

Nicole Mitidieri-Rivera

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<https://phyloverse.github.io/>

EDUCATION

University of Wisconsin–Madison, WI, USA

Ph.D. candidate in Botany. 2023–Present

Anticipated graduation in Spring 2026

MSc. in Botany 2021–2023

Thesis: *Evolutionary pathways to becoming a fig: a phylogenetic comparative approach.*

Advisor: Kenneth J. Sytsma.

Committee: Kenneth Cameron, Ken Keefover-Ring, Claudia Solís-Lemus, Elliot Gardner, Leandro Cardoso Pederneiras

Royal Botanic Garden Edinburgh, UK

Certificate in Botanical Illustration, with distinction 2024

Universidad Nacional de la Amazonía Peruana, Iquitos, PERU

B.S. in Biological Sciences 2011

ACADEMIC APPOINTMENTS

University of Wisconsin, Madison, WI.

Graduate Teaching Assistant Spring 2022–2025

Graduate Research Assistant Fall 2021, 2025

SELECTED MANUSCRIPTS

Mitidieri-Rivera, N., Wajer, J., Pederneiras, L. (2025). (3127) Proposal to reject the name *Ficus calyculata* (Moraceae). *Taxon*, early view. DOI: <https://doi.org/10.1002/tax.70084>

Mitidieri-Rivera, N., Damián-Parizaca, A., Gardner, E., Plata-Castro, A., Zerega, N., Pederneiras, L. (2025). A nomenclator of *F.* sect. *Americanae* (Moraceae). Part I: South America. *Phytotaxa* 711(3):215–262. DOI: <https://doi.org/10.11646/phytotaxa.711.3.1>

Mitidieri-Rivera, N., Damián-Parizaca, A. (2025). *Ficus sytsmae* (Moraceae), a new species from South America and the reinstatement of *Ficus schiedeana*. *Phytotaxa* 708(2):167–181. DOI: <https://doi.org/10.11646/phytotaxa.708.2.4>

Mitidieri-Rivera, N., Gardner, E., Phipps, J., Zerega, N., Pederneiras, L., Damián-Parizaca, A., Sytsma, K. (2025). How to be a big genus? *Ficus* L. as an emerging model. *Annals of Botany* 00: 1–27. DOI: <https://doi.org/10.1093/aob/mcaf101>

Pederneiras, L. C., Zamengo, H. B., Zapata-C, D. A., **Mitidieri-Rivera, N.**, Romaniuc-Neto, S., & Mansano, V. D. F. (2023). *Ficus* subgen. *Spherosuke* sect. *Americanae* ser. *Dugandii* (Moraceae): A Curved Ostiolar Margin Group of Neotropical Fig Trees. *Systematic Botany* 48(2), 263–282. DOI: <https://doi.org/10.1600/036364423X16847773873215>

Pederneiras, L., **Mitidieri-Rivera, N.**, Romaniuc-Neto, S., Manzano, V. (2021). Typification of the *Ficus* sect. *Americanae* (Moraceae): Typification of *F. aurea* and *F. pertusa* complexes. *Phytotaxa* 514(2): 149–157. DOI: <https://doi.org/10.11646/phytotaxa.514.2.6>

Pederneiras, L., Monge, C., **Mitidieri-Rivera, N.**, et al. (2020). Nomenclatural revision of the *Ficus* sect. *Americanae* (Moraceae): Typification of *F. citrifolia* and allied species. *Phytotaxa* 474(2): 145–153. DOI: <https://doi.org/10.11646/phytotaxa.474.2.4>

Pederneiras, L., da Costa, A., Medeiros, H., **Mitidieri-Rivera, N.**, et al. (2020). Species diversity of *Ficus* L. sect. *Americanae* (Moraceae) in Acre, Brazil. *Brittonia* 72: 215–231. DOI: <https://doi.org/10.1007/s12228-020-09620-1>

Mitidieri-Rivera, N., Pederneiras, L.C., Parizaca, A.D., & Castillo, J.A. (2020). A new species and a new record of *Ficus* sect. *Pharmacosycea* (Moraceae) from Peru. *Systematic Botany* 45(1), 91–95. DOI: <https://doi.org/10.1600/036364420X15801369352342>

Pederneiras, L., Monge, C., **Mitidieri-Rivera, N.**, et al. (2019). Nomenclatural revision of *Ficus* sect. *Americanae* (Moraceae): Typification of *Ficus crocata* and allied species. *Phytotaxa* 414(5): 262–268. DOI: <https://doi.org/10.11646/phytotaxa.474.2.4>

