



Curriculum Vitae

Mariano Remírez

Personal Information

Name: Mariano Ramirez

Nationality: Argentinian

Date of Birth: August, 5th 1989

Place of Birth: Cinco Saltos, Argentina

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Present Position

Postdoctoral Fellow at Centro de Investigaciones Geológicas, CONICET - Universidad Nacional de La Plata (Geological Research Center, National Research Council – National University of La Plata), Argentina.

Profile at (just click on the link): [Geological Research Center](#)

[National Research Council](#)

[ResearchGate](#)

[Google Scholar](#)

Education

- 2014 **Licenciado en Geología (Degree in Geology).** Facultad de Ciencias Naturales y Museo, Universidad Nacional de La Plata (College of Natural Sciences and Museum, National University of La Plata), Argentina. **GPA: 8.75 (8.75/10).**
- 2018 **Visiting Scholar – Fulbright Program.** Department of Geology, University of Cincinnati.
- 2019 **Profesorado Universitario (Graduate Diploma for Teaching).** Universidad del Este (Eastern University), Argentina.
- 2020 **Doctorado en Ciencias Naturales (Ph.D. in Natural Sciences – Geology).** Universidad Nacional de La Plata (National University of La Plata), Argentina.

Research Experience

- 2020-2021 Postdoctoral Fellow at Centro de Investigaciones Geológicas (Geological Research Center, National Research Council – National University of La Plata).
Project: *Geochemical characterization of the black shales of the Agrio Formation: paleoenvironmental implications for the Early Cretaceous of*

Neuquén Basin, Argentina. **Supervisor:** Dr. Lucía Gomez Peral (National University of La Plata – National Research Council) and Prof. Thomas Algeo (University of Cincinnati).

- 2018 **Visiting Scholar at Department of Geology**, University of Cincinnati. **Project:** *A test of the globality of the Triassic-Jurassic boundary greenhouse event in the Neuquén Basin, Argentina.* **Supervisor:** Prof. Thomas Algeo (University of Cincinnati).
- 2017 **Internship at Y-TEC S.A.** Project: Comparative use of Handheld FRX and Conventional FRX. Applications in unconventional resources exploration. **Supervisors:** Lic. Juan Pablo Álvarez, Universidad Tecnológica Nacional (National Technological University) - Y-TEC S.A. and Dr. Remigio Ruiz, Universidad Nacional de La Plata (National University of La Plata) - Y-TEC S.A.
- 2015-2020 **Ph.D. Student** at Centro de Investigaciones Geológicas (Geological Research Center, National Research Council – National University of La Plata). **Dissertation:** *Sedimentology and geochemistry of shales and carbonates of Pilmatué Member, Agrio Formation, Neuquén Basin, western Argentina.* Project founded by CONICET (National Research Council of Argentina) and Yacimientos Petrolíferos Fiscales (YPF S.A.; National Oil Company). **Supervisor:** Dr. Luis A. Spalletti (National University of La Plata – National Research Council) and Dr. Guillermina Sagasti (YPF S.A., National Oil Company).
- 2013-2014 **Undergraduate Internship** at Unconventional reservoirs management, Yacimientos Petrolíferos Fiscales (Y.P.F. S.A, National Oil Company). **Project:** *Sedimentology and Inorganic geochemistry of Quintuco-Vaca Muerta Formation.* **Supervisor:** Dr. Guillermina Sagasti (YPF S.A.), Dr. Luis A. Spalletti and Dr. Ernesto Schwarz (National University of La Plata-National Research Council)
- 2013 **Undergraduate Internship** at Centro de Investigaciones Geológicas (Geological Research Center). **Project:** *Methodology of studies of fine-grained marine successions in Neuquén Basin, with emphasis on Vaca Muerta Formation.* **Supervisor:** Dr. Luis A. Spalletti and Dr. Ernesto Schwarz (National University of La Plata-National Research Council)
- 2009 **High-School Internship** at Departamento de Química-Facultad de Ingeniería (Chemistry Department at College of Engineering, National University of Comahue). **Project:** *Minocycline adsorption on Na-Montmorillonite: pH effect.* **Supervisor:** Dra. Maria Eugenia Parolo and Miria Baschini (National University of Comahue)

