



APPOINTMENT

K. Lisa Yang Center for Conservation Bioacoustics, Cornell Lab of Ornithology, Cornell University

2022 Extension Associate

Universidad Autónoma de Madrid, Madrid, Spain

2020-2021 Postdoctoral Research Fellow, Departamento de Ecología

EDUCATION

Universidade Estadual Paulista – Unesp, Rio Claro, SP, Brazil

2019 Ph.D., Ecology
Programa de Pós-graduação em Ecologia e Biodiversidade

Universidade Federal de Mato Grosso do Sul – UFMS, Campo Grande, MS, Brazil

2014 M.S., Ecology
Programa de Pós-graduação em Ecologia e Conservação

2010 B.A., Biological Sciences

PEER-REVIEWED PUBLICATIONS

- 2023 V Tonetti, JC Pena, MDA Scarpelli, **LSM Sugai**, FM Barros, PR Anunciação, PM Santos, ALB Tavares, MC Ribeiro. Landscape heterogeneity: concepts, quantification, challenges and future perspectives. *Environmental Conservation* 50:83-92.
- 2022 I Alcozer, H Lima, **LSM Sugai**, D Llusia. Acoustic indices as proxies for biodiversity: a meta-analysis. *Biological Reviews* 97:2209-2236.
- 2022 P Anunciação, **LSM Sugai**, F Martello, LMT Carvalho, MC Ribeiro. Estimating the diversity of tropical anurans in fragmented landscapes with acoustic monitoring: lessons from a sampling sufficiency perspective. *Biodiversity and Conservation* 31:3055-3074.
- 2021 **LSM Sugai**, D Llusia, T Siqueira, TSF Silva. Revisiting the drivers of acoustic similarities in tropical anuran assemblages. *Ecology* 102: e03380
- 2021 **LSM Sugai**, TSF Silva, D Llusia, T Siqueira. Drivers of assemblage-wide calling activity in tropical anurans and the role of temporal resolution. *Journal of Animal Ecology* 90:673-684.
- 2020 B Anäis, C Elodie, S Jerome, **LSM Sugai**, D Llusia. Climatic breadth of calling behaviour in widespread tropical anurans: insights from hydric extremes. *Global Change Biology* 26:5431-5446.
- 2020 AL Regolin, MC Ribeiro, F Martello, GL Melo, J Sponchiado, LFC Campanha, **LSM Sugai**, TSF Silva. Spatial heterogeneity and habitat configuration overcome habitat composition influences on alpha and beta mammal diversity. *Biotropica* 52:969:980.
- 2020 **LSM Sugai**. Pandemics and the need for automated systems for biodiversity monitoring. *Journal of Wildlife Management* 84:1424-1426.
- 2020 **LSM Sugai**, C Desjonquères, TSF Silva, D Llusia. A roadmap for survey designs in terrestrial acoustic monitoring. *Remote Sensing in Ecology and Conservation* 6:220-235.

- 2019 **LSM Sugai**, JLMM Sugai, VL Ferreira, TSF Silva. Satellite image texture for the assessment of tropical anuran communities. *Biotropica* 51:581-590.
- 2019 **LSM Sugai**, D Llusia. Bioacoustic time capsules: Using acoustic monitoring to document biodiversity. *Ecological Indicators* 99:149-152.
- 2019 **LSM Sugai**, TSF Silva, JW Ribeiro Jr, D Llusia. Terrestrial Passive Acoustic Monitoring: Review and Perspectives. *BioScience* 69:15-25.
- 2019 WM Tomas, FO Roque, ... **LSM Sugai**, ... WJ Junk. Sustainability Agenda for the Pantanal Wetland: Perspectives on a Collaborative Interface for Science, Policy, and Decision-Making. *Tropical Conservation Science*, doi: 10.1177/1940082919872634.
- 2018 CA Martins, M Silveira, VS Saito, R Costa-Pereira, **LSM Sugai**, O Pays, FO Roque. Phylogenetic structure of communities between temperate and tropical regions: Exploring patterns through literature datasets. *Acta Oecologica* 91:30-34.
- 2017 JW Ribeiro, **LSM Sugai**, M Campos-Cerdeira. Passive acoustic monitoring as a complementary strategy to assess biodiversity in the Brazilian Amazonia. *Biodiversity and Conservation* 26:2999-3002.
- 2017 **LSM Sugai**, G Nakamura, JLMM Sugai, TSF Silva. *Scinax nasicus* (Lesser Snouted Treefrog). Predation by *Trachycephalus typhonius*. *Herpetological Review* 48:613-614.
- 2016 M Stefanescu, JM Ochoa-Quintero, FO Roque, **LSM Sugai**, LR Tambosi, R Lourival, S Laurance. Incorporating resilience and cost in ecological restoration strategies at landscape scale. *Ecology and Society* 21:54.
- 2016 FO Roque, J Ochoa-Quintero, DB Ribeiro, **LSM Sugai**, R Costa-Pereira, R Lourival, G Bino. Upland habitat loss as a threat to Pantanal wetlands. *Conservation Biology* 30:1131-1134.
- 2015 **LSM Sugai**, JM Ochoa-Quintero, R Costa-Pereira, FO Roque. Beyond aboveground. *Biodiversity and Conservation* 24:2109-2112.
- 2014 R Costa-Pereira, JLM Sugai, S Duleba, **LSM Sugai**, J Terra, FL de Souza. Predation on *Physalaemus centralis* by *Leptodactylus chaquensis*. *Herpetology Notes* 8:345-346.

