

Victor Manuel Giraldo Gómez

Geologist

CONTACT

SUMMARY

Consummate geologist with experience in geology, micropaleontology, and oil exploration. Expert in paleoenvironmental reconstructions of shallow and depth-waters settings from the Mesozoic and Cenozoic. Extensive know-how in geology, sedimentology, stratigraphy, micropaleontology, paleoclimatology, geochemistry, marine geology and paleoceanography.

SKILLS HIGHLIGHTS

- Multi proxy Analyses
- Data integration and interpretation
- Computer proficiency
- Multilingual speaker
- Excellent communications abilities

WORK EXPERIENCE

01/2019 – Present **Post-Doctoral fellowship**
University of Milan. Department of Earth Sciences.
Milan, Italy.

- Study of different ODP-DSDP cores (Atlantic, Pacific, Antarctic, and Indian Ocean) and Italian sections.
- Analyses of benthic foraminifera.
- Description and interpretation of oxygen and organic matter levels.
- Paleobathymetric reconstruction.
- Paleoceanographic characterization of bottom-waters during the Ocean Anoxic Events (OAEs).

Supervisors: Prof. Dr. Elisabetta Erba, Prof. Dr. Maria Rose Petrizzo.

12/2017 – 2018 **Research contract**
University of Milan. Department of Earth Sciences.
Milan, Italy.

Project: "Depositional characterization of organic-rich facies in deep and ultra-deep-water areas. - Biostratigraphic and Paleoceanographic characterization" (Research contract by Eni to Erba)

PI: Prof. Dr. Elisabetta Erba

IT SKILLS

- Pack MS-Office
- Corel Draw
- Adobe Illustrator
- SPSS Statistics
- Past
- Pan Plot
- Well Wizard
- Anax 500

LANGUAGES

- **Spanish**
Native ●●●●●
- **English:**
Fluency ●●●●●
- **German:**
Proficient ●●●●●
- **Italian:**
Proficient ●●●●●

2011

Geologist – Mud-logger

Datalog Colombia.
Bogotá, Colombia.

- Description of lithological units
- Well logging (well-control).
- Drill cuttings collection
- Analyses and interpretation of hydrocarbons.
- Real-time records of the geological and well parameters data (Master-log).

2007 – 2009

Geologist – Biostratigrapher

Ecopetrol – Instituto Colombiano del Petróleo (ICP)
Piedecuesta, Colombia.

- Core descriptions, sampling and biostratigraphic analyses of cuttings and cores.
- Biostratigraphic control (on-site) of different exploratory wells (on-shore).
- Analyses and interpretation of biozones and processing data.
- Reports and consulting for the well site geologist.
- Daily operation reports (biostratigraphy) to the company.

2004 – 2006

Student Research Assistant

Ruhr-University Bochum. Institute of Geology, Mineralogy and Geophysics
Bochum, Germany.

- Preparation of samples for micropaleontology and geochemistry.
- Micropaleontological description from core BG1 from NW-Germany.

2003

Student Research Assistant

RWTH Aachen. Institute of Geology and Geochemistry of Petroleum and Coal
Aachen, Germany.

- Preparation of samples of coal for geochemistry analyses.
- Development of bibliographic database.

1998

Research Assistant

Ingeomina. Geological survey of Colombia
Ibagué, Colombia.

Project: "Caracterización de las unidades geológicas y geomorfológicas de Colombia"

- Petrographic analysis and description from thin sections from different Formations of Colombia.
- Development of a database.
- Sampling, mapping, analysis and interpretation from the Imán Formation (Devonian) -Rovira - Colombia.

EDUCATION

Dr.rer.nat. (PhD.)

06/2013 – 05/2017

Ruhr-Universität Bochum. Faculty of Geosciences, Institute of Geology, Mineralogy and Geophysics.
Bochum, Germany.

"Biostratigraphy and paleoecology of the Paleogene oil shales from Jordan (Near East) – the micropaleontological record"

Supervisor: Prof. Dr. Jörg Mutterlose.

M.Sc. Sedimentology – Environmental Geology / Geobiology

04/2004 – 07/2006

Ruhr-Universität Bochum. Faculty of Geosciences, Institute of Geology, Mineralogy and Geophysics.
Bochum, Germany.

“Benthic foraminifera from the mid-late Albian of NW-Germany: Paleoenvironment and
Paleoecology”

Supervisor: Prof. Dr. Jörg Mutterlose.

Geologist

07/1992 – 11/1999

Universidad de Caldas. Faculty of Natural Sciences, Department of Geology.
Manizales, Colombia.

