

Raquel C. Pizzardo^(she/her)

Curriculum Vitae (May 2021)

PERSONAL INFORMATION

Nationality: Brazilian

Languages: Portuguese (native speaker), English (fluent), Spanish (conversational).

Professional address: Laboratório de Sistemática, Evolução e Biogeografia de Plantas Vasculares, Departamento de Botânica, Universidade de São Paulo, São Paulo, SP 05508-090, Brazil.

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Researchgate: https://www.researchgate.net/profile/Raquel_Pizzardo

Website: <https://rpizzardo.github.io/>

EDUCATION

BSc. in Biological Sciences, Universidade de São Paulo, SP, Brazil (February 2017 – July 2021 (expected)).

RESEARCH INTERESTS

Geographic distribution, evolutionary processes, diversification and conservation biology. My previous research experience spans biogeography, conservation, diversification, phylogenetics and systematics, using plants as my study systems.

RESEARCH EXPERIENCE

October 2018 - present: “The challenge of tracing conservation policies in naturally fragmented habitats: the flora of the Espinhaço Range in a scenario of climate change”. FAPESP (grant number 2018/24601-7), PI: Thais N. C. Vasconcelos. Bursary for undergraduate internship.

I performed species distribution models for twelve different species that differ in their distribution to assess whether the distribution of species endemic of the Espinhaço Range will be affected differently by predicted scenarios of climate change.

November 2019 – December 2020: Brazil Flora Group (*Syzygium* - Myrtaceae) based at the Rio de Janeiro Botanical Garden (collaborator).

I prepared a monograph for the Brazilian Flora 2020.

December 2019 - February/2020: “Combining risk assessment and evolutionary distinctiveness in the conservation of *Chamaecrista* ser. *Coriaceae* (Fabaceae) from the Espinhaço Range”. FAPESP (grant number 2019/18627-6). PI: Thais N. C. Vasconcelos; co-PI: Eimear NicLughadha. Grant for academic visit to the Royal Botanic Gardens Kew.

I performed Evolutionarily Distinct and Globally Endangered (EDGE) and Phylogenetic Diversity methods for the clade of *Chamaecrista* ser. *Coriaceae* to analyze the peculiarities of conservation priorities in a “sky” island system, the mountain chains in *campo rupestre*.

PUBLICATIONS

- 3 Pizzardo RC, NicLughadha E, Rando JG, Forest F, Walker B, Prochazka L, Nogueira A, Vasconcelos TNC (in prep.). Conserving the evolutionary history of rapid and recent radiations: a study case with *Chamaecrista* ser. *Coriaceae* (Fabaceae) in the *campo rupestre*.
- 2 Pizzardo RC, Andrino CO, Vasconcelos TNC (submitted). The effect of climate in the distribution and conservation of some *Paepalanthus* (Eriocaulaceae) species endemic to the Brazilian Espinhaço Range. *Acta Botanica Brasilica*.
- 1 Pizzardo RC, Vasconcelos TNC, Nogueira A, Prochazka L, Cota MMT, Rando JG (2021). Field Guide: Espinhaço Range and Chapada dos Veadeiros, BRAZIL - *Chamaecrista* ser. *Coriaceae* (Fabaceae) of *campo rupestre*. *Field Museum* (<https://fieldguides.fieldmuseum.org/guides/guide/1336>).

PRESENTATIONS

- 2020:** "Conserving the evolutionary history of rapid and recent radiations: a study case with an endemic clade in the *campo rupestre*" (speaker). 28^o USP International Symposium of Undergraduate Research (virtual).
- 2020:** "Conserving the evolutionary history of rapid and recent radiations: a study case with *Chamaecrista* ser. *Coriaceae* (Fabaceae) in the *campo rupestre*" (video-poster). I Digital Symposium of Systematics and Evolution of Plants (virtual).
- 2019:** "The challenge of tracing conservation policies in naturally fragmented habitats: the flora of the Espinhaço Range in a scenario of climate change" (poster & speaker). 70th Brazilian National Conference of Botany (Maceió – AL, Brazil).
- 2019:** "The challenge of tracing conservation policies in naturally fragmented habitats: the flora of the Espinhaço Range in a scenario of climate change" (poster). 39th Regional Botany Meeting (MG, ES e BA).

FIELD EXPERIENCE

- November-December 2020:** Serra da Canastra and Espinhaço Range Southern, Minas Gerais, Brazil. 8 days. Field collection and identification of species of Ericales order in Atlantic Forest and *campo rupestre* ecosystem.
- September 2019:** Espinhaço Range Southern, Minas Gerais, Brazil. 10 days. Field collection and identification of *Chamaecrista* species (Fabaceae) in *campo rupestre* ecosystem.
- March 2019:** Espinhaço Range Southern, Minas Gerais, Brazil. 5 days. Field collection and identification of flora in *campo rupestre* ecosystem.
- January 2019:** Chapada Diamantina, Bahia, Brazil. 7 days. Field collection and identification of flora in *campo rupestre* ecosystem.

TEACHING EXPERIENCE

- 2019 & 2020 (two semesters):** Undergraduate Teach Assistant in "Diversity and Evolution of Photosynthetic Organisms" (Universidade de São Paulo, Brazil). Assisted in the preparation and presentation of practical classes and support of students during extra class activities and studies.

2018: “Genetics” (undergraduate course – Universidade de São Paulo, Brazil). Assisted in the preparation of practical classes with *Drosophila* and support of students during extra class activities and studies.

SKILLS

R programming language: competent user, including tools for data analysis and curation, statistical operations, biogeography and species distribution modelling. Main Packages: sdm, Coordinate Cleaner, rgbif, raster, ape, phytools, picante and rCAT.

ArcGIS: competent user to work with maps and geographic information.

IUCN Risk Assessment: assessment of species and contribution to the IUCN Red List, a critical indicator of the health of the world’s biodiversity.

Adobe: competent user in Illustrator and Photoshop.

AWARDS

2019 Award for best undergraduate project (*Prêmio Verde*) presented at the 70th Brazilian National Congress of Botany by the Brazilian Society of Botany (*Sociedade Botânica do Brasil* SBB).

SERVICE AND OUTREACH

2020 “Brazil’s secret gardens”. Publication of a Science Story for the Kew Science website (<https://www.kew.org/read-and-watch/campo-rupestre-brazil-secret-gardens>).

2019 Member of the organization team of “Bioblitz program: Counting Species Through Citizen Science”, organized at the Universidade de São Paulo, Brazil (<https://www.inaturalist.org/projects/university-of-sao-paulo-natural-reserve-bioblitz-ngs-2019>).

2018–2020 Conference organizer, Semana Temática da Biologia (<https://semanatematica.ib.usp.br/>).

ACTIVE SOCIETY MEMBERSHIPS

Sociedade Brasileira de Botânica, SBB.