**Curriculum vitae- Dr. Gonzalo David Sottile**

**Place and date of Birth**: Mendoza, Argentina- 27th November 1983

**Address**: Alberti street 1181, Mar del Plata city, Buenos Aires Province, Argentina.

**e-mail**: gonzalo\_sottile@yahoo.com.ar **Additional information**: Married, 1 child.

**Profile**

I’m a botanist with palynological background. My interests are related with paleoecology of fire, past vegetation reconstruction, biogeography, systematic botany and biodiversity. I have a permanent position as Paleoecology Assistant Researcher at the National Council of Science and Technology (CONICET, Argentina) and a Professor assistant in Plant Biology at the Biology Department of the Natural Science Faculty of The National Mar del Plata University. I am the curator of the tracheophytes´collection in the MDQ herbarium since 2009.

**Career**

**Institutions and positions**

01.12.2019- present. Professor assistant (permanent position) in Plant Biology at the Biology department of the Natural Science faculty, Mar del Plata National University.

01.12.2016- present. Assistant Researcher at the Council of Science and Technology (CONICET, Argentina).

0.2.04.2014-30.11.2016. Mar del Plata National University, Marine and Coastal Research Institute, Post- Doc.

2009-2014; 2016-2019. Professor assistant on Plants Systematics and Plant biology.

01.05.2009- 01.04.2014. Mar del Plata National University, Natural Sciences faculty, Biology Department, Paleoecology and Palynology Lab, PhD student.

01.03.2009-present. Curator of the Tracheophytes´collection at the MDQ herbarium.

**Education**

2015-2017. Postgraduate Certificate as Educator in Biology. National Technology University, Buenos Aires, Argentina.

2009-2014. PhD in Biological sciences. Thesis tittle: Vegetation history related to fire disturbances during the Holocene at the forest-steppe ecotone in Santa Cruz, Argentina.

2004-2008. Mar del Plata National University, Natural Sciencies faculty, Batchelor studies in Biology.

**Fields of research:** Palynology, Plants diversity and ecology, Paleoecology, Earth sciences.

**Students supervision at the MDQ herbarium:** Batchelor in Biology students: Azul Acuña (2019), Marita Schawb (2019), Gonzalo Burgos (2018-2019) and O’ Connor, Tomás (2018-2019), Jennyfer Saya (2017).

**Students supervision at the Paleoecology and Palynology Lab**

2015. Batchelor student: Morales Serradel, Álvaro. Project: Plants diversity patterns analysis at forest and steppe Patagonian environments (Argentina).

2012. Short internship of Max Troncoso, PhD student at Concepción University (Chile). Project: Charcoal analysis as a fire proxy record to reconstruct past fire history of Chilean Northern Patagonia.

**Publications**

Suárez P A, **Sottile G D**, Fernández Honaine M, Alvarez F, Borrelli N, Mancini M V (2019). Colección de Lycophyta, Monilophyta, Gimnospermas y Angiospermas Monocotiledóneas del Herbario MDQ de Plantas Vasculares del Instituto de Investigaciones Marinas y Costeras (IIMyC, UNMdP-CONICET/FCEyN). Version 1.5. Instituto de Investigaciones Marinas y Costeras, CONICET-Universidad Nacional de Mar del Plata/Facultad de Ciencias Exactas y Naturales. **Occurrence dataset**[**https://doi.org/10.15468/bej8hr**](https://doi.org/10.15468/bej8hr)**accessed via GBIF.org on 2019-11-21**

**Sottile, G.D.**, Suárez, P.A., O´Connor, T., Burgos Herrera, G., Schwab, M.A., Wraage, C.P., Acuña, A.L.A. y Mancini, M.V. 2019. New record of *Sagittaria montevidensis* at the Pampa Austral eco-region. Bol. Soc. Argent. Bot. 54 (Supl.): 241, XXXVII Jornadas Argentinas de Botánica. ISSN: 0373-580X.

O´Connor, T., Burgos Herrera, G., Schwab, M.A., Wraage, C.P., Acuña, A.L.A., **Sottile, G.D.**, Suárez, P.A. y Mancini, M.V. 2019. Description of the CUGB-UNMDP as a potential botanical garden at Mar del Plata city. The analysis of the impact of different educational strategies. Bol. Soc. Argent. Bot. 54 (Supl.): p.153, XXXVII Jornadas Argentinas de Botánica. ISSN: 0373-580X.

Suárez, P.A., **Sottile, G.D**., Fernández Honaine, M., Borrelli, N., Alvarez, F., O´Connor, T., Burgos Herrera, G., Masone, O.A. y Mancini, M.V. 2019. MDQ: Herbarium of the Institute of Marine and Coastal Research (UNMdP- CONICET). Its importance for the study of plant diversity. Bol. Soc. Argent. Bot. 54 (Supl.): 253, XXXVII Jornadas Argentinas de Botánica. ISSN: 0373-580X.

