

Juan Carlos SILVA-TAMAYO, *PhD*

Assistant Professor

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Academic history

2012-2014 ***Marie Curie Postdoctoral Fellow. Stanford University (USA) - University of Leeds (U.K.)***

I am using multi-isotope proxies ($\delta^{44/40}\text{Ca}$, $\delta^{26}\text{Mg}$, $\delta^{238/235}\text{U}$, $\delta^{98/95}\text{Mo}$, $\delta^{34/32}\text{S}$, $\delta^{88}\text{Sr}/^{86}\text{Sr}$) in carbonates and black shales to investigate the effects of past ocean acidification and de-oxygenation during periods of high atmospheric $p\text{CO}_2$ and biologic crises and diversifications; i.e. Ediacaran, Permian-Triassic and Triassic-Jurassic.

2010-2011 ***Postdoctoral Fellow. Smithsonian Tropical Research Institute, USA-Panama.***

I applied sequence stratigraphic, chemostratigraphy (Sr-, C- and O- isotopes) and carbonate U-Pb geochronology to date and relate changes in the Cenozoic Caribbean carbonate fabrics to past environmental, tectonic and climatic changes.

2005-2009 ***Ph.D. in isotope geochemistry. Universitat Bern, Bern, Switzerland.***

Title of dissertation: Major variations in the global biogeochemical cycles in the aftermath of the Neoproterozoic glaciation: A multi-proxy approach.

2000-2004 ***M.Sc. in environmental and sedimentary sciences. Universidade Federal de Pernambuco, Recife, Brazil.***

Title of dissertation: C, O- and Sr-isotope stratigraphy of the Sao Caetano Complex, Borborema Structural Province, NE Brazil.

1999 ***B.Sc. in Geology. Universidad EAFIT, Medellin, Colombia.***

Title of dissertation: Sequence stratigraphy and petrography of the Upper Amaga Member of the Coal Amaga Formation-Antioquia.

Employment history

Academic experience

2014-present ***Assistant professor in sedimentary and environmental Geology*** *University of Houston*

2011- 2014 ***Assistant professor in sedimentary and environmental Geology.*** *Universidad de Caldas, Manizales, Colombia.*

I am teaching courses in stable isotope geochemistry, environmental geology, carbonate sedimentology and geochemistry, and field geology.

2004-2005 ***Teaching Assistant.*** *University of Tennessee, Knoxville, USA.*
Sedimentary Geology and Stratigraphy.

Industrial experience

2014 ***Consultant.*** *GranTierra Petroleum Company.*
Modern and ancient analogs of part the Cretaceous carbonate record of the Putumayo basin, Colombia. Linking carbonate fabric features to seismic and petrophysical characteristics

2013 ***Consultant.*** *Hocol Petroleum Company.*
Sequence stratigraphy, chemostratigraphy, and paragenetic characterization of Cenozoic Carbonate succession from the northern part of the San Jacinto Folded Belt Basin, northern Colombia.

2013 ***Consultant.*** *Gran Tierra Petroleum Company.*
Sequence stratigraphy, chemostratigraphy and paragenetic characterization of Cretaceous carbonate and siliciclastic successions along the Putumayo Basin, southern Colombia.

2012 ***Consultant.*** *PETROBRAS, REPSOL, Colombian Petroleum Company (consortium).*
Sequence stratigraphy and carbonate characterization (using Petrography, CL, elemental and isotope geochemistry, carbonate U-Pb dating) of Cenozoic carbonate successions along La Guajira Peninsula, northern Colombia and Panama.

2011- 2012 ***Consultant.*** *PETROBRAS, Pacific Rubiales, Colombian Petroleum Company.*
Sequence stratigraphy and reservoir characterization of Cretaceous carbonates along the Cesar Rancheria Basin, northern Colombia.

