

Andrés F. Ramírez-Mejía



POSTDOCTORAL RESEARCHER AT CONICET

Institute of Regional Ecology UNT-CONICET

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I am currently investigating the patterns and mechanisms that determine the contribution of pollinators to blueberry production in northwestern Argentina. I seek to understand the effects on different productive metrics of the crop, detect optimal pollination thresholds, and evaluate the role played by the spatial context in regulating the pollination service. I am passionate about nature, literature, data analysis, and R programming.

Education

Universidad Nacional de Tucumán

PHD. BIOLOGICAL SCIENCE

Tucumán, Argentina

2018-2023

Pontificia Universidad Javeriana

MSC. CONSERVATION AND USE OF BIODIVERSITY

Bogotá, Colombia

2015-2017

Universidad de Caldas

BSC. BIOLOGIST

Manizales, Colombia

2008-2014

Awards and distinctions

- **2023** Postdoctoral fellowship granted by National Scientific and Technical Research Council - Argentina (CONICET). Resolution. Resolution: RESOL-2023-1026-APN-DIR#CONICET
- **2017** Doctoral fellowship granted by National Scientific and Technical Research Council - Argentina (CONICET). Resolution N° 4122. Thesis: Plant-animal interactions in blueberry crops (*Vaccinium corymbosum*, Ericaceae) and reciprocal effects with the Yungas native forest.
- **2017** Academic merit award during studies of master degree, at the Pontificia Universidad Javeriana. Bogotá, Colombia.
- **2017** Graduated with honors CUM LAUDE. Master in Conservation and Use of Biodiversity at the Pontificia Universidad Javeriana. Pontificia Universidad Javeriana. Bogotá, Colombia
- **2017** Master degree thesis with honorary mention. Master in Conservation and Use of Biodiversity at the Pontificia Universidad Javeriana. Bogotá, Colombia.

Research grants

Research grant Aves Argentinas to support Argentinian ornithology

AWARDED IN 2020 BY ORNITHOLOGICAL SOCIETY OF LA PLATA

Argentina

\$50000 ARS (\$640 US)

- Ecosystem services provided by hummingbirds (Trochilidae): the pollination of blueberry in the Argentinian northeastern

François Vuilleumier Fund for Research on Neotropical Birds

AWARDED IN 2018 BY NEOTROPICAL ORNITHOLOGICAL SOCIETY

EEUU

\$1000 US

- Ecosystem services provided by hummingbirds (Trochilidae): the pollination of blueberry in the Argentinian northeastern

Publications and oral presentations

PUBLISHED ARTICLES

1. **Ramírez-Mejía A F**, Lomáscolo S & Blendinger P. (2023) Hummingbirds, honeybees, and wild insect pollinators affect yield and berry quality of blueberries depending on cultivar and farm's spatial context. *Agriculture Ecosystems and Environment*. DOI: <https://doi.org/10.1016/j.agee.2022.108229>
2. Blendinger P G, Rojas T N, **Ramírez-Mejía A F**, Bender I M A, Lomáscolo S, Magro J, Núñez Montellano M G, Ruggera R A, Valoy M & Ordano M. (2022) Nutrient balance and energy-acquisition effectiveness: do birds

adjust their fruit diet to achieve intake targets? *Functional Ecology*. DOI: doi.org/10.1111/1365-2435.14164

3. **Ramírez-Mejía A F**, Urbina-Cardona N, & Sánchez F. (2022). The interplay of spatial scale and landscape transformation moderates the abundance and intraspecific variation in the ecomorphological traits of a phyllostomid bat. *Journal of Tropical Ecology*. 38(1), 31-38. DOI: doi : 10 . 1017/S026646742100047X
4. **Ramírez-Mejía A F**, Echeverry-Galvis M A, & Sánchez F. (2021). Activity and habitat use by understory birds in a native Andean forest and a eucalypt plantation . *Wilson Journal of Ornithology*. 132(3): 721-729. DOI: doi.org/10.1676/19-54
5. **Ramírez-Mejía A F**, Urbina-Cardona N, & Sánchez F. (2020) Functional diversity of phyllostomid bats in an urban-rural landscape: a scale-dependent analysis. *Biotropica*. 52(6): 1168-1182. DOI: doi.org/10.1111/btp.12816.
6. **Ramírez-Mejía A F**, & Sánchez F. (2016). Activity patterns and habitat use of mammals in an Andean forest and a Eucalyptus reforestation in Colombia. *Hystrix, the Italian Journal of Mammalogy*, 27(2): 104-110. DOI: doi.org/10.4404/hystrix-27.2-11319.
7. **Ramírez-Mejía A F**, & Sánchez F. (2015). Non-volant mammals in a protected area on the Central Andes of Colombia: new records for the Caldas department and the Chinchiná River basin. *Check List*, 11(2):1-6, Article 1582. DOI: dx.doi.org/10.15560/11.2.1582.

