

Carina Seitz

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Centro Regional Universitario Bariloche (Universidad Nacional del Comahue- CONICET)

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PROFESSIONAL APPOINTMENTS

2022-Present. Research Assistant. Departamento de Geología y Petróleo, INIBIOMA, Centro Regional Universitario Bariloche (CRUB) (Universidad Nacional del Comahue-CONICET).

- Sampled and analyzed modern and sediment samples from aquatic ecosystem with emphasis in Patagonia.

2023- Present. Teaching Assistant, Department of Geology and Petroleum, Centro Regional Universitario Bariloche (CRUB), Universidad Nacional del Comahue.

- Teaching undergraduate courses in Biology, and Civil engineering.

2015-2023. Teaching Assistant, Department of Geology, Universidad Nacional del Sur.

- Teaching undergraduate courses in Biology and Geology

2020- Postdoctoral Fellow. Queen Elizabeth II Advanced Schollar. Department of Geology, University of Regina (SK, Canada).

- Analyze Paleoclimate record as a tool to understand the effect of future climate change on shallow lakes.

2021-2021 Postdoctoral Researcher, Department of Biology- Global Water Center, University of Nevada, Reno.

- Limnological and Paleoecological studies on Mountain Lakes.
- Experiments on quagga mussels survival to changing physical and chemical conditions.

2019-2022. Postdoctoral fellow CONICET - National Council of Scientific and Technical Research Instituto Argentino de Oceanografía (IADO-CONICET), Bahía Blanca (Buenos Aires, Argentina).

- Regime shift on shallow Pampean Shallow Lakes.

2010-2013. Environmental consultant for the firm Auditora 2000 S.A.

- Environmental monitoring and impact assessment
- Leader in management of hazardous wastes in Rally Dakar 2013 Peru-Argentina-Chile

EDUCATION

2019.- PhD fellow CONICET - National Council of Scientific and Technical Research. PhD Geology. Univesidad Nacional del Sur. Thesis: "Evolución geológica, geomorfológica y limnológica de lagunas pampeanas en el suroeste bonaerense"

2009.- B.S. Geology, Universidad Nacional de Rio Cuarto (UNRC) (Argentina). Honors thesis: "Neotectonic study of new sections of the Las Lagunas fault, Southern Córdoba Province, Argentina".

GRANTS

2022-2025. PI, "Respuesta de los lagos patagónicos a eventos geológicos, climáticos y antrópicos a través del tiempo". PICT-2020-SERIEA-005 48", Fondo para la Investigación Científica y Tecnológica (FONCYT, Argentina) [\$900]

2022-2024. Co-PI, “METABOLISMO LITORAL-BENTÓNICO Y PELÁGICO DE LAGOS PATAGÓNICOS - ¿CUÁN IMPORTANTE SON LAS COSTAS DE LOS LAGOS?” PI: Dr. Facundo Scordo. [\$ 900]

2022-2025. co-PI “Movimientos en masa subacuáticos: origen, peligrosidad y recurrencia de procesos tsunamigénicos en grandes lagos Patagónicos” funded by Fondo para la Investigación Científica y Tecnológica (FonCYT). PI: Debora Beigt. [\$40K]

2022.- Postdoctoral fellow National Scientific and Technical Research Council (CONICET)

2021-2022.- co-PI, “Invasive Quagga Mussel Survival Test for Pyramid Lake” funded by The Pyramid Lake Fisheries [\$178k]

2021-2022.- Project lead, “Impacts of Smoke-Ash from the 2021 Wildfires to the Ecology of Lake Tahoe” funded by Tahoe Science Advisory Council [\$210k]

2020. Postdoctoral Fellow, Queen Elizabeth II Advanced Schollar [\$24.8k]

2020- 2023- co-PI, “Análisis ambiental y biológico del Cenozoico tardío en el sudoeste de la provincia de Buenos Aires: relevancia de la región en el pensamiento evolutivo de Darwin” funded by Universidad Nacional Del Sur (UNS). PI: Dr. Rodrigo Tomassini. [\$168]