2010-2011 ***Consultant.*** *Colombian National Agency of Hydrocarbons (ANH)*
Stratigraphy and carbonate characterization (using Petrography, Cathodoluminescence, elemental and isotope geochemistry) of potential carbonate gas reservoirs along the San Jacinto frontier basin, NW Colombia and the Colombian Pacific.

2010-2011 ***Consultant. Colombian Petroleum Company (ECOPETROL).***
Stratigraphy and carbonate characterization (using Petrography, CL, elemental and isotope geochemistry, carbonate U-Pb dating) of Cenozoic carbonate successions along La Guajira Peninsula, Colombia and Panama.

Research grants

2012 ***Marie Curie IOF program grant (European Union).***
Investigating the effects of past and recent ocean acidification using multi-proxy geochemical indicators.
PI: Juan Carlos Silva-Tamayo
Grant Amount: € 400.000.

UNESCO Man and Biosphere grant program.
Holocene paleoclimatic reconstruction of the northwest of Latin America: a multi-proxy and multi-scale approach.
P.I. Juan Carlos Silva-Tamayo
Grant Amount: US\$ 5000

2005 ***Universitat de Bern- Swiss National Science Foundation scholarship.***
Project: Mo and Ca- isotopes in carbonates.
PI: Thomas F. Nagler
Grant amount CHF\$ 120.000

Sigma-Xi research grant.
Project: Modeling changes in global oxygenation levels during the lower Paleozoic explosion of animal life.
PI: Juan Carlos Siva-Tamayo
Grant amount US\$ 1000

Society of paleontologist and sedimentologists (SEPM) research grant.
Project: investigating changes in global oxygenation levels during the Ediacaran.
PI: Juan Carlos Siva-Tamayo
Grant amount US\$ 1.500

Geological Society of America (GSA) research grant.
Project: Major fluctuation in global biogeochemical cycles associated to the Neoproterozoic global glaciations.
PI: Juan Carlos Siva-Tamayo
Grant amount US\$ 1.500

University of Tennessee Travel Grant.
PI: Juan Carlos Siva-Tamayo
Grant amount US\$ 1000

2010-2011 **-Colombian Agency for the Advance of Culture and Science, COLFUTURO Research Grant.**

Project: Stable isotope stratigraphy as a correlation tool of Mesoproterozoic Carbonate sequences.

PI: Juan Carlos Siva-Tamayo

Grant amount US\$ 50.000

Teaching and Advising

Teaching

2015 **University of Houston**

Physical Geology 1330

Sedimentology Graduate Seminar 6396

2011- 2014 **Universidad de Caldas, Manizales, Colombia**

Environmental Geology, instrumental analysis, Carbonate geochemistry, stable isotopes geochemistry, Colombian geology, field geology.

2010 **Universidad Nacional de Colombia, Medellin, Colombia**

Traditional and non-traditional stable isotopes, analytical techniques and applications.

2010 **14th Latin American Geological Congress**

Traditional and non-traditional stable isotopes, analytical techniques and applications.

2004-2005 **University of Tennessee, Knoxville, Tennessee, USA.**

Sedimentary geology

Introductory Geology

Advising

Graduate students

-Manuel Paez (PhD Student, University of Houston, Advisor)

-Lucia Torrado (PhD Student, University of Houston, Co-Advising)

-Deniz Erdal (MSc Student, University of Houston, Advisor)

-Soty Odho (MSc Student, University of Houston, Co-advisor)

- Juan Sebastian Rosero (MSc, Universidad de Caldas). Graduated in May 2013

- Veronica Ramirez (MSc, Universidade de Sao Paulo). Graduated in December 2014

-Jimena Jiraldo (MSc, Universidad de Caldas). Graduated in March 2014

Undergraduate students

-Annika Bruetske (Leipzig Universitat Hannover). Graduated in March 2013)

