



Andressa Monteiro Venturini

Postdoctoral Scholar, Biology

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BIO

Andressa M. Venturini has a bachelor's and licentiate's degrees in biological science from the Luiz de Queiroz College of Agriculture (ESALQ/USP). Venturini received her doctorate degree in science in 2019 from the Center for Nuclear Energy in Agriculture of the University of São Paulo (CENA/USP) in Brazil, having previously received a master's degree in science from the same institution in 2014. In 2021, her thesis received the USP Outstanding Thesis Award - 10th Edition in the area of Environmental Sustainability. She also spent a period abroad at the Netherlands Institute of Ecology (NIOO-KNAW) and, during her Ph.D., at the University of Oregon (UO). Venturini has previously worked at the Paulista University (UNIP) and as a postdoc at CENA/USP. She has experience in Soil Microbial Ecology, Molecular Biology, and Bioinformatics. Her research is focused on the microbial communities of tropical soils, their role in biogeochemical cycles, and how they are being impacted by land-use and climate change. During the 2021-22 academic year, Venturini was a Fung Global Fellow Postdoctoral Research Associate at Princeton University.

HONORS AND AWARDS

- USP Outstanding Thesis Award - 10th Edition - Area of Environmental Sustainability, University of São Paulo (USP - Brazil) (2021)
- 2nd Best Poster (co-author) - 1st Amazon Meeting, Brazilian Society of Biochemistry and Molecular Biology (SBBq - Brazil) (2019)
- Best Poster - 1st Amazon Meeting, Brazilian Society of Biochemistry and Molecular Biology (SBBq - Brazil) (2019)
- Best Scientific Abstract - VI Scientific Symposium of CENA Graduate Students, Graduate Students' Association (APG-CENA/USP - Brazil) (2013)
- Second Best Biological Photograph - X SerBio, Methodist University of Piracicaba (UNIMEP - Brazil) (2011)
- Honorable Mention - 56º Brazilian Congress of Genetics, Brazilian Society of Genetics (SBG - Brazil) (2010)
- Scientific Merit and Best Biomedical Theme, State University of Campinas (UNICAMP - Brazil) (2010)
- Third Best Poster - I Brazilian School of Bioinformatics, Brazilian Society of Computation (SBC - Brazil) (2008)

STANFORD ADVISORS

- Kabir Peay, Postdoctoral Faculty Sponsor

LINKS

- Twitter: https://twitter.com/andressa_mv
- Google Scholar: <https://scholar.google.com.br/citations?hl=pt-BR&user=WeepFV4AAAAJ>
- Research Gate: <https://www.researchgate.net/profile/Andressa-Venturini>
- Scholar - Princeton: <https://scholar.princeton.edu/aventurini>
- CV Lattes: <http://lattes.cnpq.br/0397458153073663>