2014-2023- Researcher co-investigator, “Influencias climáticas y antrópicas en lagos de la Patagonia Argentina: hacia soluciones consensuadas con los actores sociales y tomadores de decisión”. Funded by CONICET and the Inter-American Institute for Global Change Research (IAI). PI: Dr. Gerardo M.E. Perillo. [\$40K]

2014- 2022- PhD student, “Proyecto Argentino de Monitoreo y Prospección de Ambientes Acuáticos (PAMPA2)” funded by National Scientific and Technical Research Council (CONICET). PIs: Dr. Horacio Zagarese and Dr Irina Izaguirre [\$1750]

2018-2022- PhD student, “Estudio Integrado de las Lagunas Pampeanas (Provincia de Buenos Aires)”. Funded by Universidad Nacional del Sur. PI: Dra Cintia Piccolo.

2017- 2020. PhD student, “Estudio Integrado de Estuarios Argentinos”. Secretaria General de Ciencia y Tecnología de la Universidad Nacional del Sur. PIs: Dra Cintia Piccolo y Dr. Gerardo M. E. Perillo

2016- 2020.- PhD student, “Evaluación de los Riesgos Ambientales Causados por la Variabilidad Climática e Influencia Antrópica en la Cuenca del Río Sauce Grande” PIO CONICET Universidad Nacional del Sur. PI: Dra Cintia Piccolo.

2016- 2019.- PhD student, “Evaluación Del Riesgo Ambiental Y Vulnerabilidad De La Cuenca Inferior Del Rio Negro”. Funded by Fondo Para La Investigación Científica y Tecnológica, Plan Argentina Innovadora 2020. PI: Dra Cintia Piccolo.

2014-2017- PhD co-investigator, “Sensing the Americas’ Freshwater Ecosystem Risk from Climate Change (SAFER)”. Funded by the Inter-American Institute for Global Change Research (IAI). PI: Dr. Gerardo M.E. Perillo. [\$900K]

2016. Internship at the University of Regina (Sk, Canada) funded by Universidad Nacional del Sur and Sensing the Americas’ Freshwater Ecosystem Risk from Climate Change (SAFER) project grand [\$2.4K]

2014- 2019.- PhD fellow of National Scientific and Technical Research Council (CONICET)

PUBLICATIONS

2024.- Scordo F, **Seitz C**, Suenaga E, Piccolo MC, Chandra S, Amodeo M, Perillo GME. An inexpensive method for the measurement of photosynthetically active radiation profiles in waterbodies. *Aquatic Sciences* 86:68. <https://doi.org/10.1007/s00027-024-01082-x>

2024.- Scordo F, **Seitz C**, Abasto B, Spetter CV, Piccolo MC, Chandra S, Perillo GME. Habitat-specific metabolism and nutrient limitation within an oligotrophic Patagonian Lake. *Hydrobiologia*. <https://doi.org/10.1007/s10750-023-05449-3>

2024.- Bess Z, Koning A, Simmons J, Suenaga E, San Pedro A, Culpepper J, Scordo F, **Seitz C**, Rhoades S, McKinnon T, McKim R, Feher K, Tromboni F, Regan JW, Chandra S. Fish Diversity and

use of Nearshore and Open-Water Habitats in Terminal Lakes. Fisheries.

<http://dx.doi.org/10.1002/fsh.11028>

2024.- Alfonso MB, Scordo F, Epele L,..., **Seitz C** et al. FILLING THE GAP A Comprehensive Freshwater Network to Map Microplastics across Ecological Gradients in Argentina. Bulletin Limnology and Oceanography, ASLO. <https://doi.org/10.1002/lob.10641>

2023.- **Seitz C**, Scordo F, Suenaga E, Carlson EM, McMillen S, Gregory L, Chandra S. Salinity and pH effects on survival, growth, and reproduction of quagga mussels. PeerJ. <https://doi.org/10.7717/peerj.15450>

2023.- **Seitz C**, Kenney WF, Patterson-Boyarski B, Curtis JH, Velez MI, Glodzik K, Escobar J, Brenner M. Sea level changes and paleoenvironmental responses in a coastal Florida salt marsh over the last three centuries. Journal of Paleolimnology. <https://doi.org/10.1007/s10933-022-00275-4>