-Veronica Ramirez (Universidad EAFIT). Graduated in October 2012

-Natalia Ocampo (Universidad de Caldas). Graduated in March 2013

-Marcela Montealegre (Universidad de Caldas). Graduated in March 2013

- Cataliana Ramirez (Universidad de Caldas). Graduated in May 2013
- David Trujillo (Universidad de Caldas). Graduated in May 2013
- Efer Nomeski (Universidad de Caldas). Graduated in November 2013
- Carolina Bedoya (Universidad de Caldas). Graduated in November 2013
- Ana Milena Salazar (Universidad de Caldas). Graduated in January 2014
- Leidy Rojas (Universidad de Caldas) Graduated in January 2014
- Juan Camilo Gomez (Universidad de Caldas) Graduated in March 2014

Public and Professional Service

Invited and keynote Talks

- 2015** ***Invited Speaker, 20th Caribbean Geological Conference, Port of Spain, Trinidad & Tobago.*** Changes in Eocene-Miocene Shallow Marine Carbonate Factories Along the Tropical Southeast Circum-Caribbean Responded to Major Regional and Global Environmental and Tectonic Events.
- Invited Speaker, AAPG ACE-2015 Denver, CO, USA*** Tectonic and Environmental Factors Controlling the Distribution of Sedimentary Facies During the Cretaceous Oceanic Anoxic Events in an Epicontinental Sea: The Colombian Case.
- Invited Speaker, AAPG ACE-2015 Denver, CO, USA*** Changes in Eocene-Miocene Shallow Marine Carbonate Factories Along the Tropical Southeast Circum-Caribbean Responded to Major Regional and Global Environmental and Tectonic Events
- Invited speaker, University of West Indies (Mona, Jamaica).*** Changes in Cenozoic marine carbonate factories along the SE Circum Caribbean.
- Invited speaker, Jamaica Petroleum Corporation (Kingston, Jamaica).*** Rise and demise of a tropical coral reef along the SE Circum Caribbean.
- 2014** ***Invited Speaker, University of Houston (Houston, Texas, USA).*** Effects of ocean acidification and de-oxygenation on the global marine biogeochemical cycles during periods of high atmospheric pCO₂.
- 2013** ***Invited Speaker, Colombian Association of Petroleum Geologist (Bogota, Colombia).*** Precise U-Pb dating of Cenozoic tropical reef carbonates: Linking the evolution of Caribbean reef carbonates to Cenozoic climate, environmental changes and oil reservoirs.
- 2012** ***Invited speaker, Helmholtz Center for ocean Research, Geomar (Kiel, Germany).*** Mo and Ca isotope evidence of ocean de-oxygenation and acidification leading to the end Permian biologic catastrophe.
- Invited speaker, faculty seminar, University of California Santa Cruz (Santa Cruz, USA).*** Precise U-Pb dating of Cenozoic tropical reef carbonates: Linking the evolution of Caribbean reef carbonates to Cenozoic climate
- Invited speaker, Leipzig Universitat Hanoover (Hannover, Germany).*** Multi-

proxy evidence of changes in the global biogeochemical cycles along the Permian-Triassic biologic crises.

Keynote Speaker, VII South American Symposium on Isotope Geology (Medellin, Colombia). Precise U-Pb dating of Cenozoic tropical reef carbonates: Linking the evolution of Caribbean reef carbonates to Cenozoic climate, environmental changes and oil reservoirs.

Invited speaker, Repsol, Ecopetrol, Petrobras consortium (Bogota, Colombia). Carbonate sequence stratigraphy and reservoir characterization of Cenozoic carbonate successions along northern South America.

Invited speaker, Italian Hydrocarbon Company, ENI, (Milan, Italy). Precise U-Pb dating of Cenozoic Carbonates along the SE Circum-Caribbean.

2011 **Invited speaker, Smithsonian Tropical Research Institute (Panama, Panama).** Multiproxy evidences of past ocean acidification: Clues for the 21st Century Earth.

2010 **Invited speaker, Universidad EAFIT (Medellin, Colombia).** Mo-isotopes as a proxy of past oceanic oxygenation.