BOOKS

- 2017 FO Roque, S Torrecilha, J Ochoa-Quintero, F Valente-Neto, **LSM Sugai**, R Costa-Pereira, P Medina-Junior, G Fernandes, J Onofre, N Kaminski, J Sabino, R Lourival. *Capital Natural de Mato Grosso do Sul*. 1. ed. Bonito (MS): Fundação Neotrópica do Brasil. 60p.

TECHNICAL SKILLS

Language: Portuguese (mother tongue), English (fluent), Spanish (intermediate).

Coding: R (experienced) and Python (basic).

FUNDED GRANTS

- 2022-2024 Ecoacústica aplicada ao monitoramento de anuros no Pantanal sul e entorno. Fundect (MS, Brazil). Co-PI. R\$81,560.02
- 2021-2023 GEO-Microsoft Planetary Computer Programme. *Machine listening to monitor climate change impacts on neotropical amphibians*. Project co-leader. US\$ 59 919 plus computational credit of US\$ 55 620.
- 2019 Coordenação de Aperfeiçoamento de Pessoal de Nível Superior PROAP (817737/2015). PI. R\$ 1,000.

- 2018-2022 Ministerio de Economía, Industria y Competitividad (España). “*El sonido de la biogeografía: Estimando los impactos del cambio climático en anfibios mediante nuevas tecnologías de seguimiento acústico*” (CGL2017-88764-R). Project co-leader. 74.173€
- 2018-2019 Fundação de Amparo à Pesquisa do Estado de São Paulo, FAPESP. PI. \$26,218.2.
- 2016-2020 Instituto Nacional de Ciência e Tecnologia EECBio. Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq, Brazil). “*Monitoramento acústico automatizado em larga escala de anfíbios anuros*”. Project co-leader. €120,000.
- 2016-2019 Fundação de Amparo à Pesquisa do Estado de São Paulo, FAPESP. R\$30,925.8.
- 2016 Rufford Foundation Small Grant. PI. £4,975.
- 2016 Coordenação de Aperfeiçoamento de Pessoal de Nível Superior PROAP (817737/2015). PI. R\$ 2,655.
- 2016 Coordenação de Aperfeiçoamento de Pessoal de Nível Superior Procad 071/2013. PI. R\$ 1,100.

Scholarships

- 2020-2021 Ministerio de Economía, Industria y Competitividad (Gobierno de España / Fondo Social Europeo).
- 2016-2019 Fundação de Amparo à Pesquisa do Estado de São Paulo, FAPESP.
- 2015-2016 Coordenação de Aperfeiçoamento de Pessoal de Nível Superior, CAPES.
- 2012-2014 Conselho Nacional de Desenvolvimento Científico e Tecnológico, CNPq.
- 2010 Programa Institucional de Bolsas de Iniciação Científica – PIBIC/CNPq/UFMS.
- 2008-2009 Programa Institucional de Bolsas de Iniciação Científica – PIBIC/CNPq/UFMS.

TEACHING EXPERIENCE

Instructor

- 2022-2023 Indonesia-Malaysia Bioacoustics Equipment & Mentorship Award Program.
- 2017 Biogeography, Universidade Estadual Paulista Júlio de Mesquita Filho.
- 2014 Landscape Ecology course, Universidade Federal de Mato Grosso do Sul, Brazil.
- 2010 Pantanal Herpetology field course.

SEMINARS AND WORKSHOPS

- 2023 The XXVIII International Bioacoustics Congress – IBAC. Organizer of symposium “*Community ecoacoustics: from patterns to mechanisms of assemblages*”.
- 2022 Ecolunch seminars, Ecology and Evolutionary Biology, Purdue University. “*Acoustic sensing for biodiversity and ecological research*”.
- 2021 On-line seminar, Projeto Bromeligenous: “*Bases do Monitoramento Acústico da Biodiversidade: Planejamento e Análises*”.
- 2020 II workshop INCT/EECBio “Monitoramento acústico automatizado em larga escala de anfíbios anuros”.
- 2019 I workshop INCT/EECBio “Monitoramento acústico automatizado em larga escala de anfíbios anuros”.
- 2019 IX Congresso Brasileiro de Herpetologia.”*O Monitoramento Acústico Passivo como ferramenta para estudos com anuros*”. Campinas, SP, Brazil.
- 2019 Universidad Autónoma de Madrid, “*Biodiversity remote sensing: from satellite images to acoustics for the assessment of tropical assemblages*”.