2023.- Scordo F, Girdner SF, San Pedro A, **Seitz C**, Chandra S. Deterioration of the Littoral–Benthic Ecosystem Following Recent Expansion of Signal Crayfish (*Pacifastacus leniusculus*) in the World's Clearest Large Lake. Ecosystems <https://doi.org/10.1007/s10021-023-00846-0>

2023.- Noble P, **Seitz C**, Lee S, Manoylov KM, Chandra S. Characterization of algal community composition and structure from the nearshore environment, Lake Tahoe (United States). Frontiers in Ecology and Evolution. <https://doi.org/10.3389/fevo.2022.1053499>

2023.- Kulkarni C, Jara I.A., Chevalier M., Benito X,..., **Seitz C**, et al. pSESYNTH project: Community mobilization for a multi-disciplinary paleo database of the Global South. Pages magazine, volume 31 (1). special section: advancing past socio–environmental systems science. <https://doi.org/10.22498/pages.31.1.30>

2023.- Facundo S, **Seitz C**, Fiorenza JE, Piccolo MC, Perillo GME. Human impact changes hydrological connectivity in a Patagonian fluvial basin. Journal of Hydrology: Regional Studies. <https://doi.org/10.1016/j.ejrh.2023.101315>

2022.- **Seitz C**, Velez MI, Perillo GME. Response of shallow lakes in the arid-semiarid Pampas of Argentina to Late Holocene hydroclimatic change. Quaternary International. <https://doi.org/10.1016/j.quaint.2021.09.016>

2022.- Scordo F., Lottig N. R., Fiorenza J. E., Culpepper J., Simmons J., **Seitz C**, et al. Hydroclimate variability affects habitat-specific (open water and littoral) lake metabolism. Water Resources Research, 58, e2021WR031094. <https://doi.org/10.1029/2021WR031094>

2022.- Scordo F, Sadro S, Culpepper J, **Seitz C**, Chandra S. Wildfire Smoke Effects on Lake-Habitat Specific Metabolism: Toward a Conceptual Understanding. Geophysical Research Letters, 49, e2021GL097057. <https://doi.org/10.1029/2021GL097057>

2021.- Toniolo MA, **Seitz C**, Perillo GME. Origin and evolution of tidal depressions in a tidal flat and their role in carbon sequestration in the Bahía Blanca Estuary (Argentina). Marine Geology. <https://doi.org/10.1016/j.margeo.2021.106467>

2021.- Scordo F, Chandra S, Suenaga E, Kelson JS, Culpepper J, Scaff L, Tromboni F, Caldwell TJ, **Seitz C**, Fiorenza JE, Williamson CE, Sadro S, Rose KC, Poulson SR. Smoke from regional wildfires alters lake ecology. Scientific Report. <https://doi.org/10.1038/s41598-021-89926-6>.

2020.- **Seitz C**, Scordo F, Vitale AJ, Velez MI, Perillo GME. The effects of extreme climatic events on the morphometry of shallow lakes: implications for sediment resuspension and littoral and pelagic zone distribution. Journal of South American Earth Science. <https://doi.org/10.1016/j.jsames.2020.102743>

2020.- Scordo F, Spetter CV, **Seitz C**, Piccolo MC, Perillo GME. Spatial and seasonal dynamics of water physical-chemical parameters in rivers and lakes of an Argentinian Patagonia basin. Environmental Earth Sciences, 79, 322. <https://doi.org/10.1007/s12665-020-09063-7>

2020.- Scordo F, **Seitz C**, Melo WD, Piccolo MC, Perillo GME. Natural and human impacts on the landscape modeling and hydrography of the Chico River basin (Argentinean Patagonia). Catena. <https://doi.org/10.1016/j.catena.2020.104783>