Research & Scholarship

RESEARCH INTERESTS

- Data Sciences
- Environmental Education
- Research Methods
- Science Education

Publications

PUBLICATIONS

- **Shifts in functional traits and interactions patterns of soil methane-cycling communities following forest-to-pasture conversion in the Amazon Basin** *MOLECULAR ECOLOGY*
Alvarez, D., de Souza, L., Mendes, L., de Moraes, M., Tosi, M., Venturini, A., Meyer, K. M., de Camargo, P., Bohannon, B. M., Mazza Rodrigues, J. L., Dunfield, K. E., Tsai, S.
2023
- **Metagenome-Assembled Genomes from Amazonian Soil Microbial Consortia** *MICROBIOLOGY RESOURCE ANNOUNCEMENTS*
Mandro, J. A., Nakamura, F. M., Gontijo, J. B., Tsai, S. M., Venturini, A. M.
2022; 11 (11): e0080422
- **Increased soil moisture intensifies the impacts of forest-to-pasture conversion on methane emissions and methane-cycling communities in the Eastern Amazon** *ENVIRONMENTAL RESEARCH*
Venturini, A. M., Dias, N. S., Gontijo, J. B., Yoshiura, C. A., Paula, F. S., Meyer, K. M., Nakamura, F. M., da Franca, A. G., Borges, C. D., Barlow, J., Berenguer, E., Nusslein, K., Rodrigues, et al
2022; 212: 113139
- **Insights into the Genomic Potential of a Methylocystis sp. from Amazonian Floodplain Sediments.** *Microorganisms*
Gontijo, J. B., Paula, F. S., Venturini, A. M., Mandro, J. A., Bodelier, P. L., Tsai, S. M.
2022; 10 (9)
- **Molecular evidence for stimulation of methane oxidation in Amazonian floodplains by ammonia-oxidizing communities** *FRONTIERS IN MICROBIOLOGY*
Monteiro, G. N., Barros, D. J., Gabriel, G. M., Venturini, A. M., Veloso, T. R., Vazquez, G. H., Oliveira, L. C., Neu, V., Bodelier, P. E., Mansano, C. M., Tsai, S. M., Navarrete, A. A.
2022; 13: 913453
- **Metagenomes from Eastern Brazilian Amazonian Floodplains in the Wet and Dry Seasons** *MICROBIOLOGY RESOURCE ANNOUNCEMENTS*
Venturini, A. M., Gontijo, J. B., da Franca, A. G., Moura, J. S., Nusslein, K., Bohannon, B. M., Rodrigues, J. M., Tsai, S. M.
2022; 11 (8): e0043222
- **Genome-resolved metagenomics reveals novel archaeal and bacterial genomes from Amazonian forest and pasture soils.** *Microbial genomics*
Venturini, A. M., Gontijo, J. B., Mandro, J. A., Paula, F. S., Yoshiura, C. A., da Franca, A. G., Tsai, S. M.
2022; 8 (7)
- **Responses of Low-Cost Input Combinations on the Microbial Structure of the Maize Rhizosphere for Greenhouse Gas Mitigation and Plant Biomass Production** *FRONTIERS IN PLANT SCIENCE*
Yoshiura, C., Venturini, A., Perez Braga, L., da Franca, A., Catanho Pereira de Lyra, M., Tsai, S., Rodrigues, J.
2021; 12: 683658
- **Not just a methane source: Amazonian floodplain sediments harbour a high diversity of methanotrophs with different metabolic capabilities** *MOLECULAR ECOLOGY*
Gontijo, J. B., Paula, F. S., Venturini, A. M., Yoshiura, C. A., Borges, C. D., Moura, J. S., Bohannon, B. M., Nusslein, K., Mazza Rodrigues, J. L., Tsai, S. M.
2021; 30 (11): 2560-2572
- **Combined use of vinasse and nitrogen as fertilizers affects nitrification, ammonification and denitrification by prokaryotes** *Frontiers in Soil Science*
De Chaves, M. G., Venturini, A. M., Merlotti, L. F., Barros, D. J., Rossetto, R., Kuramae, E. E., Tsai, S. M., Navarrete, A. A.

2021

- **Belowground changes to community structure alter methane-cycling dynamics in Amazonia** *ENVIRONMENT INTERNATIONAL*
Meyer, K. M., Morris, A. H., Webster, K., Klein, A. M., Kroeger, M. E., Meredith, L. K., Braedholt, A., Nakamura, F., Venturini, A., de Souza, L., Shek, K. L., Danielson, R., van Haren, et al
2020; 145: 106131
- **Metagenome assembled-genomes reveal similar functional profiles of CPR/Patescibacteria phyla in soils** *ENVIRONMENTAL MICROBIOLOGY REPORTS*
Lemos, L., Manoharan, L., Mendes, L., Venturini, A., Pylro, V., Tsai, S.
2020; 12 (6): 651-655
- **Robust DNA protocols for tropical soils** *HELIYON*
Venturini, A., Nakamura, F., Gontijo, J., da Franca, A., Yoshiura, C., Mandro, J., Tsai, S.
2020; 6 (5): e03830
- **Aulas práticas de laboratório como método de ensino de genética molecular** *Revista De Graduação USP*
Venturini, A. M., de Souza, L. F., Dias, N. M., Monteiro-Vitorello, C. B., Quecine, M. C.
2018; 3 (2)
- **Differential Response of Acidobacteria Subgroups to Forest-to-Pasture Conversion and Their Biogeographic Patterns in the Western Brazilian Amazon** *FRONTIERS IN MICROBIOLOGY*
Navarrete, A. A., Venturini, A. M., Meyer, K. M., Klein, A. M., Tiedje, J. M., Bohannon, B. M., Nuesslein, K., Tsai, S. M., Rodrigues, J. M.
2015; 6: 1443
- **Métodos de detecção de organismos geneticamente modificados** *Fundamentos técnicos e sistema nacional de biossegurança em biotecnologia*
Cannavan, F. S., Venturini, A. M., Nakamura, F. M., Yoshiura, C. A., da França, A. G., Tsai, S. M.
2015