MANUSCRIPTS UNDER REVIEW / IN PREPARATION

Mitidieri-Rivera, N., Damián-Parizaca, A., Gardner, E., Pederneiras, L. A nomenclator of *Ficus* sect. *Americanae* (Moraceae). Part II: North and Central America, and the Antilles. Under review, *Phytotaxa*

Mitidieri-Rivera, N., Wajer, J., Pederneiras, L.C. Proposal to reject the names *Ficus serrata* and *F. maculata* (Moraceae). Under review, *Taxon*

Mitidieri-Rivera, N., Pederneiras, L., Gardner, E., Damián-Parizaca, A., Sytsma, K. Evolutionary tempo and mode in Neotropical fig stranglers: a phylogenomic perspective In preparation for submission to *New Phytologist*

ADDITIONAL PUBLICATIONS

Damián-Parizaca, A., Karremans, A.P., Barona-Colmenares, A.A., Iturralde, G., Pérez, A.J., de la Cruz, W., Jost, L., Garzón, H.X., Villalba-Vargas, D., Zenteno-Ruiz, F.S., Moya-Huanca, A.L., Castro, C., Pizango, J., Vilcatoma, E., Bentley, A.G., Jiménez, M.M., Baquero, L., **Mitidieri-Rivera, N.**, Cameron, K.M. (2025). The Genus *Vanilla* (Orchidaceae) in South America—Bolivia, Colombia, Ecuador, and Peru: An Annotated Checklist with a New Species. *Annals of the Missouri Botanical Garden* 110, 335–362. DOI: <https://doi.org/10.3417/2025992>

Damián-Parizaca, A., Karremans, A.P., **Mitidieri-Rivera, N.**, Cameron, K.M. (2025). Towards a monograph of membranaceous Vanillas: a nomenclatural revision of *Vanilla* subgen. *Vanilla* (Vanilloideae, Orchidaceae). *Plant Ecology & Evolution* 158(1), 111–121. DOI: <https://doi.org/10.5091/plecevo.140667>

Damián-Parizaca, A., Monteros, M.F., Coayla-Rimachi, D., Walston, J., **Mitidieri-Rivera, N.** (2025). A new species of *Pleurothallis* (Pleurothallidinae, Orchidaceae) from the historic sanctuary of Machupicchu, Perú. *PhytoKeys* 254, 29. DOI: <https://doi.org/10.3897/phytokeys.254.142116>

Damián-Parizaca, A., & **Mitidieri-Rivera, N.** (2023). *Vanilla cameroniana* (Orchidaceae, Vanilloideae), a new species from French Guiana and new records from the Guiana Shield. *Phytotaxa* 609(3), 222–232. DOI: <https://doi.org/10.11646/phytotaxa.609.3.5>

Damián-Parizaca, A., Garzon, H.X., Baquero, L., Jimenez, M.M., Velez-Abarca, L., Iturralde, G.A., **Mitidieri-Rivera, N.**, Olortegui, S., Cameron, K.M. (2022). *Vanilla andina* (Vanilloideae, Orchidaceae), a new species of the membranaceous-leaved group from Peru and Ecuador. *Phytotaxa* 552 (1), 63–72. DOI: <https://doi.org/10.11646/phytotaxa.552.1.5>

Damián-Parizaca, A., Hagsater, E., **Mitidieri-Rivera, N.** (2022). A new Peruvian species of *Epidendrum* (Laeliinae: Orchidaceae) belonging to the *Epidendrum incomptum* group. *Phytotaxa* 552(1), 099–106. DOI: <https://doi.org/10.11646/phytotaxa.552.1.9>

Damián-Parizaca, A., **Mitidieri-Rivera, N.**, Bonilla, M., Huayllani, J.T. (2021). A new species, lectotypification and new records in *Catasetum* (Orchidaceae: Catasetinae) from Peruvian Amazon. *Botany Letters* 168(2), 191–199. DOI: <https://doi.org/10.1080/23818107.2020.1871404>

Damián-Parizaca, A., **Mitidieri-Rivera, N.**, Rimarachin, L. (2021). A new species of *Opilionanthe* (Pleurothallidinae, Orchidaceae) and new records in the *Lepanthes* clade for Perú. *Nordic Journal of Botany* 39(9), 1–9. DOI: [10.1111/njb.03307](https://doi.org/10.1111/njb.03307)