2007-2006 **Invited speaker, Geological Sciences Seminar, ETH-Zurich (Zurich, Switzerland).** Changes in the geochemistry of Neoproterozoic Postglacial Oceans: A Multi-Proxy approach

Invited speaker, University of Sao Paulo (Sao Paulo, Brazil). Ca- and Mo-isotope stratigraphy of Neoproterozoic cap-carbonate successions

Keynote speaker Annual meeting Brazilian Academy of Sciences (Recife, Brazil). Mo- and Ca-isotopes in carbonates as tracers of changes in the global biogeochemical cycles: Applications, preliminary results and perspectives.

Conference and congresses organization

2012 **Member of the organizing and Scientific Committees** “VII South American Symposium on Isotope Geology” (Medellin, Colombia)

2011 **Director Scientific workshop** “exploring scientific prospectus of the International Continental Drilling Program (ICDP) in NW South America” (Medellin, Colombia)

Convener “1st Symposium on traditional and non-traditional stable isotopes”. 14th Latin American Geological Congress (Medellin, Colombia)

Peer reviews for scientific journals

-Journal of South American Earth Sciences, Elsevier.

-Revista Biológica Tropical

-Anais da Academia Brasileira de Ciencias, Academia Brasileira de Ciencias

-Boletín de Ciencias de la Tierra, Universidad Nacional de Colombia

Other Services

Advisor of the AAPG student Chapter, University of Houston

Publication record

Publication in peer-reviewed journals

- 2015**
- Montes, C., Cardona, A., Jaramillo, C., Pardo, A., **Silva-Tamayo, J.C.**, Valencia, V., Ayala, C, Pérez-Angel, L.C., Rodriguez-Parra, L.C., Ramirez, V., Niño, H., Middle Miocene closure of the Central American Seaway, Science, in press
 - Schaal, E., Meyer, K., Lau, K., **Silva-Tamayo, J.C.**, Payne, J. L., Oceanic anoxia during the Permian-Triassic transition and links to volcanism, Geological Society Special Chapter, In press
- 2014**
- Rosero, J., **Silva-Tamayo, J.C.**, Sial, A.N., Borrero, C. Pardo, A. 2014. Quimioestratigrafía De Isótopos De Estroncio De Algunas Sucesiones Del Eoceno-Mioceno Del Cinturón De Sanjacinto Y El Valle Inferior Del Magdalena, Boletín de Geología, UIS 36, 15-27
- 2010**
- **Silva-Tamayo J.C.**, Nägler T, Newton R, Wignall P, Grice K & Böttcher M. 2010 Global Shallow Marine Euxinia Triggering the Latest Permian Mass Extinction: Evidence from Mo-Isotopes. Editor Choice, Science
 - **Silva-Tamayo, J.C.**, Nägler, T.F., Nogueira, A., Kyser, K., Villa Igor, Riccomini, C., Sial, A.N., Narbonne, G.M., James, N.P. 2010. Global perturbation of the marine Ca-isotopic composition in the aftermath of the Marinoan global glaciation. Precambrian Research, 182, 373-381
 - **Silva-Tamayo, J.C.**, Nägler, T.F., Villa, I.M., Kyser, K., Vieira, L.C., Sial, A.N., Narbonne, G.M., and James, N.P. 2010. Global Ca isotope variations in Post-Sturtian carbonate successions Terra Nova 22, 188-194
- 2008**
- **Silva-Tamayo, J.C.**, Sierra, G.M., Correa, L.G., 2008. Tectonic and climate driven fluctuations in the stratigraphic base level of a Cenozoic continental coal basin, northwestern Andes, Journal of South American Earth Sciences, 26, 3869-382
- 2005**
- **Silva-Tamayo, J.C.**, Sial, A.N., Ferreira, V.P., Pimentel, M.M., 2005, C- and Sr-isotope stratigraphy of the São Caetano Complex, northeastern Brazil: a Contribution to the study of the Meso-Neoproterozoic seawater geochemistry. Brazilian Academy of Science, 35, 137-155.
- 2004**
- Marques, W., **Silva-Tamayo, J.C.**, Sial, A.N., Menor, A., 2004, Análises de $\delta^{13}\text{C}$ e $\delta^{18}\text{O}$ em foraminíferos da margem continental do Nordeste Brasileiro entre os estados do Ceará e Pernambuco. Boletim de Geologia UFC, v. 30, 1-25.
 - Sierra, G., **Silva-Tamayo, J. C.**, Correa, L., 2004. Estratigrafía Secuencial de la Formación A maga. Bol. Cien. Tierra, 15, 9-22.