“New contributions to the stratigraphic knowledge of the Iman Formation (Devonian). Rovira,
Colombia”

COURSES, TRAINING AND WORKSHOPS

- 2014 – 2016 Examination of the Paleogene collection of Benthic foraminifera from the Middle East (Egypt - Tunisia). Taxonomic revision of benthic foraminifera from Jordan for the Ph.D. project. (sporadic visits during these two years).
Catholic University of Leuven (KU), Department of Earth and Environmental Sciences.
Leuven, Belgium.
Supervisor: Prof. Dr. Robert Speijer.
- 18/05/2016 Workshop of calcareous nannofossils. “Discoasters”.
International Nannoplankton Association (INA) and The Micropaleontological society (TMS).
Plymouth, UK.
- 20/11/2014 Mini-workshop “Cores from Jordan – Paleogene”.
Ruhr-University Bochum and Shell Global Solution
Bochum, Germany.
- 3-21/06/2014 7th International School on Foraminifera (ISF).
Grzybowski Foundation.
Urbino, Italy.
- 16/04/2014 Mini-workshop “The record of the PETM and other Paleogene hyperthermal events in oil shales, cores from Jordan”.
Ruhr-University Bochum, Catholic University of Leuven (KU) and Shell Global.
Bochum, Germany.
- 13-14/05/2011 Course of Stuck Pipe. International Association of Drilling contractors (IADC).
Bogotá, Colombia.
- 25-28/01/2011 Course of Mudlogger. Datalog Colombia SAS.
Bogotá, Colombia.
- 13-18/01/2009 Workshop “Applied Biostratigraphy”.
Ecopetrol (ICP) and University of Salamanca.
Piedecuesta, Colombia.

CONFERENCES AND SEMINARS

- 19-30/04/2021 **EGU General Assembly 2021.** Vienna, Austria.
Surface-and deep-water response to the Early Aptian OAE 1a in the western Tethys. Bottini, C., **Giraldo-Gómez, V. M.**, Petrizzo, M. R., Erba, E. (Talk)
- 2-5/07/2019 **Third International Congress on Stratigraphy – Strati.** Milan, Italy.
A revision of the stratigraphic distribution of Cretaceous OAEs in Central and South Atlantic. Gambacorta G., Erba E., Esegbue O., Petrizzo M.R., Miniati F., Bottini C. Gilardoni S., **Giraldo-Gómez V.**, Wagner T. (Talk)
- 2-5/07/2019 **Third International Congress on Stratigraphy – Strati.** Milan, Italy.
The $\delta^{13}\text{C}_{\text{carb}}$ record as a chemostratigraphic tool in correlating organic matter rich carbonates - case study from the Maastrichtian-Danian oil shales of Jordan. Beik I., **Giraldo-Gómez V.**, Podlaha O., Mutterlose J. (Talk)
- 11-15/06/2016 **Jahrestagung der Paläontologischen Gesellschaft.** Dresden, Germany.
Environmental setting of late Cretaceous to early Eocene oil shales from central- and south-east Jordan. Beik, I., **Giraldo-Gómez, V. M.**, Podlaha, O., Mutterlose, J. (Talk)
- 1-4/11/2015 **The Geological Society of American (GSA). Annual meeting 2015.** Baltimore, USA.
Calcareous nannofossils from the PETM interval of a shelf section in Jordan. **Giraldo Gómez, V. M.**, Linnert, C., Mutterlose, J. (Talk)
- 14-16/09/2015 **Jahrestagung der Paläontologischen Gesellschaft.** Schiffweiler, Germany.
Surface and bottom water conditions from the PETM interval of a shelf section in Jordan. **Giraldo Gómez, V. M.**, Mutterlose, J. (Talk)
- 14-18/06/2015 **TMS foraminifera and Nannofossil Joint Meeting.** Plymouth, UK.
Calcareous nannofossils from the PETM interval of a shelf section in Jordan. **Giraldo Gómez, V. M.**, Mutterlose, J. (Talk)
- 15-19/12/2014 **TMS American Geophysical Union (AGU). Fall meeting 2014.** San Francisco, USA.
Mo isotopes as redox indicators for the Southern Tethys during the PETM. Wouters, H., Dickson, A., Porcelli, D., Hesselbo, P. S., van den Boorn, S., **Giraldo Gómez, V. M.**, Mutterlose, J. (Talk)
- 15-18/03/2009 **Geological problem solving with microfossils 2.** Houston, USA.
The impact of Biostratigraphy on New Oil Discoveries in Colombia. **Giraldo Gómez, V. M.**, Caicedo, C., Rueda, M., Torres, V. (Poster)
- 15-17/09/2008 **TMS foraminifera and Nannofossil Joint Meeting.** Tübingen, Germany.
Paleoenvironmental reconstruction with foraminifera during the middle - late Albian of the Villeta Formation (Member Tetuan) in the Upper Magdalena Valley, Colombia. **Giraldo Gómez, V. M.**, Caicedo, Claudia. (Talk)

PUBLICATIONS

Giraldo-Gómez, V. M., Petrizzo, M. R., Erba, E., Bottini, C., (in revision). Paleooceanographic inferences from benthic foraminifera across the early Aptian Ocean Anoxic Event 1a in the western Tethys. *Palaeogeography, Palaeoclimatology, Palaeoecology*.

