

Leandro Domingos-Luz

Ph.D. student

Department of Earth & environmental Sciences

University of Kentucky

106 Slone Research Building, Lexington, KY 40506

leandro.luz@uky.edu (202) 250 4337

EDUCATION

Doctor of Philosophy, April 2019

State University of Maringá, Department of Geography

Dissertation Title: Fluvial geomorphology and hydrodynamics of the Paraguay-Cuiabá confluence: Pantanal wetlands, Brazil (in Portuguese)

Advisor: Dr. Mauro Parolin

Master of Science, March 2014

State University of Maringá, Department of Geography

Dissertation Title: Paleoenvironmental aspects of the Late Quaternary in the Campo Mourão region, Paraná State, Brazil (in Portuguese)

Advisor: Dr. Mauro Parolin

Bachelor of Arts, December 2011

Paraná State University, Department of Geography

PROFESSIONAL APPOINTMENTS

August '20 – present

Teaching Assistant, University of Kentucky, Lexington, KY

EES110 – Environmental Geology (Fall '21)

EES160 – Geology for Teachers (Fall '20)

EES220 – Physical Geology (Spring '21)

January '16 – May '19

High School Geography Teacher, SESI Intl School, Maringá, Brazil

February '11 – December '15

High School Geography Teacher, Paraná State Board of Education, Maringá, Brazil

RESEARCH INTERESTS

- Reconstructing paleoclimates using phytoliths and isotopic proxies preserve in lake sediments
- Understanding changes in paleoecology of Tropical lakes and large wetlands
- Quantifying phytoliths assemblages to understand past climate changes and anthropic effects
- Combining paleoecological, paleoclimatological, archaeological datasets
- Determining lowland sediments provenance
- Promoting justice, equality, diversity, and inclusion in geosciences.

PUBLICATIONS

Books

Domingos-Luz, L., *Water Resources Management* (in Portuguese), 1st Ed., Maringá: Unicesumar, 2017.

Peer-reviewed papers

Domingos-Luz, L., Szupiany, R. N., Parolin, M., Silva, A., Stevaux, J.C. (2020) Obtuse-angle vs. confluent sharp meander bends: insights from the Paraguay-Cuiabá confluence in the tropical Pantanal wetlands, Brazil. *Geomorphology*, 348, 106907.

Rasbold, G., Stevaux, J., Parolin, M., Leli, I., **Domingos-Luz, L.**, Brito, H. (2020) Phytoliths indicate environmental changes correlated with facies analysis in a paleo island-lake, Upper Paraná River, Brazil. *Journal of South American Earth Sciences*, 99, 102513.

Rasbold, G. G., Stevaux, J. C., Parolin, M., Leli, I. T., **Domingos-Luz, L.**, Guerreiro, R. L., Brito, H. D. (2019). Sponge spicules as indicators of paleoenvironmental changes in island deposits—Upper Paraná River, Brazil. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 536, 109391.

Domingos-Luz, L., Parolin, M., Pessenda, L.C., Rasbold, G., Lo, E. (2019) Multiproxy analysis (phytoliths, stable isotopes, and C/N) as indicators of paleoenvironmental changes in a Cerrado site, Southern Brazil. *Revista Brasileira de Paleontologia*, v. 22(1), pp.15–29.

Stevanato, M., Rasbold, G., Parolin, M., **Domingos-Luz, L.**, Lo, E., Weber, P., Trevisan, R., Caxambu, M. (2019) New characteristics of the papillae phytolith morphotype recovered from eleven genera of Cyperaceae. *Flora*, v. 253, p. 49-55.

Domingos-Luz, L., Stevaux, J.C., Parolin, M., Silva, A. (2017) Hydrodynamics of the Cuiabá-Paraguay confluence, Pantanal Wetlands, Brazil (*in Portuguese*), *Revista do Departamento de Geografia*, Vol. Esp., pp. 1-10.

Domingos-Luz, L., Kalinovski, E.C.Z., Parolin, M., Souza-Filho, E.E. (2015) State-of-Art in phytoliths studies in Brazil (*in Portuguese*), *Revista Terrae Didactica*, 11, p. 52-64.

