluvial systems across the Paleocene-Eocene boundary. 54th BSRG Annual Meeting, 19-22 dicembre 2015, Keele (GB).

10. Colombera L., Mountney N.P., Plink-Björklund P., Arévalo O.J., & McCaffrey W.D. (2015) Climate change and geomorphic evolution: insights from meta-analysis of the sedimentary architecture of fluvial systems across the Paleocene-Eocene boundary. 31st IAS Meeting of Sedimentology, 22-25 giugno 2015, Cracovia (Polonia).
11. Colombera L., Mountney N.P., Howell J.A., Rittersbacher A., & McCaffrey W.D. (2014) Geological modeling of outcrop successions to assess analog-based predictions of the sedimentary heterogeneity in fluvial reservoirs. AAPG Annual Convention & Exhibition, 31 Maggio - 2 giugno 2015, Denver (USA).
12. Colombera L., Patacci M., McCaffrey W.D., & Mountney N.P. (2014) Digital reproduction of clastic sedimentary architecture by means of relational databases: characterization and prediction of fluvial and deep-marine reservoirs. AAPG Annual Convention & Exhibition, 6-9 aprile 2014, Houston (USA).
13. Colombera L., Mountney N.P., & Howell J.A. (2014) Use of outcrop-analogue data in the compilation and validation of predictive tools for aiding deterministic and stochastic models of fluvial reservoirs. Geological Society of London - Reducing subsurface uncertainty & risk through field-based studies, 4-6 marzo 2014, Londra (GB).
14. Colombera L., Mountney N.P., & McCaffrey W.D. (2013) Quantitative empirical relationships for the prediction of subsurface fluvial sedimentary architecture. AAPG Annual Convention & Exhibition, 19-22 maggio 2013, Pittsburgh (USA).
15. Colombera L., Mountney N.P., & McCaffrey W.D. (2012) A database approach to fluvial facies models: example results from the Lower Jurassic Kayenta Fm. (SE Utah). 51th BSRG Annual Meeting, 18-20 dicembre 2011, Dublino (Irlanda).
16. Colombera L., Mountney N.P., & McCaffrey W.D. (2012) Signature of controlling factors on the large-scale architecture of fluvial depositional systems: a comparative study. 29th IAS Meeting of Sedimentology, 10-13 settembre 2012, Schladming (Austria).
17. Colombera L., Felletti F., Mountney N.P., & McCaffrey W.D. (2012) A database approach for constraining geostatistical reservoir models: concepts, workflow and examples. AAPG Annual Convention & Exhibition, 22-25 aprile 2012, Long Beach (USA).
18. Colombera L., Mountney N.P., & McCaffrey W.D. (2012) A relational database for the digitization of fluvial architecture: towards quantitative synthetic depositional models. AAPG Annual Convention & Exhibition, 22-25 aprile 2012, Long Beach (USA).
19. Colombera L., Mountney N.P., & McCaffrey W.D. (2011) A relational database for quantifying fluvial sedimentary architecture: application to discern spatial and temporal trends in Permian and Jurassic fluvial successions from SE Utah, USA. 28th IAS Meeting of Sedimentology, 5-8 luglio 2011, Saragozza (Spagna).
20. Colombera L., Mountney N.P., & McCaffrey W.D. (2010) A relational database for the digitization of fluvial architecture: conceptual scheme and overview of possible applications. 49th BSRG Annual Meeting, 19-21 dicembre 2010, Southampton (GB).