Scientific Collaborations

- 2016 **National Research Council – University of La Plata** *Sedimentology and high-resolution stratigraphy of marine and continental Mesozoic successions in the Neuquén Basin, Argentina.* **Project leader:** Dr. Luis A. Spalletti, Dr. Ernesto Schwarz and Dr. Gonzalo Veiga (National University of La Plata-CONICET).
- 2013-2016 **National Research Council – University of La Plata – YPF S.A.** *High-resolution sedimentology for exploration and development.* **Project leaders:** Dr. Luis A. Spalletti, Dr. Ernesto Schwarz and Dr. Gonzalo Veiga (National University of La Plata-CONICET).

Publications

Scientific Papers

Remírez, M., Spalletti, L., Isla, M., Schwarz, E. Fine-grained distal deposits of a mixed siliciclastic-carbonate marine system: origin of mud and implications on mixing processes. *Journal of Sedimentary Research* (under review).

Isla, M., Schwarz, E., Veiga, G., Zuazo, J., **Remírez, M.**, 2021. Discriminating intra-parasequence stratigraphic units from two-dimensional quantitative parameters. *Journal of Sedimentary Research* (in press).

Remírez, M., Algeo, T., 2020a. Carbon-cycle changes during the Toarcian (Early Jurassic) and implications for regional versus global drivers of the Toarcian oceanic anoxic event. *Earth-Science Reviews* 209, 103283.

Remírez, M., Algeo, T., 2020b. Paleosalinity determination in ancient epicontinental seas: A case study of the T-OAE in the Cleveland Basin (UK). *Earth-Science Reviews* 201, 103072.

Remírez, M., Spalletti, L. A., Isla, M. F., 2020. Petrographic, mineralogical and geochemical characterization of fine-grained rocks of the Pilmatué Member (Upper Valanginian-lower hauterivian) of the Neuquén Basin (Argentina): Implications for siliciclastic input, carbonate productivity and redox conditions. *Journal of South American Earth Sciences* 102, 102663.

Isla, M. F., **Remírez, M.**, Schwarz, E., Veiga, G., 2020. Vertical changes in shoreline morphology at intraparsequence scale. *Latin American Journal of Sedimentology and Basin Analysis* 27 (2): 85-106.

Spalletti, L. A., **Remírez, M.**, Sagasti, G., 2019. Geochemistry of aggradational - progradational sequence sets of the Upper Jurassic – Lower Cretaceous Vaca Muerta shales (Añelo area, Neuquén Basin, Argentina): relation to changes in accommodation and marine anoxia. *Journal of South American Earth Sciences* 93: 495-509.

Gouiric-Cavalli, S., **Remírez, M.**, Kriwet, J., 2019. New pycnodontiform fishes (Actinopterygii, Neopterygii) from the Early Cretaceous of the Argentinian Patagonia. *Cretaceous Research* 94: 45-58.

Caramés, A., Martínez, M., Concheyro, A., **Remírez, M.**, Adamonis, S., 2019. Holothuroidea: new records from the Lower Cretaceous of the Agrío Formation, Neuquén Basin, Argentina. An integrated study with foraminifers and calcareous nannofossils. *Alcheringa* 43 (4): 580-596.

Caramés, A., Adamonis, S., Concheyro, A., **Remírez, M.**, 2018. New finding of regular echinoid elements and microfossils from the Pilmatué Member, Agrío Formation (Early Cretaceous), Neuquén Basin, Argentina. *Advances in South American Micropaleontology – Selected papers of the 11th Argentine Paleontological Congress* – Springer Earth System Science Series.

Abstracts in conferences

Remírez, M., Shen, J., Algeo, T. J., Wei, W., Gilleaudeau, G., 2021. Elemental paleosalinity proxies demonstrate freshwater conditions in Triassic-Jurassic boundary strata previously

assumed to be marine (Arroyo Malo Formation, Argentina). GSA Annual Meeting 2021. Submitted, under review.

Algeo, T., Wei, W., Gilleaudeau, G., Song, Y., **Remírez, M.**, 2020. Elemental proxies for salinity analysis of ancient shales and mudstones: Update and case studies. GSA Annual Meeting 2020.