Giraldo-Gómez, V. M., Petrizzo, M. R., Bottini, C., Möller, C., Wagner, T., Cavalheiro, L., Esegbue, O., Gambacorta, G., Erba, E., (in revision). Bottom water redox dynamics during the Early Cretaceous Weissert Event at ODP Hole 692B (Weddell Sea, Antarctica) reconstructed from the benthic foraminiferal assemblages. *Palaeogeography, Palaeoclimatology, Palaeoecology*.

Cavalheiro, L., Wagner, T., Steinig, S., Bottini, C., Dummann, W., Esegbue, O., Gambacorta, G., **Giraldo-Gómez, V.**, Farnsworth, A., Flögel, S., Hofmann, P., Lunt, D., Rethemeyer, J., Torricelli, S., Erba, E., 2021. Impact of global cooling on Early Cretaceous high $p\text{CO}_2$ world during the Weissert Event. *Nature Communications*. 12(1), 1-11. doi.org/10.1038/s41467-021-25706-0

Giraldo-Gómez, V. M., Mutterlose, J., Beik, I., Podlaha, O. G., Kolonic, S. 2021. Oil shales from the K-Pg boundary interval of Jordan—Climate controlled archives of surface and bottom water conditions in a shelf setting. *Marine and Petroleum Geology*. 123, 1-14. doi.org/10.1016/j.marpetgeo.2020.104724.

Hoffmann, R., Bitner, M. A., Pisera, A., Jäger, M., Auer, G., **Giraldo-Gómez, V.**, Schneider, S., Tomás Kočí, T., Buckeridge, J., Mueller, M., Stevens, K., Schneider, S. 2020. Late Miocene biota from the Abad Member of the Carboneras-Nijar Basin (Spain, Andalusia): A bathyal fossil assemblage pre-dating the Messinian salinity crisis. *Geobios*. 59, 1-28. doi.org/10.1016/j.geobios.2020.03.002.

Giraldo-Gómez, V. M., Beik, I., Podlaha, O. G., Mutterlose, J. 2018. A paleoenvironmental analyses of benthic foraminifera from Upper Cretaceous–Lower Paleocene oil shales of Jordan. *Cretaceous Research*. 91, 1-13. doi.org/10.1016/j.cretres.2018.04.021.

Giraldo-Gómez, V. M., Mutterlose, J., Podlaha, O. G., Speijer, R. P., Stassen, P. 2018. Benthic Foraminifera and Geochemistry across the Paleocene–Eocene Thermal Maximum Interval in Jordan. *Journal of Foraminiferal Research*. 48 (2), 100-120. doi.org/10.2113/gsjfr.48.2.87.

Beik, I., **Giraldo Gómez, V.**, Podlaha, O. G., Mutterlose, J. 2018. The $\delta^{13}\text{C}$ record of Maastrichtian–Paleocene oil shales from Jordan—Stratigraphic and environmental implications for an epicontinental setting. *Journal of African Earth Sciences*. 143, 134-144. doi.org/10.1016/j.jafrearsci.2018.03.022.

Beik, I., **Giraldo Gómez, V.**, Podlaha, O. G., Mutterlose, J. 2017. Microfacies and depositional environment of Late Cretaceous to Early Paleocene oil shales from Jordan. *Arabian Journal of Geosciences*. 10 (15), 346. doi.org/10.1007/s12517-017-3118-6.

Giraldo Gómez, V. M., Beik, I., Podlaha, O. G., Mutterlose, J. 2017. The micropaleontological record of marine early Eocene oil shales from Jordan. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 485, 723-739. doi.org/10.1016/j.palaeo.2017.07.030.

Giraldo Gómez, V. M., Linnert, C., Podlaha, O. G., Mutterlose, J. 2016. Response of calcareous nannofossils to the Paleocene-Eocene thermal maximum from a shelf section in Jordan. *Marine Micropaleontology*. 127, 11-25. doi.org/10.1016/j.marmicro.2016.07.003.

Alqudah, M., Hussein, M. A., van den Boorn, S., **Giraldo Gómez, V. M.**, Sadat Kolonic., Podlaha, O. G., Mutterlose, J. 2014. Eocene oil shales from Jordan - Paleoenvironmental implications from reworked microfossils. *Marine and Petroleum Geology*. 52, 93-106. doi.org/10.1016/j.marpetgeo.2014.02.001.

Milan, 25.11.2021

Firmato digitalmente da

**Victor Manuel Giraldo
Gómez**

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