De Benedetti Facundo, PhD student

INSTITUTIONAL AFFILIATION: Paleontological Museum Egidio Feruglio, Av. Fontana 140, PC 9100, Trelew, Chubut Province, Argentina.

EMPLOYMENT STATUS: Ph.D. student of the University of Buenos Aires (UBA), with a fellowship granted by the Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET) of the Argentinian Government.

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PROFILE

I am interested in all aspects of Paleobotany and Palynology. My Ph.D. thesis is focused on the palynology of the La Colonia Formation (Late Cretaceous and Early Paleocene), Chubut Province, Argentina. This will allow a better understanding of the regional and continental biogeographical patterns during a period of critical changes in northern Patagonia.

EDUCATION

2016 - present. PhD student at the University of Buenos Aires, Argentina. Thesis: Palynology of the La Colonia Formation. Systematics, Biostratigraphy and Paleoecology.

2015. Bachelor of Paleontology. Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina. Thesis: Study of dominant megaspores in the La Colonia Formation (Late Cretaceous, Chubut, Argentina).

REFERENCES

Néstor R. Cúneo, Paleontological Museum Egidio Feruglio, CONICET, Trelew, Chubut Province, Argentina: rcuneo@mef.org.ar

María del C. Zamaloa, Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina: mzamaloa@ege.fcen.uba.ar

María A. Gandolfo, L. H. Bailey Hortorium, Plant Biology Section, School of Integrative Plant Science, Cornell University, Ithaca, New York, U.S.A: mag4@cornell.edu

PROFESSIONAL AFFILIATIONS

Botanical Society of America (BSA)

International Association of Plant Taxonomist (IAPT)

Asociación Paleontológica Argentina (APA)

PARTICIPATION IN PROJECTS

Project Title: Collaborative Research: Patagonian Fossil Floras, the Keys to the Origins, Biogeography, Biodiversity, and Survival of the Gondwanan Rainforest Biome. National Science Foundation (NSF)

Principal Investigator/co-Principal Investigator(s): Maria Gandolfo-Nixon

GRANTS

2019. BSA Developing Nations Travel Grant. Botany Conference, Tucson, Arizona, USA.

AWARDS

2019. Isabel Cookson Award, Botany Conference, Tucson, Arizona, USA (for the paper "Late Cretaceous heterosporous water ferns from Patagonia: assessing monomegaspory"). This award was established for the best contributed paper in paleobotany or palynology at the annual meeting.

PUBLICATIONS

De Benedetti, F., Zamaloa, M.C., Gandolfo, M.A., and Cúneo, N.R., (*in press*). Reinterpretation of *Paleoazolla* Archangelsky, Phipps, Taylor et Taylor: a heterosporous water fern from the Late Cretaceous of Patagonia Argentina. *American Journal of Botany*.

Hermsen, E.J., Jud, N.A., De Benedetti, F., and Gandolfo, M.A., 2019. *Azolla* sporophytes and spores from the Late Cretaceous and Paleocene of Patagonia, Argentina. *International Journal of Plant Sciences*. 180(7), 737-754.

De Benedetti, F., Zamaloa, M.C., Gandolfo, M.A., and Cúneo, N.R., 2018. Heterosporous ferns from Patagonia: the case of *Azolla*. In M. Krings, C.J. Harper, N.R. Cúneo, G.W. Rothwell, eds. *Transformative paleobotany: Papers to commemorate the life and legacy of Thomas N. Taylor*. Pages 361–373. Academic Press, London and Oxford, U.K., and San Diego and Cambridge, U.S.A.

SCIENTIFIC MEETINGS

De Benedetti, F., M.C. Zamaloa, M.A. Gandolfo, N.R. Cúneo, 2019. Diversification of heterosporous water ferns during the Late Cretaceous of Patagonia. Abstract ID 261. Botany 2019, Tuscon, Arizona, July 27–31, 2019. Talk.

De Benedetti, F., M.C. Zamaloa, M.A. Gandolfo, N.R. Cúneo, 2019. Late Cretaceous heterosporous water ferns from Patagonia: assessing

monomegaspory. Abstract ID 117. Botany 2019, Tuscon, Arizona, July 27–31, 2019. Talk.

De Benedetti, F., M.C. Zamaloa, M.A. Gandolfo, N.R. Cúneo, 2019. Maastrichtian palynoflora from north-central Patagonia, Argentina. Abstract ID 612. Botany 2019, Tuscon, Arizona, July 27–31, 2019. Poster.

De Benedetti, F., M.C. Zamaloa, M.A. Gandolfo, N.R. Cúneo, 2019. Helechos acuáticos heterosporados en el Cretácico Tardío de Patagonia: evaluando el origen de la monomegasporía. III Reunión Argentina de Biología Evolutiva. Universidad de Buenos Aires, Argentina. Talk.

De Benedetti, F., 2018. Diversidad de helechos acuáticos heterosporados en el Cretácico Tardío de Patagonia (Formación La Colonia, Provincia de Chubut, Argentina). Reunión de Comunicaciones de la Asociación Paleontológica Argentina 2018. Talk.

4th International Paleontological Congress. Mendoza Province, Argentina. 2014. Assistant.

XV Simposio Argentino de Paleobotánica y Palinología, II Simposio Argentino de Melisopalinología. Corrientes Province, Argentina. 2012. Assistant.

FIELD WORK EXPERIENCE

2020 – Assisted to a paleontological campaign to the Miocene of Pinturas Formation, Santa Cruz Province and Danian Salamanca Formation, Chubut Province, Argentina.

2019 - Assisted to a paleontological campaign to the Eocene of Laguna del Hunco Formation, Chubut Province, Argentina.

2018 - Assisted to a geological and paleontological campaign to the Late Cretaceous of La Colonia Formation, Chubut Province, Argentina.

2017 - Assisted to a paleontological campaign to the Late Cretaceous of La Colonia Formation, Chubut Province, Argentina.

2014 - Assisted to a paleontological campaign to the Permian of the Tepuel-Genoa Basin, Chubut Province, Argentina.