- 2020.-** López Blanco C, Rodríguez-Abaunza GA, **Seitz C**, Pérez L, Cuña-Rodríguez C, Fontana SL. Hydroclimatic variability in the Pampean Lagoon Laguna Blanca Grande (Buenos Aires, Argentina) inferred from a multi-proxy record. In Journal of South American Earth Science. <https://doi.org/10.1016/j.jsames.2020.103000>
- 2020.-** Genchi S.A., Vitale A.J., Perillo G.M.E, **Seitz C.**, Delrieux C.A. Mapping Topobathymetry in a Shallow Tidal Environment Using Low-Cost Technology. Remote Sensing 12, 1394, 17p. <https://doi.org/10.3390/rs12091394>
- 2020.-** Alfonso M.B., Scordo F., **Seitz C.**, Mavo Manstretta GM, Ronda A., Arias A.H., Tomba JP, Silva LI, Perillo G.M.E., Piccolo MC. First evidence of microplastics in andean and extra-andean Patagonian lakes from Argentina. Science of the Total Environment. 8 p. <https://doi.org/10.1016/j.scitotenv.2020.139385>
- 2019.-** **Seitz C.**, Velez M.I., Perillo G.M.E. Cenozoic Geologic Evolution of The Lower Colorado River Basin, Northern Patagonia, Argentina. Andean Geology. 46 (1): 131-152. <http://dx.doi.org/10.5027/andgeoV46n1-3060>
- 2018.-** Zilio M., **Seitz C.**, Scordo F., Gil V., Zapperi P., Costilla P., Huamantincio Cisneros M.A., Perillo G.M.E., Piccolo M.C. Is Collaborative Management Always Possible? The Case Of Sauce Grande River Basin, Argentina. The International Journal of River Basin Management. 27p. <https://doi.org/10.1080/15715124.2018.1546727>
- 2018.-** Vélez M.I., Conde D., Lozoya J.P., Rusak J.A., Garcia-Rodríguez F., **Seitz C.**, Harmon T., Perillo G.M.E, Escobar J., Vilarly S.P. Paleoenvironmental Reconstructions Improve Ecosystem Services Risk Assessment: Case Studies From Two Coastal Lagoons In South America. Water. 18p. <https://doi.org/10.3390/w10101350>
- 2018.-** Scordo F., **Seitz C.**, Melo W.D., Piccolo M.C., Perillo G.M.E. Assessment of geomorphological and hydrological changes produced by Pleistocene glaciations in a Patagonian basin. Journal of South American Earth Sciences 83 (2018) 195-209p. <https://doi.org/10.1016/j.jsames.2018.03.001>
- 2018.-** Scordo F., Lavender T.M., **Seitz C.**, Perillo V.L., Rusak, J.M., Piccolo M.C., Perillo GME. Modeling aquatic ecosystem services: assessing the role of site and region-specific attributes in determining model performance. Water. 42p. <https://doi.org/10.3390/w10111496>
- 2018.-** Alfonso, M.B, Brendel, A.S., Vitale, A.J., **Seitz, C.**, Piccolo M.C., Perillo G.M.E. Drivers of ecosystem metabolism in two managed shallow lakes with different salinity and trophic conditions: Sauce Grande and La Salada Lakes (Argentina). Water. 15p. <https://doi.org/10.3390/w10091136>
- 2017.** Scordo F., **Seitz C.**, Zilio M., Melo W.D., Piccolo M.C., Perillo G.M.E. 2016. Evolución de los Recursos Hídricos en el “Bajo de Sarmiento” (Patagonia Extra Andina): Impactos Naturales y Antrópico. Anuário do Instituto de Geociências, Vol 40 (2): p. 106-117. https://doi.org/10.11137/2017_2_106_117
- 2016.** **Seitz C.**, Scordo F, Zapperi P. Estudio Geomorfológico De Chamental (Provincia De La Rioja, Argentina) Como Base Para El Análisis De Riesgos Naturales. Revista Boletín Geográfico (ISSN 0326-1735). Boletín geográfico. Año XXXVII. N°38 - 2016, pp. 61 – 78. <http://170.210.83.53/htdoc/revele/index.php/geografia/article/view/1364/pdf>
- 2009.-** Sagripanti, G., Villalba D., Bettiol A., **C. Seitz.** Sismicidad y paleosismicidad en la región sur de la provincia de Córdoba. Análisis del peligro y riesgo sísmico asociado. Revista ASAGAI N° 23: 45-53. ISSN 1851-7838.