Echeverría, M.E., **Sottile, G.D.**, Bamonte, F.P., Marcos, M.A. y Mancini, M.V. 2019. Evenness patterns of plant communities from Patagonia during the Holocene. Bol. Soc. Argent. Bot. 54 (Supl.): 278-279, XXXVII Jornadas Argentinas de Botánica. ISSN: 0373-580X.

Echeverría, M.E., **Sottile, G.D.**, Mancini, M.V. y Fontana, S.L.2018. New insights into postglacial vegetation dynamics and environmental conditions of Península Avellaneda, southwest Patagonia, revealed by plant macrofossils and pollen analysis. Mires and Peat, Volume 21, Article 20, 1–18, http://www.mires-and-peat.net/, ISSN 1819-754X.

 **Sottile, G.D.**, Giaché, Y.S. y Bianchi, M.M. 2018. Fire regime reconstruction in Patagonian temperate ecosystems based on charcoal and pollen records during the Late Quaternary. Methodological trends, results and perspectives. In: A.R. Prieto (Ed.), Metodologías y estrategias del análisis palinológico del Cuaternario tardío. Publicación Electrónica de la Asociación Paleontológica Argentina 18 (2): 102–119. <http://dx.doi.org/10.5710/PEAPA.23.07.2018.262>

Mancini, M.V., Bamonte, F.P., Marcos, M.A., **Sottile, G.D.** y Echeverría M.E. 2018. Paleoecological analyses and methods for forest and steppe communities’ reconstruction in Patagonia, Argentina. In: A.R. Prieto (Ed.), Metodologías y estrategias del análisis palinológico del Cuaternario tardío. Publicación Electrónica de la Asociación Paleontológica Argentina 18 (2): 77–101. <http://dx.doi.org/10.5710/PEAPA.11.07.2018.256>

**Sottile, G.D.**, Burgos Herrera, G., O´Connor, T., Saya, J. y Mancini, M.V.2018. Representación de la Flora Pteridológica (Lycophyta y Monilophyta) del SE del Sistema de Tandilia en la colección del IIMyCher (Lycophytes and Monilophytes from the orographic system of Tandilia at the IIMyCher-MDQ- collection). ACTA DE RESÚMENES, XIII Encuentro de Biólog@s en Red. ISSN: 1853-3426

**Sottile, G.D.**, Tonello, M.S., Fernández Honaine, M., Alvarez, F. Borrelli, N. Chiaradía, N. Isaach, J.P. 2018. Caracterización preliminar de la Flora de la reserva municipal Faro Querandí (Preliminary description of the Flora at Faro querandí natural reserve). ACTA DE RESÚMENES, XIII Encuentro de Biólog@s en Red. ISSN: 1853-3426

Echeverría, M.E., Bamonte, F.P., Marcos, M.A., **Sottile, G. D.** y Mancini, M.V. 2017. Paleohydric balance variations in Eastern Andean environments in southern Patagonia (48°-52.5° S): Major trends and forcings during the last ca. 8000 cal yrs BP. Review of Palaeobotany and Palynology. 246: 242-250.

**Sottile, G.D**., Echeverría, M.E., Mancini, M.V., Bianchi, M.M., Marcos, M.A., Bamonte, F.P. 2015. Eastern Andean environmental and climate synthesis for the last 2000 years BP from terrestrial pollen and charcoal records of Patagonia. Climate of the Past discussions. 11: 2121- 2157.

**Sottile, G.D.**, Meretta, P.E., Tonello, M.S., Bianchi, M.M. y Mancini, M.V. 2015. Disturbance induced changes in species and functional diversity in southern Patagonian forest-steppe ecotone. Journal of Forest ecology and Managment. 353: 77-86.

Bamonte, F.P, Mancini, M.V., **Sottile, G.D.**, Marcos, M.A. y Gogorza, C. 2015. Vegetation dynamics from Lago San Martín area (southwest Patagonia, Argentina) during the last 6500 cal. Yrs BP. Vegetation History and Archaeobotany, 24 (2): 267-277.

Echeverría, M.E., **Sottile, G.D.**, Mancini, M.V. y Fontana, S.L. 2014. Nothofagus forest dynamics and palaeoenvironmental variations during the mid and late Holocene, in southwest Patagonia. The Holocene. 24: 957- 969.

Mancini, M.V., Mourelle, D., Sottile, G.D. y Thevenon, M. Plantas Vasculares. 2014. Sistemática, evolución y morfo-ecología de las traqueofitas. Editorial Universidad Nacional de Mar del Plata. 344 p. ISBN 978-987-544-615-1. (Tittle translation: Systematics, evolution and morphoecology of thacheophytes).