Damián-Parizaca, A., **Mitidieri-Rivera, N.**, Edquen, J. (2021). Taxonomic and nomenclatural notes on *Fernandezia* (Orchidaceae, Oncidiinae) from Peru. *Ann. Bot. Fennici* 58, 245–251. DOI: <https://doi.org/10.5735/085.058.0409>

Damián-Parizaca, A. & **Mitidieri-Rivera, N.** (2020). Living in the clouds: A new high-elevation species of *Vanilla* (Orchidaceae, Vanilloideae) from Perú. *Phytotaxa* 451(2), 154–160. DOI: <https://doi.org/10.11646/phytotaxa.451.2.5>

Damián-Parizaca, A., Salazar, G.A., **Mitidieri-Rivera, N.**, Altamirano, S. (2020). A new species and first record of the genus *Solenocentrum* (Orchidaceae: Cranichidinae) from Peru. *Lankesteriana* 20(3), 339–344. DOI: <http://dx.doi.org/10.15517/lank.v20i3.45012>

Damián-Parizaca, A., **Mitidieri-Rivera, N.**, Ormerod, P. (2020). *Crossoglossa puipuiensis* (Malaxideae: Orchidaceae), a new species, and new records of *Crossoglossa* from Peru. *Annales Botanici Fennici* 58(1-3), 37–43. DOI: <https://doi.org/10.5735/085.058.0107>

Damián-Parizaca, A., **Mitidieri-Rivera, N.**, Chiron, G. (2018). A taxonomic synopsis of *Acianthera* (Orchidaceae Pleurothallidinae) in Peru, including two new species. *Anales del Jardín Botánico de Madrid* 75(1), 5. DOI: <https://doi.org/10.3989/ajbm.2449>

BOOKS

Peru's Ministry of Environment (2022) Reference level of forest emissions from gross deforestation in the Peruvian Amazon biome [PDF]. https://redd.unfccc.int/files/nref_peru_281122_final__2_.pdf

TEACHING EXPERIENCE

University of Wisconsin-Madison, WI, USA

BOT 410: Evolution

Summer 2025

Teaching Assistant for Dr. Brandon Corder

BOT 130: General Botany

Spring 2025

Teaching Assistant for Drs. Kate McCulloh & Hiroshi Maeda

BOT 400: Plant Systematics

Fall 2023, 2024

Teaching Assistant for Dr. Kenneth Sytsma

BOT 130: General Botany

Fall-Spring 2023

Teaching Assistant for Drs. Edgard Spalding & David Baum (Fall), and Drs. Kate McCulloh & Hiroshi Maeda (Spring)

BOT 152: Introductory Biology Spring 2022
Teaching Assistant for Drs. Simon Gilroy, David Baum, and Jonathan Pauli

International Baccalaureate (IB) Program, Lima, Peru 2017-2019
Environmental Systems and Societies, Biology
Lead instructor for the IB Program and Middle School

RESEARCH GRANTS AND OTHER FUNDING

Croxdale and Ittis Research Fellowship (20,000). Botany, UW-Madison	2025
Student Research Travel Funds (1,500 USD). WiSh Hub, UW-Madison	2025
LACIS Graduate Student Travel Grant (1,200 USD). LACIS, UW-Madison	2024
NYBG Visiting Scientist Travel Award (1,400 USD). NYBG Steere Herbarium	2024
Graduate Research Grant (3,000 USD). Society of Systematic Biologists	2023
P.E.O. International Peace Scholarship awardee	2022-2025
Graduate Research Awards (10,000 USD). Botany, UW-Madison	2022-2025
Graduate Research Grant (1,200 USD). American Society of Plant Taxonomists	2022
Graduate Student Research Award (1,500 USD). Botanical Society of America	2022
Fulbright graduate fellowship (20,000 USD). Fullbright Perú	2021-2023
Internship at Instituto de Pesquisas Jardim Botânico do RJ (2,100 USD)	2019

CONFERENCE AND INFORMAL TALKS

B130 Honors series talk	Madison, WI, November 2025
Botany Informal Talks (BITS)	Madison, WI, October 2025
Botany conference	Palm Springs, CA, July 2025
XX International Botanical Congress	Madrid, Spain, July 2024
Botany conference	Anchorage, AK, July 2022
Botany conference	Virtual, July 2021
AGU Fall Meeting	Virtual, December 2020

MENTORING, SERVICE, AND OUTREACH

Ad hoc reviewer: Phytotaxa, Novon, Systematic Botany Ongoing
Provided peer review of taxonomic and systematic manuscripts, ensuring methodological rigor and contributing to the advancement of botanical research standards.