Submitted in peer-reviewed journals

- **Silva-Tamayo, J.C.**, Weyer, S., Payne, J.L., Wignall, P.B., Newton, R., Bruetzke, A., Neubert, N., Maher, K., Lau, K. Mo- and U-isotopes suggest

widespread ocean euxinia triggering the latest Permian mass extinction.

- **Silva-Tamayo J.C.**, Payne J.L., Eisenhauer, A , Wignall P. B., Newton R. J. Global perturbation of the Marine Ca isotope cycle during the Permian-Triassic transition.

In preparation for peer-reviewed journals

- **Silva-Tamayo, J.C.**, Weyer, Wignall, P., Newton. R., More evidence of rapid enhancement of marine euxinia as triggering the latest Permian mass extinction: Evidences from Mo-isotopes.
- **Silva-Tamayo, J.C.**, Weyer, S. Sial, A.N., Raiswell, R., Nogueira, A., Ricommini, C. Mo and U isotope evidences of changing local and global oceanic redox conditions in the aftermath of the Marinoan global glaciation.
- **Silva-Tamayo, J.C.**, Coccionni, R., Scopelleti, G. Mo-isotopes evidence for increased anoxia during OAE-2, distinguishing local from global signals.
- **Silva-Tamayo, J.C.**, Payne, J.L., Wignall P.B., Newton R.J., Neubert, N, Brueske, A., Eisenhauer A., Weyer, S, Fietzke, J., Maher, K. Ca, Mo and U isotopes suggest Neoproterozoic-like ocean conditions during the Late Permian Mass Extinction.
- **Silva-Tamayo, J.C.**, Rise, Justin, Eisenhauer, A., Paytan, A. Major perturbations in the Ediacaran marine Ca and Sr stable isotope cycle reflect profound changes in ocean chemistry during the advent of biomineralization.

Abstracts and Extended Abstracts

2013

- **Silva-Tamayo, J.C.**, Payne, J.L., Wignall P.B., Newton R.J., Neubert, N, Brueske, A., Eisenhauer A., Weyer, S, Fietzke, J., Maher, K., Lau, Kim, Ca, Mo and U isotope evidences of ocean acidification and deoxygenation during the Late Permian Mass Extinction. Geological Society of America Annual Meeting, Denver, Colorado, USA
- Ramírez, C., Trujillo, D., **Silva-Tamayo, J.C.**, Sial, A.N., Pardo, A., Salazar, E., Valencia, V. Caracterización diagenética y quimioestratigrafía de sucesiones de carbonatos con potencia de generación y acumulación de aceites y gases en el Caribe sur oriental: Miembro Kesima de la Formación Palanz. Congreso Colombiano de Geología, Bogotá, Colombia
- **Silva-Tamayo, J.C.**, Bayona, G., Sial, A.N., Ocampo, N., Montealegre, M., Álvarez, A., Jiménez, H. C- And Sr- Isotope Age Constraining Oceanic Anoxia In Northern Colombia: Implications For Dating The Cretaceous Caribbean Oil System. AAPG International Convention and Exposition, Cartagena, Colombia
- **Silva-Tamayo, J.C.**, Payne, J.L., Wignall P.B., Newton R.J., Neubert, N, Brueske, A., Eisenhauer A., Weyer, S, Fietzke, J., Maher, K. Ca, Mo and U isotopes suggest Neoproterozoic-like ocean conditions during the Late Permian Mass Extinction. Goldschmidt conference, Florence, Italy.
- **Silva-Tamayo, J.C.**, Rosero, J.S., Sial, A.N., Pardo, A., Cardona, A. Sr-isotope

geochemistry as an alternative provenance and correlation tool of shallow marine carbonates. Environmetal Meeting, Ascona, Switzerland.

