
PATRICIA PIACSEK

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Birthdate: 27/12/1988 ♦ **Nationality:** Brazilian ♦ **Marital status:** Married

RESUME

My research line focuses on reconstructing the effects of climate and landscape variability throughout the geological past, especially during the Quaternary period. Using a variety of geochemical proxies, I seek to understand climatological dynamics and reconstruct paleoenvironments, continental hydrogeochemistry, and paleoceanography.

PROFESSIONAL HISTORY

Post Doc. 03/2022 - 03/2024

Universidad Nacional Autonoma de México (UNAM) - Querétaro, QRO

Post Doc. 12/2020 - 12/2021

Universidade Estadual do Rio de Janeiro (UERJ) - Rio de Janeiro, RJ

Researcher 04/2014 - 03/2016

PAM Membranas Seletivas LTDA, Brasil. - Rio de Janeiro, RJ

DIPLOMAS

Ph.D. Degree in Geoscience, Department of Environmental Geochemistry, 03/2016 - 07/2020

One year of joined Ph.D. in Goettingen University (Germany), 05/2017 - 04/2018

Universidade Federal Fluminense (UFF) - Rio de Janeiro, RJ

Master's Degree in Geoscience, Department of Environmental Geochemistry, 03/2012 - 04/2014

Universidade Federal Fluminense (UFF) - Rio de Janeiro, RJ

Bachelor's Degree in Biological Sciences, 03/2008 - 11/2011

Universidade Federal Fluminense (UFF) - Rio de Janeiro, RJ

LANGUAGES

Portuguese: Native

Spanish: Advanced

English: Advanced

French: Basic

AWARD

2021 - International Mobility Research Fellowship Program for Latin American and Caribbean early-career scientists on past global changes, Inter-American for Global Change Research-PAGES.

2017 - Scholarship Doctorate Abroad modality, Coordination for the Improvement of Higher Education Personnel (CAPES)

COURSES PROVIDED

1. Past, present, and future climate change. 2022. Universidade de São Paulo (USP).
2. Introduction to palynology and techniques for reconstructing Quaternary vegetation and climate. 2024. Universidade Federal Fluminense (UFF).

2024

Rodrigues, A. M. S.; L. Sobrinho, R.; Piacsek, P.; Bouloubassi, I.; Huguet, A.; Albuquerque, A. L. S.; Venancio, I. M.; Santos, T. P.; Cruz, J. F.; Mendez, M.; Bernardes, M. C. Late Quaternary Change in source and burial of organic carbon off Northeastern Brazil. (Submitted). *Quaternary Science Reviews*.

Nogueira J.; Evangelista, H.; Sifeddine, A.; ElMouden, A.; Bouchaou, L.; AitBrahim, Y.; Mendez-Millan, M.; Caquineau, S.; Piacsek, P.; Briceño-Zuluaga, F. J.; Boucher, H. Masrour, M.; Juříčková, L. Impacts of the African Humid Period termination may have been delayed in the Atlantic Sahara. (Submitted). *Communications Earth & Environment*. DOI: <https://doi.org/10.31223/X54M4C>

Piacsek, P.; Bernal, J.P.; Aliaga-Campuzano, M.P.; Chavero, L.B.; Cruz, F.W.; Strikís, N.; Corona, L.; Ruiz, V.M.R.; Rojas, H. Hydroclimate modulation of central-eastern Mexico by the North Atlantic Subtropical High since the Little Ice Age. (Submitted). *Quaternary Science Reviews*.

2023

1. Bernal, J.P.; Cu-Xi, M; Revolorio, F.; López-Martínez, R.; Piacsek, P.; Beddows, P.A.; Lachniet, M.S.; K. López-Aguilar, K.; Vázquez, O. Variability of trace-elements and $\delta^{18}\text{O}$ in drip water from Gruta Rey Marcos, Northern Guatemala. (2023). *Frontiers in Earth Science - Quaternary Science, Geomorphology and Palaeoenvironment*. DOI: [10.3389/feart.2023.1112957](https://doi.org/10.3389/feart.2023.1112957)