Domingos-Luz, L., Parolin, M. (2014) Caracterização dos sedimentos turfosos em Campo Mourão, Paraná, Brasil (*in Portuguese*), *Revista Brasileira de Geografia Física*, 07, pp. 319-326.

In Preparation for Submittal

Rasbold, G., Pinheiro, U., **Domingos-Luz, L.**, Dilworth, J., Thigpen, R., Pessenda, L.C., McGlue, M. First evidence of an extant freshwater sponge fauna in Jackson Lake, Grand Teton National Park, Wyoming (USA). Planned submittal to *Frontiers*

Domingos-Luz, L., McGlue, M., Rasbold, G., Novello, V., Cruz, F., Pupim, F., Kuerten, S., Silva, A. Late Quaternary climate changes and its implications for early human settlement in the Pantanal wetlands, Western Brazil. Planned submittal to *Quaternary Science Review*

CONFERENCES PRESENTATIONS

Domingos-Luz, L., Yost, C., McGlue, M. (2021) Influence of water depth in the phytolith assemblage preservation in Lake Tanganyika, East Africa. GSA Connects 21. *Oral Presentation*

McGlue, M., Dilworth, J., Johnson, H., Yeager, K., Thigpen, R., Woolery, E., Brown, S., Cearley, C., Clark, G., Dixon, S., Goldsby, R., Helfrich, A., Hodelka, B., Johnson, S., **Domingos-Luz, L.**, Powell, N., Rasbold, G., Swanger, W., Whitehead, S. (2021) Sublacustrine geomorphology and deep-water chemostratigraphy reveal effects of dam installation at Jackson Lake (Wyoming, USA) GSA Connects 21. *Oral Presentation*

McGlue, M., Silva, A., **Domingos-Luz, L.**, Lo, E., Rasbold, R., Novello, V., Cruz, F., Ivory, S., Pupim, F., Kuerten, S., Guerreiro, R., Gradella, F., Merino, E., Louzada, R., Parolin, M., Bergier, I., Stevaux, J., Assine, M. (2021) Latin American Congress of Sedimentology. *Virtual Oral Presentation*

Domingos-Luz, L., Lo, E., Stevaux, J., McGlue, M., Parolin, M., Silva, A., Rasbold, G. (2020) Seasonal variability of sediment transport and provenance in the distal Cuiabá megafan, Pantanal Wetlands, Brazil. GSA 2020 Connects online. *Virtual Poster Presentation*

RESEARCH GRANTS

A Modern Analog for Lacustrine Petroleum Source Rocks in the East African Rift Valley: Stratigraphy and Geochemistry of Recent Deepwater Sediments from Lake Tanganyika (<i>American Association for Petroleum Geologists AAPG – grants-in-aid</i>) (2021-2022)	\$3,000.00
Late Holocene Upwelling History in Lake Tanganyika (Tanzania), Southeast Africa (<i>Geological Society of America GSA – grants-in-aid</i>) (2021-2022)	\$2,300.00
Visiting Graduate Student Program (<i>National Lacustrine Core Facility – University of Minnesota</i>) (2021)	\$1,000.00
Ferm grant (<i>University of Kentucky</i>) (2021)	\$1,000.00

AWARDS

Earth Rates (financial support to attend GSA Connects 21 meeting in Portland, OR)	\$500.00
On To The Future (diversity program from GSA) (2021)	\$700.00
Pioneer Research Excellence Award (2020)	\$1,000.00
Royster Award (University of Kentucky) (2020)	\$3,000.00

Service to Department

- President (2021-2022) of Geoscience Graduate Group – G3
- Organizer Rast-Holbrook Seminar Series (2021-2022)
- Campus representative for Geological Society of America at University of Kentucky
- Graduate representative

Field Trip Experience

- Pantanal Wetlands, Brazil (April '15; November '15; April '16; November '16)
- Upper Paraná River, Brazil (June '13; August '18)
- West Lake Okoboji, Iowa (June '21)

Organization Memberships

- Geological Society of America
- Brazilian Geomorphology Union
- International Phytolith Society

Languages

- Portuguese (native speaker)
- English (fluent)
- Spanish (conversant)