- Payne, J.L. Silva-Tamayo, J.C. Maher, K., Hinojosa, J., Jost, A.B., Brown, S., Chen J., , Paytan, A., Shen S., DePaolo, D.J., Eisenhauer, A., Lehrmann D.L., Altiner, D., Meiyi Y. Calcium isotope constraints on global carbon cycle dynamics during the end-Permian mass extinction, GSA-GSC joint meeting, Chendou, China
- Silva-Tamayo J.C., Weyer Stefan, Wignall P. B., Payne, J.L., Newton R. J., Neubert N., Brueske, A., Lau K., Maher K. Mo And U Isotope Evidence Of Ocean Euxinia During The End-Permian Mass Extinction, GSA-GSC joint meeting, Chendou, China
- Cardona, A. Montes, C., Bayona, G., Jaramillo, S., Lopez-Martinez, M., Silva-Tamayo, J.C., Valencia, V., Vanegas, J., Zapata, S. Timing tectonic processes associated to the Late Cretaceous to Paleogene transition from collision to subduction in the Northern margin of Colombia. AGU meeting of the Americas, Cancun, Mexico

2012

- Silva-Tamayo, J.C., Rosero, J.S., Sial, A.N., Machado, A., Pardo, A., Montes, C., Cardona, A., Zapata-Ramírez, P.A, Zapata, V., Ramirez, V., Nino H. Precise U-Pb dating of Cenozoic tropical reef carbonates: Linking the evolution of Cenozoic Caribbean reef carbonates to climatic and environmental changes. European Geosciences Union, Meeting
- Silva-Tamayo, J.C., Cardona, A., Bayona, G., Pardo, A., Sial, A. N., Valencia, V. Montes, C., Alvarez, A., Jimenez, H., Multi-Proxy Age Constrains Of Lower Cretaceous Marine Extension And Oceanic Anoxia In Northern Colombia: Paleogeographic Implications, GSA Cordilleran Meeting
- Silva-Tamayo, J.C., Cardona, A., Pardo, A., Ducea, M., Rosero, S., Montes, C., Valencia, V. Sr-Isotope Stratigraphy As An Alternative Provenance Tool Of Oligocene And Miocene Sediments Along Nw Colombia: Paleogeographic Implications For The Caribbean Plate- South America Interaction. GSA Cordilleran Meeting
- Quiroz, L., Buatois, L., Mangano, M., Cardona, A., Montes, C., Silva-Tamayo, J.C. Jaramillo, C. Miocene Deltaic Sedimentation In The Falcon Basin And Its Relation To Climate And Caribbean Tectonics. GSA Cordilleran Meeting
- Zapata, S., Cardona, A., Bayona, G., Bustamante, C., Silva-Tamayo, J.C., Valencia, V., Tracing Major Changes In Middle Mesozoic Plate Convergence In The Northern Andes: Insights From The Jurassic Magmatic Record Of Southern Colombia, GSA Cordilleran Meeting
- Cardona, A., Bayona, G., Jaramillo, S., Vanegas, J., Silva-Tamayo, J.C., Valencia, V., Quiroz, L., Pardo, A. Reading The Fragmentary Record Of Late Cretaceous To Eocene Arc-Continent Collision And Subduction Initiation In The Southern Margin Of The Caribbean, GSA Cordilleran Meeting

2011

- Silva-Tamayo J.C., Montes C, Cardona A, Jaramillo C, Bayona G, Ramirez V, Nino H, Ducea M, Sial A & Zapata V. The Interaction between Central and South America from Sr-Isotope Chemostratigraphy of Cenozoic Coral Reef Sucessions Goldshmidt conference, Prague
- Silva-Tamayo, J.C. Multi Isotope Tracers Of Oceanic Acidification And Deoxidification During The Precambrian And The Late Permian Biologic Crisis.