Spalletti, L. A., **Remírez, M.**, Sagasti, G., 2018. Geoquímica, procesos depositacionales y geometrías sísmicas de la Formación Vaca Muerta (Neuquén): implicancias y controles. In: *XVII Reunión Argentina de Sedimentología*. General Roca, Río Negro.

Remírez, M., Algeo, T., 2018. Studies of the Triassic/Jurassic Boundary in Argentina: a review and prospective. In: *130th Annual Meeting Geological Society of America*. Indianapolis, USA.

Álvarez, J. P., **Remírez, M.**, Pierrard, M., 2017. Análisis del impacto de la composición geoquímica en el comportamiento mecánico de las rocas de grano fino. In: *XX Congreso Geológico Argentino, Sesión Técnica N° 12: Geología de los recursos energéticos*. San Miguel de Tucumán, Argentina.

Lazo, D., **Remírez, M.**, Schwarz, E., Thuy, B., 2017. Taphonomy of brittle stars associated with a tempestite bed from the Lower Cretaceous Agrio Formation of the Neuquén Basin, west-central Argentina. In: *8th International Meeting of Taphonomy and Fossilization (Taphos)*. Vienna, Austria.

Remírez, M., Spalletti, L. A., 2017. Geochemical characterization of offshore deposits in a mixed siliciclastic carbonate marine ramp. En: *33rd IAS – 16th ASF International Meeting of Sedimentology*. Toulouse, Francia.

Caramés, A., Adamonis, S., **Remírez, M.**, Barbé, M., Concheyro, A., 2016. Novedoso hallazgo de escleritos de equinoideos regulares en sedimentitas del Miembro Pilmatué, Formación Agrio (Valanginiano superior – Hauteriviano inferior), Cuenca Neuquina. In: *XI Congreso de la Asociación Paleontológica Argentina*. General Roca, Argentina.

Sagasti, G., **Remírez, M.** and Spalletti, L., 2015. Relationships between depositional processes, geochemical signatures and seismic geometries in the Vaca Muerta Formation, Neuquén Basin, Argentina. In: *Annual Convention and Exhibition, American Association of Petroleum Geologists*. Denver, USA.

Technical reports

Spalletti, L. A., Veiga, G., Schwarz, E., Argüello-Scotti, A., Isla, M., Álvarez Trentini, G., Coronel, M., **Remírez, M.**, Zuazo, J., 2017. "Informe de Actividades 2016-2017". *Convenio de Colaboración YPF S.A. – CIG (Tercera Fase)*. (Inédito). 148 pp.

Spalletti, L., Veiga, G., Schwarz, E., Olivo, M., Argüello-Scotti, A., Isla, M., Álvarez Trentini, G., Coronel, M. and **Remírez, M.**, 2016. "Informe de actividades 2014-2016". *Convenio de Colaboración YPF S.A. – CIG (Segunda Fase)*. (Inédito). 27 pp.

Teaching Experience

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| 2021- | Graduate Teaching Assistant in Sedimentology. Universidad Nacional de La Plata (National University of La Plata). |
| 2016-2020 | Graduate Teaching Assistant in Admission Course. Universidad Nacional de La Plata (National University of La Plata). |
| 2012-2015 | Student Teaching Assistant in Geochemistry. Universidad Nacional de La Plata (National University of La Plata). |

- 2012-2014 **Student Teaching Assistant in Admission Course.** Universidad Nacional de La Plata (National University of La Plata).
- 2012-2013 **Student Teaching Assistant in General Chemistry.** Universidad Nacional de La Plata (National University of La Plata).

Awards

- 2015 **Joaquín V. González Award.** Top ten GPA at Facultad de Ciencias Naturales y Museo, Universidad Nacional de La Plata and Municipalidad de La Plata (College of Natural Sciences, National University of La Plata and Municipality of La Plata).
- 2015 **Best average in Geology.** Facultad de Ciencias Naturales y Museo, Universidad Nacional de La Plata (College of Natural Sciences, National University of La Plata).
- 2005 **Silver medal.** Olimpiada Argentina de Química, Universidad de Buenos Aires (XV Argentinian Chemistry Olympiad, University of Buenos Aires).