CONFERENCE PRESENTATIONS

- 2023.-Seitz C**, Scordo F, Vélez MI, Perillo GME. El origen y morfología de los lagos pampeanos condicionan sus respuestas al cambio climático y antrópico. IV Congreso Iberoamericano de

Limnología/ X Congreso Argentino de Limnología. July 31-August 4. Oral Presentation and abstract.

2023.-Seitz C, Scordo F, Vélez MI, Cottet Julieta, Villarrosa Gustavo. Análisis del efecto de la caída de tefras y su integración en la interpretación paleoecológicas y paleoclimática. IV Congreso Iberoamericano de Limnología/ X Congreso Argentino de Limnología. July 31-August 4. Buenos Aires. Oral Presentation and abstract.

2023.-Scordo F, **Seitz C**, Abasto B, Piccolo MC, Spetter CV, Perillo GME. Diferencias metabólicas y de limitación de nutrientes en la zona litoral-bentónica y pelágica de un lago oligotrófico de la Patagonia Argentina. IV Congreso Iberoamericano de Limnología/ X Congreso Argentino de Limnología. July 31-August 4. Oral Presentation and abstract.

2023.- Chandra S, Brahney J, Scordo F, **Seitz C**, Sadro S, Suenaga E, Carlson E, Tromboni F, Williamson C, Culpepper J, Rose K, Overholt E, Blaszczak J, Loria K. Wildfire Smoke: Distribution, Particle Characterization, and Impacts on Lakes. ASLO Aquatic Sciences Meeting. 4–9 June. Palma de Mallorca, Spain.

2022.- Tromboni F, Játiva-Guzmán C, Maasri A, Bernal S, Mohr S, Frank AH, Barth JAC, Dordoni M, Jähnig SC, Chandra C, **Seitz C**, Grossart HP. Effects of flow reduction and biodiversity decline on periphyton characteristics and carbon cycling. 36th Congress of the International Society of Limnology 7 – 10 August 2022. Oral Presentation and abstract.

2022.- Suenaga E, Scordo F, Culpepper JA, Chandra S, **Seitz C**. Changes in Ice Cover Regimes Influence Zooplankton Community Structure in Subalpine Castle Lake, California. JASM 2022 Grand Rapids, Michigan, May 14-20. Oral Presentation and abstract.

2022.- Seitz C., Vélez M.I., Perillo G.M.E. Environmental evolution of the lakes in the arid-semiarid Pampas of Argentina over the last millennium. IAL-IPA 2022 congress. San Carlos de Bariloche, Argentina. Oral Presentation and abstract.

2022.- Seitz C, Vélez MI, Perillo GME. Drivers of ecological change in the pampean lakes during the last millennium. Pre-IAL IPA: ECR virtual meeting, April 26-29. Oral presentation.

2022.- Seitz C, Scordo F, Suenaga E, Chandra S. Invasive Quagga Mussel: Potential Survival, Growth and Reproduction in a fresh to brackish water ecosystem. JASM 2022 Grand Rapids, Michigan, May 14-20. Oral Presentation and abstract.

2022.- Scordo F, Sadro S, Culpepper JA, **Seitz C**, Chandra S. Differential effects of wildfire smoke on habitat-specific pelagic and littoral lake metabolism. JASM 2022 Grand Rapids, Michigan, May 14-20. Oral Presentation and abstract.

2022.- San Pedro AP, Scordo F, **Seitz C**, Suenaga E, Chandra S. Contrasting Responses of Periphyton Growth to Nutrient Amendment across the Littoral-Benthic Habitat of a Mesotrophic Subalpine Lake (Castle Lake, CA). JASM 2022 Grand Rapids, Michigan, May 14-20. Oral Presentation and abstract.

2022.- Chandra S, Scordo F, Suenaga E, Kelson S, Culpepper J, Sadro S, **Seitz C**, Rose K, Williams C, Tromboni F, Poulsen S, Scaff L, Fiorenza J, Caldwell T. Smoke on the Water! The Influence Regional Wildfires on the Ecological Structure of Castle Lake (CA, USA). 36th Congress of the International Society of Limnology, August 7 – 10. Abstract.

2021.- Seitz C, Vélez MI, Perillo GME. Cambios en los regímenes de las lagunas pampeanas en el último milenio. XVII Reunión Argentina de Sedimentología y el VIII Congreso Latinoamericano de Sedimentología, Paraná, Argentina. Poster and abstract.