- Mantilla, G.; Pardo-Trujillo, A.; Pérez, E.; Borrero, C.; Silva, J.C.; Castillo, H. Distribución De Materia Orgánica Microscópica (Palinofacies) En Los Sedimentos Recientes De La Bahía De Tumaco (Pacífico Colombiano), Latin American geological Congress.
- Pardo, A.; Cardona, A., Silva-Tamayo, J.C., Borrero, C., John Edison. Geocronología U/Pb En Circones Detríticos Del Complejo Quebradagrande: Nuevos Datos Sobre La Procedencia De Los Sedimentos Cretáceos En La Margen Nw De Suramérica. Latin American geological Congress.
- Restrepo, L.C. Rosero, J.S., Arroyave, C., Borrero, C., Pardo, A., Silva-Tamayo, J.C., Cardona, A., Flores, J.A., Navarrete, R., Gómez, C. Estratigrafía Del Pozo Choco 1-St-S: Neógeno Del Pacífico Colombiano. Latin American geological Congress.
- Rosero, J. S.; Silva-Tamayo, J. C.; Pardo, A.; Ducea, M.; Echeverri, S.; Cardona, A.; Borrero, C.; Castillo, H.; Gómez, C. Cronoestratigrafía Del Tortoniano-Piacenziano Basada En Isotopos De Estroncio (Pozo Tumaco-1-St-S, Pacifico Colombiano). Latin American geological Congress.
- Rosero, J. S.; Borrero, C.; Pardo, A.; Cardona, A.; Silva, J.C.; Flores, A.; Navarrete, R.; Restrepo, L.; Arroyave, C.; Gómez, C. Estratigrafía De La Subcuenca San Jorge A Partir Del Estudio De Pozos Someros (Nw Colombia). Latin American geological Congress.

- 2009-2008**
- Silva-Tamayo J.C., Nägler T, Newton R, Wignall P, Grice K & Böttcher M. Global Shallow Marine Euxinia Triggering the Latest Permian Mass Extinction: Evidence from Mo-Isotopes. Goldshmidt Conference, Davos.
 - Silva-Tamayo, J.C., Nägler, T.F., Nogueira, A., Villa, I., Riccomini, C. Sial, A.N.. More evidences of a short lived global perturbation in the marine Ca-isotope composition in the aftermath of the 0.635 Ga global glaciation. 32nd International Geological Congress, Oslo, Norway, Abstracts

- 2007-2006**
- Silva-Tamayo, J.C., Nägler, T.F., Villa, I.M. Kyser, K., Sial, A.N., da Silva Filho, M.A. Narbone, G., James, N.P. Preservation of the sedimentary Ca-isotope composition in Neoproterozoic post-glacial cap-carbonates, 3rd Calcium workshop, Bohum, Germany, Abstracts, p.10
 - Silva-Tamayo, J.C.; Nägler, T.F. ; Villa, I.M.; Kyser, K.; Narbonne, G.M.; James, N.P.; Sial, A.N.; da Silva Filho, M.A. The aftermath of Snowball Earth: Ca- and Mo-isotope constraints on post-glacial ocean conditions. European Geoscience Union Annual Meeting, Vienna, Austria, Abstracts CD.
 - Silva-Tamayo, J.C.; Nägler, T.F.; Ifrim, C.; Stinnesbeck, W, Mo-isotopes evidence for widespread anoxia during OAE-2. European Geoscience Union Annual meeting, Vienna, Austria, Abstracts CD.
 - Silva-Tamayo, J.C., Sial, A.N., Ferreira, V.P., Pimentel, M.M., Arenas, J.E., Cediél, F., Jiménez Mejía, D.M., Estrada, J.J. C- AND Sr- isotope stratigraphy of Ediacaran carbonate successions in central and eastern Colombia: remnants of the Iapetus ocean, XI Brazilian Geochemical Congress, Sao Paulo, Brazil, Abstracts CD.
 - Silva-Tamayo, J.C., Nägler, T.F., Sial, A. N., Villa, I.M., Da Silva Filho, M.A.,. Ca-versus C-isotope stratigraphy of two post-Snowball Earth cap-carbonate successions in NE Brazil. XI Brazilian Geochemical Congress, Sao Paulo, Brazil, Abstracts CD.
 - Silva-Tamayo, J.C., Nägler, T.F., Villa, I.M. Kyser, K., Sial, A.N., Narbone, G.M,