- 2014 II workshop Project "Estudos de Biodiversidade do Zoneamento Ecológico Econômico do Mato Grosso do Sul" (Campo Grande, Brazil).
- 2014 I workshop Project "Estudos de Biodiversidade do Zoneamento Ecológico Econômico do Mato Grosso do Sul" (Campo Grande, Brazil).

CONFERENCE PRESENTATIONS

- 2023 The XXVIII International Bioacoustics Congress – IBAC. Oral presentation. *"Insights into the temporality of anuran communities enabled by a collaborative network of acoustic monitoring"*. Oral presentation.
- 2022 Annual meeting of the Animal Behavior Society, Symposium Bioacoustics in Tropical Forests *"Amphibian calling behavior under contrasting climates: lessons from a collaborative network in Brazil"*. San José, Costa Rica. Oral presentation.
- 2021 I Congresso Brasileiro de Bioacústica. *"Um bê-a-bá do Monitoramento da biodiversidade através da Bioacústica"* (online). Oral presentation.
- 2021 ISE Ecoacoustics Congress 2021. *"The rise and fall of biophony and the drivers of the acoustic space"*. Virtual meeting. Oral presentation
- 2019 1st Meeting of the Iberian Ecological Society & XIV AEET Meeting. *"Are community-wide signaling patterns driven by acoustic interactions?"*. Barcelona, Spain. Oral presentation.
- 2014 5º Simpósio de Geotecnologias no Pantanal-Geopantanal. *"Incorporating biodiversity expert knowledge in landscape conservation planning: a case study involving the Pantanal"*. Campo Grande, MS, Brazil. Oral presentation.

EDITORIAL RESPONSABILITIES

2021-present Remote Sensing in Ecology and Conservation

REFEREE

Total peer reviews: 52

Methods in Ecology and Evolution (4), Functional Ecology (1), Journal of Animal Ecology (1), Ecological Indicators (4), Conservation Biology (2), Ecography (2), Remote Sensing in Ecology and Conservation (2), Biodiversity and Conservation (2), Plos One (6), Ecological Informatics (2), Bioacoustics (2), Biotropica (2), Austral Ecology (1), Ecosphere (1), Ecology and Evolution (2), Ibis (2), Ardea (2), Biota Colombiana (1), PeerJ (2), Frontiers in Ecology and Evolution (2), Environmental Monitoring and Assessment (1), Journal of Ecoacoustics (1), Herpetological Conservation and Biology (3), Wildlife Research (1), Zootaxa (1), Conservation Science and Practice (1), Journal of Herpetology (1), Basic and Applied Herpetology (1)

Scientific evaluation

2022 German Federal Ministry of Education and Research.

2023 Regular Fondecyt National Projects Competition, Chile.

Supervision

Co-supervisor

11/2022 – 11/2026 (Ph.D.) Daiene Louveira Hokama de Sousa. Dinâmica temporal e ecoacústica de metacommunidades de anuros e aves. Supervisor: Diogo Borges Provete. Universidade Federal de Mato Grosso do Sul, Brazil.

02/2021 – 02/2025 (**Ph.D.**) Francisco Péricles Branco Bahiense Guimarães. Ph.D. Análise de índices acústicos na paisagem sonora ecológica de restinga no litoral norte da Bahia. Supervisor: Geraldo Jorge Moura. Universidade Federal Rural de Pernambuco, Brazil.

02/2023 – 02/2025 (**M. Sc.**) Jenifer dos Santos Ribeiro. Análise dos impactos do fogo nas redes de co-ocorrência acústica de aves do Cerrado. Pontifícia Universidade Católica de Minas Gerais, Brazil.

10/2022 – 10/2024 (**M. Sc.**) Ana Clara Balata Siqueira. Resposta de *Leptodactylus fuscus* (Anura: Leptodactylidae) a ruídos acústicos em paisagens antropizadas na amazônia oriental. Supervisor: Gleomar Fabiano Maschio. Universidade Federal do Pará, Brazil.

11/2020 – 11/2022 (**M. Sc.**) Anderson da Rosa. Variação espacial e temporal na fenologia reprodutiva e no padrão de vocalização de comunidade de anfíbios anuros em lagoas na Serra Catarinense. Supervisor: Selvino Ne
ckel de Oliveira. Universidade Federal de Santa Catarina, Brazil.

Thesis committee

- 2020 Master Thesis Committee of Isabella Rodrigues de Melo, Ecology and Evolution, Universidade Federal de Goiás, GO, Brazil.
- 2022 Ph.D. Committee of Lidiane Gomes, Ecology and Biodiversity Conservation, Universidade Estadual de Santa Cruz, BA, Brazil.

Bachelor dissertation committee

- 2016 Bruna Pereira de Azevedo. B.A. degree in Biological Sciences, Universidade de São Paulo).
- 2016 Cesar Gonçalves Inácio. (B.A. degree in Ecology, Universidade Estadual Paulista Júlio de Mesquita Filho).