Grants

- 2020-2021 **Postdoctoral Grant.** CONICET (National Research Council of Argentina).
- 2018 **GSA Mid-West Travel Grant GSA Annual Meeting.** Indianapolis, USA.
- 2018 **SEPM Travel Grant GSA Annual Meeting. Indianapolis, USA.**
- 2018 **Fulbright Grant.** Internship at University of Cincinnati, USA.
- 2017 **Post Graduate Scheme. Fundación Williams (Williams Foundation).**
- 2017 **Williams Foundation Travel Grant.** Short period Ph.D. staying at Germany and England, Fundación Williams (Williams Foundation).
- 2017 **IAS Travel Grant International 33rd Meeting of Sedimentologists.** Toulouse, France. International Association of Sedimentologists (IAS).
- 2017 **Registration Grant 20th Argentinian Geology Conference, Tucumán, Argentina.** Asociación Geológica Argentina (Argentinian Geological Association).
- 2017 **Post Graduate Scheme.** International Association of Sedimentologists.
- 2015-2020 **Ph. D. Grant.** CONICET (National Research Council of Argentina).
- 2013-2014 **Roberto Rocca Grant.** Roberto Rocca Education Program, Techint Group.
- 2009-2014 **Bicentenario Grant.** Ministerio de Educación de la Nación (Ministry of Education of Argentina).

Conferences Attended

- 2019 **Reunión de Comunicaciones de la Asociación Paleontológica Argentina (Argentinian Meeting of Paleontology).** La Plata, Argentina.
- 2019 **ICE 2019 (International Conference and Exhibition) of the American Association of Petroleum Geologist.** Buenos Aires, Argentina.
- 2019 **III Reunión Científico-Tecnológica del Centro de Investigaciones Geológicas. (III Scientific and Technological Meeting of the Geological Research Center).** La Plata, Argentina.
- 2018 **Fall 2018 Fulbright Enrichment Seminar.** San Diego, USA.
- 2018 **130th GSA Annual Meeting.** Indianapolis, USA.
- 2017 **33rd IAS – 16th ASF International Meeting of Sedimentology.** Toulouse, France.
- 2017 **II Reunión Científico-Tecnológica del Centro de Investigaciones Geológicas (II Scientific and Technological Meeting of the Geological Research Center).** La Plata, Argentina.
- 2017 **XX Congreso Geológico Argentino (XX Argentinian Geological Conference).** Tucumán, Argentina.
- 2016 **VII Congreso Latinoamericano de Sedimentología; XV Reunión Argentina de Sedimentología (VII Latin American Conference of Sedimentology; XV Argentinian Meeting of Sedimentology).** Santa Rosa, Argentina.
- 2016 **I Reunión de Fluidos y Deformación (I Meeting of Fluids and Deformation).** Buenos Aires, Argentina.
- 2015 **I Reunión Científico-Tecnológica del Centro de Investigaciones Geológicas (I Scientific and Technological Meeting of the Geological Research Center).** La Plata, Argentina.
- 2013 **Congreso en Docencia Universitaria (Conference of University Teaching).** Buenos Aires, Argentina.
- 2011 **XVIII Congreso Geológico Argentino (XVIII Argentinian Geological Conference).** Neuquén, Argentina.
- 2010 **X Congreso Argentino de Paleontología y Bioestratigrafía; VII Congreso Latinoamericano de Paleontología (X Argentinian Conference of Paleontology; VII Latin American Conference of Paleontology).** La Plata, Argentina.

Invited Speaker

- 2017 **External Speaker** – Basin Seminars of the School of Earth and Environmental Sciences. University of Manchester, United Kingdom.

Former Council Position

- 2018-2019 **Graduate Councilor.** Centro de Investigaciones Geológicas (Geological Research Center).
- 2016-2018 **Board Councilor.** Asociación Argentina de Sedimentología (Argentinian Association of Sedimentology).
- 2015-2017 **Graduate Councilor** in charge of teaching assistant selection for Facultad de Ciencias Naturales y Museo, Universidad Nacional de La Plata (College of Natural Sciences and Museum, National University of La Plata).