2022

2. Piacsek, P.; Bernal, J.P.; Raphaelli, J.T.A.; Santelli, R.E.; Strikis, N. (2022) Anthropogenic effects on climate and hydrology of Central Brazil. (2022). *PAGES Magazine*, V. 30, N.2, Pg 95. DOI: [10.22498/pages.30.2.119](https://doi.org/10.22498/pages.30.2.119)
3. Piacsek, P.; Behling, H.; Ballalai, J. M.; Rodrigues, A. M. S., Venancio, I. M., Strikis, N. M., Albuquerque, A. L. S. (2022). Response of vegetation to hydroclimate changes in northeast Brazil over the last 130 kyrs. *Palaeogeography, Palaeoclimatology, Palaeoecology*. DOI: [10.1016/j.palaeo.2022.111232](https://doi.org/10.1016/j.palaeo.2022.111232)
4. Nascimento, R; Shimizu, M.; Venancio, I.; Chiessi, C.; Kuhnert, H; Johnstone, H.; Govin, A.; Lessa, D.; Ballalai J.; Piacsek, P.; Mulitza, S.; Albuquerque, A. L. S. (2022). Warmer western tropical South Atlantic during the Last Interglacial relative to the current interglacial period. *Global and Planetary Change*. DOI: [10.1016/j.gloplacha.2022.103889](https://doi.org/10.1016/j.gloplacha.2022.103889)
5. Maksic, J.; Venancio, I. M.; Shimizu, M.H.; Alexandre, F.F.; Piacsek, P.; Sampaio, G.; Chiessi, C. M.; Nobre, C. (2022). Brazilian biomes distribution: past and future. *Palaeogeography, Palaeoclimatology, Palaeoecology*. DOI: [10.1016/j.palaeo.2021.110717](https://doi.org/10.1016/j.palaeo.2021.110717)

2021

6. Piacsek, P.; Behling, H.; Venancio, I. M.; Ballalai, J. M.; Nogueira, J.; Albuquerque, A. L. S. (2021). Reconstruction of vegetation and low latitude ocean-atmosphere dynamics of the past 130 kyr, based on South American montane pollen types. *Global and Planetary Change*. DOI: [10.1016/j.gloplacha.2021.103477](https://doi.org/10.1016/j.gloplacha.2021.103477)
7. Piacsek, P.; Behling, H.; Gu, F.; Venancio, I. M.; Lessa, D. V. O.; Belem, A.; Albuquerque, A. L. S. (2021). Changes in sea surface hydrography and productivity in the western equatorial Atlantic since the Last Interglacial. *Palaeogeography, Palaeoclimatology, Palaeoecology*. DOI [10 1016 /j palaeo 2020 109952](https://doi.org/10.1016/j.palaeo.2020.109952)

ABSTRACTS IN CONFERENCES

1. **Ampuero, A.; Cruz, F. W.; Vonhof, H.; Strikis, N. M.; Bernal, J. P.; Piacsek, P.; Ruiz, V. M. R.; Roig, F.; Vuille, M.** Competing influence of the South American summer monsoon and the Southern Hemisphere westerlies on the mid-latitude Argentine Andes over the last 15,000 years as recorded in speleothems from Las Brujas Cave. In: EGU General Assembly Conference Abstracts, 2024, Vienna. Abstract EGU24-17100, 2024.
2. **Ballalai, J. M.; Albuquerque, A. L. S.; Piacsek, P.; Venancio, I. M.; Santos, T. P.; Nascimento, R.; Dias, B.; Vazquez-Riveiros, N.; Costa, K. B.; Belem, A. L.** Increased zonal $\delta^{13}\text{C}$ gradient in the deep South Atlantic after the Mid-Brunhes Transition. In: EGU General Assembly Conference Abstracts, 2022, Vienna. EGU22-8018, 2022.
3. **Ballalai, J. M.; Albuquerque, A. L. S.; Piacsek, P.; Venancio, I. M.; Santos, T. P.; Nascimento, R.; Dias, B.; Vazquez-Riveiros, N.; Costa, K. B.; Belem, A. L.** South hemisphere high-latitude controls on AMOC deep water circulation sustaining the MBT. In: 6th PAGES Open Science Meeting (OSM), 2022, Agadir. PAGES AGADIR 2022 6th Open Science Meeting, 2022. v. 6. p. 1-338.
4. **Ballalai, J. M.; Albuquerque, A. L. S.; Piacsek, P.; Venancio, I. M.; Santos, T. P.; Nascimento, R.; Dias, B.; Vazquez-Riveiros, N.; Costa, K. B.; Belem, A. L.** Southern Hemisphere high-latitude processes promoting long-term AMOC circulation changes across the Mid-Brunhes Transition. In: 14th International Conference on Paleoceanography, 2022, Bergen. 14th International Conference on Paleoceanography, 2022.
5. **Piacsek, P.; Behling, H.; Albuquerque, A. L. S.** Ecological responses from the northeast of Brazil since the Last Interglacial inferred from palynomorphs analyses, in GeoBremen17, 2017, Bremen. Abstracts GeoBremen17, 2017.

ONGOING SUPERVISION

Doctoral thesis

1. Matheus Simões Santos. Climatic controls on soil erosion events: a contribution from the fluvial deposits of the Peruaçu River Karst Valley Caves-MG. Started: 2020. Thesis (PhD in Geosciences (Geochemistry)) - Fluminense Federal University, Coordination for the Improvement of Higher Education Personnel. (Co-advisor).

ORGANIZATION OF SCIENTIFIC DISSEMINATION EVENTS

1. Science Fair, Querétaro 2023. 2023. (Exhibition).
2. Earth Week, UNAM 2023. 2023. (Exhibition).
3. V UFF Biology Week and IV Environmental Education Day. 2010. (Congress).