James, N.P, da Silva Filho, M.A. Global Ca-isotope signatures in post-Snowball Earth cap-carbonates. Goldschmidt Conference, Collogne, Germany, Abstracts CD.

- Silva-Tamayo, J.C., Sial, A.N., Ferreira, V.P., Arenas, J., Jimenez, D., C-isotope stratigraphy of some Ediacaran-Cambrian carbonate successions in NW Gondwana. V South American Symposium on Isotope Geology, Punta del Este, Uruguay, Abstract CD.
- Silva-Tamayo, J.C., Nägler, T., Kyser, K., Narbone, G., James, N.P., Voegelin, A., Villa, I. Mo and Ca- isotopes of carbonate rocks as record of changes in post Snowball Earth oceans. 2nd IGCP 512 project, UNESCO, Ascona, Switzerland, p. 40.

Scientific Collaborations

Europe

Helmholtz Center of Ocean Research GEOMAR, Kiel, Germany.

Prof. Anton Eisenhauer and Dr. Jan Fietzke.

Leibniz University of Hanoover, Hanoover, Germany.

Prof. Stefan Weyer.

University of Leeds, Leeds, U.K.

Prof. Paul Wignall, Dr. Rob Newton and Dr. Rob Raiswell.

Graz University, Graz, Austria.

Dr. Sylvain Richoz.

University of Heidelberg, Heidelberg, Germany

Prof. Wolfgang Stinnesbeck.

Univeristy of Urbino, Urbino, Italy.

Prof. Rodolfo Coccioni.

University of Munster, Munster, Germany.

Prof. Harald Strauss.

USA-Canada

Stanford University, Palo Alto, CA, USA.

Prof. Jonathan Payne, Prof. Kate Maher.

University of California- Santa Cruz, Santa Cruz, CA, USA.

Prof. Adina Paytan.

University of California- Berkeley, Berkeley, CA, USA.

Prof. Don DePaolo.

Queen's University, Kingston, Canada.

Prof. Kurt Kyser.

Asia-Australia

Curtin University of Technology, Perth, Australia.

Prof. Kliti Grice.

Chinese Academy of Sciences, China.

Dr Qinjun Guo

South America

Universidade Federal de Pernambuco, Recife, Brazil

Prof. Alcides N. Sial.

Universidade de Sao Paulo, Sao Paulo, Brazil.

Prof.. Claudio Riccomini, Prof. Francisco Cruz.

Universidade Federal de Para, Belem, Brazil.

Prof. Afonso Nogueira.

Universidade Federal de Riogrande do Sul, Portoalegre, Brazil.

Prof. Marcio M. Pimentel.

Universidad Nacional de Colombia, Medellin, Colombia.

Dr. Agustin Cardona Molina.

Universidad de Caldas, Manizales, Colombia.

Prof. Andres Pardo.

Universidad de los Andes, Bogota, Colombia.

Prof. Camilo Montes.