2020.- Seitz C, Vélez MI, Perillo GME. Drivers of regime shift in the Pampean lakes: a paleolimnological perspective. ASLO-2020 Joint Meeting in Madison, Wisconsin.

2018.- Vélez MI, Rusak JA, Conde D, Lozoya JP, **Seitz C**, Harmon T, Escobar Jaramillo JH, Perillo GME. Paleolimnological studies improve socio-ecological risk assessments: a tale of two lagoons. Poster. ASLO 2018 SUMMER MEETING, June 10-15, Victoria, BC, Canadá.

2018.- Toniolo MA, **Seitz C**, Perillo GME. Origen y evolución de las depresiones mareales de una planicie de marea del estuario de Bahía Blanca, Argentina. XVI Reunión Argentina de Sedimentología, General Roca, Río Negro, Argentina.

2018.- **Seitz C**, Vélez MI, Perillo GME. Inferencias Climáticas en base al registro sedimentario de la Laguna De Puan Durante El Holoceno. XVI Reunión Argentina de Sedimentología, General Roca, Río Negro, Argentina.

2018.- Mavo Manstretta GM, Payares Peña NB, **Seitz C**, Vitale A, Perillo GME. Morfología de Fondo de un Meandro en un Canal de Marea del Estuario de Bahía Blanca. Poster. X Jornadas Nacionales de Ciencias del Mar. July 30 -Aug 10, Universidad de Buenos Aires, Buenos Aires, Argentina.

2017.- Rodríguez Abaunza GA, López-Blanco C, Perez L, **Seitz C**, Cuña Rodriguez C, Oxman B, Bennett K, Fontana S. Late-Holocene Paleoenvironmental Changes of Laguna Blanca Grande (Buenos Aires, Argentina) Inferred From Multi-Proxy Lacustrine Records. Reunião Regional Paleo Rs, Rio Grande, Brasil.

2017.- Lavender TM, Scordo F, Perillo V, **Seitz C**, Brendel AS, Rusak JA, Arnott SE, Schamp BS, Wemple BC, Perillo GME. Aquatic ecosystem Services: Improving seasonal surface and ground water models for northern climates. Canadian Conference for Fisheries Research and Society of Canadian Limnologists (CCFFRS/SCL). January 5-8, Montreal, Canadá.

2017.- Lavender TM, Scordo F, Perillo V, **Seitz C**, Brendel AS, Rusak JA, Arnott SE, Wemple BC, Perillo GME, Piccolo MC, Caicedo MIV. "InVESTing in Aquatic Ecosystem Services: Improving conservation decision-making with the incorporation of a seasonal cryosphere in the modelling of water quantity" Poster GLEON 19, Mohunk Lake, New York, USA.

2016. **Seitz C**, Vitale JA, Perillo GME, Piccolo MC. "Bathymetry and morphometry of Pampean shallow lakes: an approach to the origin and productivity". Poster GLEON 18 meeting, July 4 – 8, Lunz and Gaming, Austria.

2016. Scordo F, **Seitz C**, Melo WD, Piccolo MC, Perillo GME. "Dinámica Geomorfológica De La Cuenca Del Río Senguer". Poster. 3ras Jornadas de Tecnologías de la Información Geográfica del Sur Argentino. August 24-26, Bahía Blanca.

2016. Scordo F, Perillo V, Lavender M, **Seitz C**, Brendel AS. "Preliminary results: Implementing the Seasonal Water Yield model (INVEST NAT-CAP) for three different watersheds across the Americas. The impact of GLEON fellowship program on SAFER student work experience". Poster GLEON 18 meeting. July 4 – 8, Lunz and Gaming, Austria.

2014. **Seitz C**, Vitale AJ, Perillo GME, Piccolo MC. Estudio geomorfológico de la laguna La Salada empleando un vehículo autónomo no tripulado. Poster. XXVII Reunión Científica de la Asociación Argentina de Geofísicos y Geodestas. November 10-14 San Juan, Argentina.