Student Projects Supervised

- 2021- **Victor Stedile** (BSc). Caracterización sedimentológica y geoquímica a partir de recortes de perforación de la Formación Cacheuta, Cuenca Cuyana, Argentina. Universidad Nacional de La Plata, Argentina.
- 2020- **Renata Taddei** (BSc). Análisis de las condiciones de meteorización registradas durante el Paleógeno temprano en la Formación Peñas Coloradas, Cuenca del Golfo San Jorge (sureste de la Patagonia Central). Universidad Nacional de La Plata, Argentina.
- 2020- **Juan Mendicino** (BSc). Análisis de la influencia de las tasas de sedimentación en la concentración de elementos redox-sensitivos en roca ricas en materia orgánica. Universidad Nacional de La Plata, Argentina.
- 2019-2021 **Tomás Navarro** (BSc). Estudio composicional y de procedencia de las areniscas fluviales de la Formación El Freno (Sinemuriano), sector sur-mendocino de la Cuenca Neuquina. Implicancias tectónicas y climáticas. Universidad Nacional de La Plata, Argentina.
- 2018-2020 **Joaquín Orzanco** (BSc). Variaciones en el aporte terrígeno, la productividad carbonática y las condiciones de óxido-reducción en depósitos marinos de grano fina de composición mixta. Universidad Nacional de La Plata, Argentina.

Memberships

Asociación Argentina de Sedimentología (Argentinian Association of Sedimentology).
International Association of Petroleum Geologists.
International Association of Sedimentologists.
SEPM-Society for Sedimentary Geology.
Canadian Society of Petroleum Geologists.
Geological Society of America.
Geochemical Society.

Reviewer

Earth Science Reviews. Elsevier, Netherlands.

Palaeogeography, Palaeoclimatology, Palaeoecology. Elsevier, Netherlands.

Science of the Total Environment. Elsevier, Netherlands.

Science. American Association for the Advancement of Science, USA.

Nature. Nature Publishing Group, United Kingdom.

Ciencia Hoy (Argentinian Scientific Magazine for Science Divulagation)

Science divulgation

- 2018 **Member of a Social Project "Sembrando Huella Ambiental" (Sowing environmental footprints)** teaching Geology to 10-16 year-old children, Facultad de Ciencias Aplicadas a la Industria, Universidad Nacional de Cuyo (College of Applied Sciences, National University of Cuyo, Mendoza, Argentina).
- 2015-2016 **Member of a Social Project "Vacaciones con Dinosaurios" (Holidays with Dinosaurs)** teaching Geology to 4-8 and 10-12 year-old children, Museo de Ciencias Naturales de La Plata (Museum of Natural Science of La Plata, National University of La Plata, Argentina).

Graduate Courses

- 2018 **Sequence Stratigraphy for Graduates Students.** Morgan Sullivan, Bret Dixonand, Orla McLaughlin. Indianapolis, USA.
- 2017 **Sedimentary Provenance Analysis.** Hilmar von Eynatten, István Dunkl, Guido Meinhold, Keno Lünsdorf. Göttingen, Germany.
- 2017 **Biomarcadores en la Exploración Petrolera.** Grony Garbán. Córdoba, Argentina.
- 2017 **Tafonomía y Análisis de Concentraciones Fósiles.** Darío Lazo, Dra. Graciela Bressan. General Roca, Argentina.
- 2017 **Docencia, profesión académica y políticas sobre la enseñanza y el aprendizaje en la Universidad.** Gabriel Asprella, Glenda Morandini, Luis Fernando Vílchez Martín. La Plata, Argentina.
- 2016 **Estructuras sedimentarias orgánicas: trazas fósiles, rizolitos, ESIM y estromatolitos.** Daniel Poiré, Sebastián Richiano, Jorge Genise, Victoria Sánchez. La Plata, Argentina.
- 2016 **Flows, deposits and stratigraphic record of deep-marine turbidite systems.** R.W.C. Arnott. La Plata, Argentina.
- 2015 **Fundamentos Epistemológicos de la Enseñanza de las Ciencias.** Osvaldo Cappanini, Daniel Badagnani, Diego Petrucci. La Plata, Argentina.

Communication skills

Spanish Mother tongue

English 2008 – **Preliminary English Test** – University of Cambridge
2009 – **First Certificate in English** – University of Cambridge

Computer skills

Proficient in MS Office, Adobe and Corel graphic packages. Skilled in geoscience software such as ArcView, ArcGIS, Origin and Surfer.