

Rafael F Barduzzi

PhD student

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Universidade Federal de São Carlos
Botany Department
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EDUCATION

- 2024-present **Ph.D., Comparative Biology**, Universidade de São Paulo
Title: Unravelling the tempo and mode of independent radiations in the megadiverse genus *Mimosa* L. (Fabaceae, Mimoseae)
Dissertation advisor: Dr. Leonardo M. Borges
Research supervisor (Abroad): Dr. Daniel S. Moen
- 2018-2023 **B.Sc. in Biology**, Universidade Federal de São Carlos
Undergraduate research: Pollen disparity in the 'Piptadenia group' (Leguminosae): differences between lineages and ecological groups
Advisor: Dr. Leonardo M. Borges

FELLOWSHIPS

- 2025-present São Paulo Research Foundation (FAPESP) Research Internships Abroad Fellowship
- 2024-present São Paulo Research Foundation (FAPESP) Honors Doctorate Fellowship
- 2021-2023 São Paulo Research Foundation (FAPESP) Scientific Initiation Fellowship

PUBLICATIONS

Barduzzi, R. F., Y. Barros-Souza, S. Liao-Kang, and L. M. Borges. 2025. Pollen evolution in the Stryphnodendron clade (Leguminosae, Mimoseae). Brazilian Journal of Botany, 48(1), 15. <https://doi.org/10.1007/s40415-024-01059-y> (Part of special issue, *Advances in Legume Systematics* 15)

Liao-Kang, S., **R. Fernandes Barduzzi**, G. Lozano Calderón, E. Marega Junior, M. F. Simon, F. D. A. Ribeiro dos Santos, and L. M. Borges. 2024. More of almost the same: novel pollen descriptions uncover subtle morphological variation in *Mimosa* L. (Leguminosae, Mimoseae). Brazilian Journal of Botany, 47(4), 1071-1090. <https://doi.org/10.1007/s40415-024-01033-8> (Part of special issue, *Advances in Legume Systematics* 15)

MANUSCRIPTS SUBMITTED

Barduzzi, R. F., S. Liao-Kang, A. F. T. Duarte, F. A. R. Santos, and L. M. Borges. *In revision*. Morphological innovation and lineage-specific history drive disparification in the aggregated pollen of mimosoid plants. <https://www.biorxiv.org/content/10.1101/2025.04.16.649038v1>

Barduzzi, R. F., M. Santos, and L. M. Borges. *In revision*. Tree thinking and alternative knowledge among undergraduate Biological Sciences students.

PRESENTATIONS

Talks

- 2025 **Barduzzi, R. F.** Evolutionary radiations in the genus *Mimosa* L. (*Leguminosae*). UCR Center for Conservation Biology's 7th annual EcoSlam, USA
- 2024 **Barduzzi, R. F.** How to identify evolutionary radiations. 11th Meeting on Comparative Biology, Brazil
- 2023 **Barduzzi, R. F.**; Liao-Kang, S.; Santos, F. A. R. and Borges, L. M. Pollen disparity in the *Mimosa* and *Stryphnodendron* clades (*Caesalpinioideae*, Mimosoid clade): comparing lineages and ecological groups. 8th International Legume Conference, Pirenópolis, Brazil

Posters

- 2024 **Barduzzi, R. F.**; Barros-Souza, Y.; Maianne, M.; Borges, L. M. Radiations of the sensitive plants: exploring the influence of abiotic niche in diversification of the mega-genus *Mimosa* L. (*Leguminosae*). 1st Brazilian Congress of Evolutionary Biology, Curitiba, Brazil
- 2023 **Barduzzi, R. F.**; Liao-Kang, S.; Barros-Souza, Y.; Borges, L. M. Evolution of pollen morphology in the *Stryphnodendron* clade (*Fabaceae*, *Caesalpinioideae*). 73th Brazilian Congress of Botany, Belém, Brazil
- 2022 **Barduzzi, R. F.**; Liao-Kang, S. and Borges, L. M. Pollen disparity in the *Piptadenia* group (*Leguminosae*): differences between lineages and ecological groups. 2022. 72th Brazilian Congress of Botany
- 2022 **Barduzzi, R. F.** and Borges, L. M. Pollen disparity in *Piptadenia* group (*Leguminosae*), 2022, São Carlos. 1th Universidade Federal de São Carlos Congress on Undergrad Research

TEACHING EXPERIENCE

Academia

- 2024 Pollen grains: Understanding their morphology and importance for taxonomy, **Workshop** at the XVI Universidade Federal de São Carlos Biology Week, Lead organizer
- 2023 Behavioral Biology, Undergraduate course, Universidade Federal de São Carlos, **Teaching Assistant**

Student supervision

- 2025-present Felipe Ribeiro Alves Selotto (Universidade Federal de São Carlos - **Bachelor's Thesis**). Co-supervision with Leonardo M. Borges

FIELDWORK

Central Brazil (2023), Southwest Brazil (2024)

LANGUAGES

Portuguese (native); English (fluent)

PROFESSIONAL SOCIETIES

Brazilian Society of Evolutionary Biology (2024–)
Society for the Study of Evolution (2024–)