2014. **Seitz C**, Vitale AJ, Perillo GME, Piccolo MC. "Geomorphologic Study of La Salada Lake (Argentina) Employing Unmanned Autonomous Vehicle". Poster GLEON 16 meeting. Orford, Québec, Canadá, October 27- 31.

2014. Costilla PS, Bertoni B, **Seitz C**, Zapperi PA, Piccolo MC, Perillo GME. Initial progress of the SAFER education program about lake conservation and use. Poster GLEON 16 meeting, de Orford, Québec, Canadá, October 27- 31.

2014. Alfonso B, Bertoni B, Costilla P, Scordo F, **Seitz C**, Serna Zapata Y, Zapperi P, Rusak J. A SAFER integration of aquatic ecosystem risk assessment across the Americas. Poster. CNAES 2nd Annual Meeting & HQP Workshop. April 30-May 2, Montréal, Québec -Université de Québec à Montréal (UQAM) <http://www.cnaes.ca/annual-meeting/>

2014. Alfonso B, Bertoni B, Costilla P, Scordo F, **Seitz C**, Serna Zapata Y, Zapperi P, Rusak JA. Student work in SAFER Project: an interdisciplinary study of aquatic ecosystem. Poster. Muskoka Summit on Environment: Environment vs Economy. Solving the Dichotomy. May 8-9. Bracebridge, Ontario. <http://muskokasummit.org/2014-summit/>

INVITED TALKS

2022. Guest lecture on Paleolimnology in the limnology class of Prof. Sudeep Chandra University of Nevada, Reno (Reno, USA)
2020. Workshop in statistics applied to paleoecology with R. University of Regina (SK, Canada)
2020. Workshop in GIS and identification of extreme events on lakes University of Regina (SK, Canada)
- 2014-2018. Guest lecture to secondary school Learning about La Salada shallow lake and its importance to the preservation (every year)

MENTORING OF STUDENTS

2020.-co-supervisor of Brittany Boyarski for the honor thesis: "Paleoenvironmental reconstruction and sea level variations based on diatom analysis of Cedar Key salt marsh, Florida USA" at the University of Regina, Canada.

EVALUATION

- 2023.-** Ad-hoc reviewer book chapter Pampean Lakes. Springer Nature
- 2023.-** Ad-hoc reviewer article JOURNAL OF PALEOLIMNOLOGY
- 2022.-** Ad-hoc reviewer Hydrobiologia ISSN: 0018-8158. Código del trabajo: HYDR-D-22-00239
- 2022.-** Doctoral committee of B.S. Carla Santamans. Thesis: "Reconstrucciones paleoambientales y paleoclimáticas durante el Holoceno tardío en Vilama, Andes Centrales". Department of geology, Universidad Nacional de Córdoba.
- 2020.-** Ad-hoc reviewer JOURNAL OF PALEOLIMNOLOGY ISSN: 0921-2728. Código del trabajo: JOPL-D-20-00078_reviewer
- 2020.-** Ad-hoc reviewer JOURNAL OF PALEOLIMNOLOGY ISSN: 0921-2728. Código del trabajo: JOPL-D-20-00039_reviewer
- 2020.-** Ad-hoc reviewer ENVIRONMENTAL MONITORING AND ASSESSMENT ISSN: 0167-6369 Código del trabajo: EMAS-D-20-00510
- 2020.-** Ad-hoc reviewer CATENA ISSN: 0341-8162 Código del trabajo: CATENA12212
- 2020.-** Ad-hoc reviewer journal Boletín de la Sociedad Geológica Mexicana ISSN: 1405-3322. Código del trabajo: Olivares-Casillas

INTERNATIONAL NETWORKS

- 2022.-** Regional Representative C-S América of Past Global Change (PAGES) network
- 2022.-** Participant in the project pSESYNTH: The whole is not the sum of the parts: building a synthesis database of past human-environmental systems in the Global South (pSESYNTH). Funded by INQUA. <https://psesynth-project.github.io/online/>
- 2022.-** Participant of the Red de Diatomólogos Hispanohablantes. Leading the publication working group.

SKILLS AND LANGUAGES

- Spatial processing and analysis with GIS libraries in R, ArcView and QGIS.
- Data processing, analysis and visualization using R.
- Proficient in English; native Spanish speaker.