**Sottile, G.D.**; Bamonte, F.P; Mancini, M.V; Bianchi, M.M. 2012. Insights into Holocene vegetation and climate changes at the Southeast of the Andes: Nothofagus forest and Patagonian steppe fire records. The Holocene. 22 (11): 1309-1322.

**Sottile, G.D**., Echeverría, M.E., Marcos, M.A., Bamonte, F.P., Mazzolari, A.C., Mourelle, D., Patterlini, C. y Fernández, N. 2011. Flora de las sierras de Mar del Plata y Balcarce: Conocer para conservar, en Massone H. (comp.), Laguna de los padres y la Brava, un recurso natural y social para cuidar y compartir. ISBN: 978-987-544-404-1.

Sottile, G.D., Echeverría, M.E., Marcos, M.A., Bamoonte, F.P., y Mazzolari, A. 2009. Fire effect over vegetation composition on three Tandilia ranges. Bol. Soc. Argent. Bot. 44 (Supl.): p.103, XXXII Jornadas Argentinas de Botánica. ISSN: 0373-580X.

**Selected conferences and workshops dissertation**

**Sottile, G.D**., Bunting., M.J., Tonello, M.S., Mancini, M.V., Marcos, M.A., Palacios, P. 2019. Quantitative pollen- vegetation modelling of Patagonian High Andean steppe and Tree-line communities. 20th INQUA Congress, Dublin, Ireland, 25- 31 july.

**Sottile, G.D.**, Echeverría, Marcos, E., Tonello, M.S., Mancini, M.V., Meretta, P.E. 2019. Exploring vegetation resilience of the Subantarctic Patagonian communities by ecological modelling and the analysis of Holocene records. 20th INQUA Congress, Dublin, Ireland, 25- 31 july.

**Sottile, G.D.**, Tonello, M.S., Mancini, M.V.2016. Potentiality of past vegetation land cover reconstruction in forest-high Andean steppe ecotone of Southern Patagonia, Argentina. First results. XIV International Palynological Congress, X International Organisation of Palaeobotany Conference; Salvador, Brasil, del 22-28 October.

**Sottile, G.D.**, Mancini, M.V, Marcos, M.A., Bamonte, F.P., Echeverría M.E. 2014.Eastern Andean environmental and climate synthesis for the last 1500 years BP from terrestrial pollen and charcoal records of Patagonia. LOTRED- SA 3rd International Symposium. Climate change and human impact in Central and South America over the last 2000 years. Observations and Models, Medellín, Colombia 9-11 July.

**Sottile, G.D.**, Marcos, M.A., Bamonte, F.P., Echeverría M.E., De Porras, M.E., Tonello, M.S., Mancini, M.V., Bianchi, M.M. 2013. Eastern Andean Patagonia (40º-51ºS) vegetation and climate variability during the Holocene related to southern westerlies fluctuations. PAGES 2nd Young Scientist Meeting, Goa, India, 11-12 February.

Sottile, G., Marcos, M.A., Bamonte, F.P., Echeverría M.E., De Porras, M.E., Tonello, M.S., Mancini, M.V., Bianchi, M.M. Eastern Andean Patagonia (40º-51ºS) vegetation and climate variability during the Holocene related to southern westerlies fluctuations and recent human interactions. Impacts on Patagonian forests and steppe plants communities. 4th PAGES Open Scientist Meeting, Goa, India, 13- 16 February.

**Selected Grants and Research Projects**

Argentinian coastal ecosystems: structure, functioning, dynamics and management strategies (PUE 2016-0011, CONICET). Scientific role: Research collaboration

Temperature quantitative reconstruction in Patagonian Andes (49°S) since the Middle Holocene. (ANPCYT 2017-2020, PICT-2016-0249). Scientific role: Research collaboration

Biodiversity and ecosystems changes analysis at the tree-line of the southwestern Santa Cruz forests (49-50°S). Reconstructing the up/downward tree-line displacements during the last 1500 years. (ANPCYT, 2016-2019, PICT 1687). Scientific role: Project leader researcher.

Changes on past plant diversity patterns at different communities from Patagonia during the last 2000 years. Scientific role: Research collaboration (ANPCYT 2016- 2020, PICT- 2015-0763). Scientific role: Research collaboration

Pampa grasslands, Patagonian steppe and forest communities dynamics during the Holocene (UNMdP, 2016-2019, EXA807/16). Scientific role: Research collaboration

Climate change impact over the plant communities of southern Patagonia since the Pleistocene-Holocene transition. 2015-2018. PIPCONICET112220150100414.