

# LARISSA SAYURI MOREIRA SUGAI

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## APPOINTMENT

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

2021 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

- 2022 I Alcozer, H Lima, **LSM Sugai**, D Llusia. Acoustic indices as proxies for biodiversity: a meta-analysis. *Biological Reviews*, doi: 10.1111/brv.12890
- 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*, doi: 10.1007/s10531-022-02475-w
- 2021 **LSM Sugai**, D Llusia, T Siqueira, TSF Silva. Revisiting the drivers of acoustic similarities in tropical anuran assemblages. *Ecology*, doi: 10.1002/ecy.3380.
- 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-Cerqueira. 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 Stefanos, 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).

#### FUNDING AWARDS

##### Research grant

- 2019 Coordenação de Aperfeiçoamento de Pessoal de Nível Superior PROAP (817737/2015) (R\$ 1,000).
- 2018-2019 Fundação de Amparo à Pesquisa do Estado de São Paulo, FAPESP (\$26,218.2).
- 2016-2019 Fundação de Amparo à Pesquisa do Estado de São Paulo, FAPESP (R\$30,925.8).
- 2016 Rufford Foundation Small Grant (£4,975).
- 2016 Coordenação de de Aperfeiçoamento de Pessoal de Nível Superior PROAP (817737/2015) (R\$ 2,655).
- 2016 Coordenação de Aperfeiçoamento de Pessoal de Nível Superior Procad 071/2013 (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

- 2017           Biogeography, Universidade Estadual Paulista Júlio de Mesquita Filho.
- 2014           Landscape Ecology, Universidade Federal de Mato Grosso do Sul, Brazil.
- 2009           Genetics, Universidade Federal de Mato Grosso do Sul, Brazil.

## SEMINARS AND WORKSHOPS

- 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    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

- 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.
- 2021    ISE Ecoacoustics Congress 2021. *"The rise and fall of biophony and the drivers of the acoustic space"*. Virtual meeting.
- 2019    1st Meeting of the Iberian Ecological Society & XIV AEET Meeting. *"Are community-wide signaling patterns driven by acoustic interactions?"*. Barcelona, Spain.
- 2019    IX Congresso Brasileiro de Herpetologia. *"O Monitoramento Acústico Passivo como ferramenta para estudos com anuros"*. Campinas, SP, Brazil.
- 2014    5° Simpósio de Geotecnologias no Pantanal-Geopantanal. *"Incorporating biodiversity expert knowledge in landscape conservation planning: a case study involving the Pantanal"*. Campo Grande, MS, Brazil.

## COMMISSIONS OF TRUST

### Associate editor

- 2021    Remote Sensing in Ecology and Conservation

### Referee for scientific journals

Methods in Ecology and Evolution (3), Functional Ecology (1), Journal of Animal Ecology (1), Ecological Indicators (3), Conservation Biology (1), Remote Sensing in Ecology and

Conservation (2), Plos One (6), Ecological Informatics (2), Bioacoustics (2), Biotropica (1), Austral Ecology (1), Ecosphere (1), Ecology and Evolution (1), 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 (1), Wildlife Research (1), Zootaxa (1)

### **Scientific evaluation**

German Federal Ministry of Education and Research.

### **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**

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