REACH Ambassador (UW-Madison) 2025-Present
Served as a representative for international scholars, fostering cross-cultural engagement and promoting inclusive academic and professional development across campus.

- Award Committee member 2025-Present
Participated in the evaluation and selection of awardees for the American Society of Plant Taxonomists and The Linnaean Society, contributing to the recognition of excellence in plant taxonomy and systematics research.
- International Student Services Advisory Board member (UW-Madison) 2025-2026
Advised on institutional policies and initiatives to enhance the academic experience and well-being of international students.
- Undergrad mentor (UW-Madison) 2025
Supervised and trained undergraduate students in herbarium-based research, fostering early-career development in plant biology.
- Search committee in the Department of Botany (UW-Madison) 2024
WIS Herbarium Collection Manager
Two faculty positions in the Botany Department
- Certified Data Carpentries Instructor (R lessons) 2023-present
Taught foundational programming and data management skills to researchers in the life sciences, promoting open, reproducible, and inclusive computational practices.
- Committee member in the Department of Botany (UW-Madison) 2022-present
DEI, awards, social, colloquium
- Webinars and public outreach (organizer and/or *presenter)
Vanilla Perú | Public webinar on the taxonomy, ecology, and conservation of Vanilla species in Peru.
Mujeres Botánicas | Panel highlighting the contributions of women in botany and biodiversity research.
Simposio de Orquídeas y Biodiversidad en Perú | Organized symposium exploring orchid systematics and conservation in tropical ecosystems.
Un abrazo que mata o da vida? El caso del género Ficus | *Public lecture on ecological interactions and evolutionary strategies in *Ficus*.
Botánica en tiempos del COVID | Virtual outreach event discussing challenges and adaptations in botanical research during the pandemic.

RESEARCH EXPERIENCE

- FAO, Lima, Peru
Carbon specialist July 2020-2021
- Designed and implemented methodologies for carbon stock assessment to support Peru's Forest Reference Emission Level (FREL) under REDD+ framework guidelines.
 - Led the technical evaluation and reporting of national forest carbon stocks, contributing to Peru's greenhouse gas inventory and climate change mitigation commitments.
 - Collaborated with interdisciplinary teams to ensure data quality, methodological consistency, and compliance with international carbon accounting standards.

IIAP, Iquitos, Peru

Researcher and Herbarium manager

2016

- Conducted fieldwork and data analysis on carbon stocks in agroforestry systems across the Maynas and Requena provinces.
- Managed the Jenaro Herrera Research Center and coordinated ongoing research activities.
- Directed the Herrerense Herbarium in Jenaro Herrera, overseeing specimen collection, curation, and documentation.

CIFOR, Iquitos, Peru

Field Assistant

2015

- Collected and processed soil samples for carbon stock quantification in both natural forest and oil palm plantation systems in the Ucayali region of Peru.
- Assisted in establishing field plots and maintaining sampling protocols to ensure consistency and comparability across sites.

Research Assistant

2013-2015

- Conducted soil carbon stock monitoring in lowland peatlands dominated by *Mauritia flexuosa* (Arecaceae), contributing to long-term assessments of tropical peatland carbon dynamics.
- Collected and analyzed CO₂ and CH₄ gas samples from soils on a monthly basis to quantify greenhouse gas fluxes and inform ecosystem carbon balance models.
- Supported data management, field logistics, and calibration of equipment for tropical peatland carbon research projects.

INF, Iquitos, Peru

Brigade team

2013

- Led field teams in Amazonian lowland rainforests conducting vegetation surveys and plant collections for the National Forest Inventory.
- Collected and identified vascular plants, managed field logistics, and coordinated with local communities and herbaria.

University of Missouri–St. Louis & Missouri Botanical Garden, U.S.A.

Research Assistant

2012–2013

- Assessed aboveground biomass carbon storage and floristic composition in Peruvian Amazon peatlands.
- Established and inventoried 24 permanent 0.5-ha swamp forest plots in Loreto, Peru.

REFERENCES

Kenneth J. Sytsma

Department of Botany
University of Wisconsin-Madison
kjsytsma@wisc.edu
Relationship: Ph.D. advisor

Elliot M. Gardner

Department of Biology
Case Western Reserve University
elliot.gardner@case.edu
Relationship: Ph.D. committee member

Leandro Cardoso Pederneiras

Fluminense Federal University, Niterói
leandro.pederneiras@gmail.com
Relationship: Ph.D. committee member