UNDER REVIEW

1. **Ramírez-Mejía A F**, Pedro G. Blending, Ben A. Woodcock, Reto Schmucki, Lorena Escobar, Richard Daniel Morton, Lorena Vieli, Patrícia Nunes-Silva, Silvia B. Lomáscolo, Carolina Laura Morales, Maureen Murúa, Kayna Agostini, & Natacha P. Chacoff. The step by step of pollination service in blueberry crops. **Second round of revision revisión:** *Journal of Applied Ecology*.

IN PREPARATION

1. **Ramírez-Mejía A F**, Chacoff N, Lomáscolo S & Blending P. Optimal pollination thresholds to maximize blueberry production.
2. **Ramírez-Mejía A F**, Lomáscolo S, & Blending P. Individual and population effectiveness of hummingbirds, wild and managed insect pollinating blueberry crops.

THESES

PhD. 2018 - 2023 Plant-animal interactions in crops and reciprocal effects with the Yungas native forest. Thesis advisors: Pedro G. Blending, PhD; independent research CONICET, assistant professor UNT. Silvia Lomáscolo, PhD; assistant researcher CONICET.

MSc. 2017. Seed dispersion and functional diversity of phyllostomid bats in an anthropogenic landscape: a multi-scale approach. Thesis advisors: Francisco Sánchez, PhD; Universidad de los Llanos, Colombia. J. Nicolás Urbina-Cardona, PhD; Pontificia Universidad Javeriana, Colombia.

BSc. 2014. Activity pattern, habitat use, and mammals richness in native and reforested forests at the Colombian Andes. Thesis advisor: Francisco Sánchez, PhD; Universidad Militar Nueva Granada, Cundinamarca, Colombia.

ORAL PRESENTATIONS

2021. *Blueberry pollination at the NOA, are wild species important?*. Tucumán, Argentina.

2014. *Activity and habitat use of soil forage mammals in an Andean forest and a Eucalyptus reforestation*. II Symposium of small carnivores. IV Colombian congress of zoology. Cartagena, Colombia.

2014. *Species richness, use and traditional knowledge of mammals in the National Natural Park Los Nevados*. III Symposium of regional biology. Armenia, Colombia.

Teaching experience

Data Clinic

NATIONAL UNIVERSITY OF TUCUMÁN, FACULTY OF NATURAL SCIENCE AND MIGUEL LILLO INSTITUTE

- Offered to Biological Science, Agronomy and Biotechnology students. Level: PhD.

Tucumán, Argentina

2021

Introduction to R programming

NATIONAL UNIVERSITY OF TUCUMÁN, FACULTY OF NATURAL SCIENCE AND MIGUEL LILLO INSTITUTE

- Offered to Biological Science students. Level: Undergraduate.

Tucumán, Argentina

2019

Graduate courses

Introduction to Bayesian statistics methods in ecology

UNIVERSIDAD DE BUENOS AIRES

- Duration: 45h. Grade: 10/10

Buenos Aires, Argentina

2022

Ecosystem services: concepts, tools and perspectives

UNIVERSIDAD NACIONAL DE CUYO

- Duration: 45h. Grade: 10/10

Mendoza, Argentina

2022

Data science with Python

NATIONAL UNIVERSITY OF SOUTHERN PATAGONIA

- Duration: 40h. Grade: 10/10

Argentina (online)

2022

Models and data in ecology

NATIONAL UNIVERSITY OF COMAHUE

- Duration: 40h. Grade: 9/10

Bariloche, Argentina (online)

2021

Statistical tools for addressing gender metrics: a look from graph and systems theory

NATIONAL UNIVERSITY OF TUCUMÁN

- Duration: 40h. Grade: 100/100

Tucumán, Argentina

2021

Ecological networks

UNIVERSITY OF SÃO PAULO

- Duration: 60h. Grade: Excellent

São Paulo, Brasil

2020

Pollination Ecology

NATIONAL UNIVERSITY OF COMAHUE

- Duration: 60h. Grade: 100/100

Bariloche, Argentina

2019

13° International Pollination Course

FEDERAL UNIVERSITY OF JEQUITINHONHA VALLEYS

- Duration: 98h. Grade: 100/100

Minas Gerais, Brasil

2019

Advanced statistical methods in ecology and evolution

UNIVERSITY OF THE URUGUAY REPUBLIC

- Duration: 60h. Grade: 100/100

Maldonado, Uruguay

2019

Advanced statistical models using programming language R

NATIONAL UNIVERSITY OF CÓRDOBA

- Duration: 40h. Grade: 100/100

Córdoba Argentina

2018

Internships

Laboratory of Palynology

NATIONAL UNIVERSITY OF TUCUMÁN, FACULTY OF NATURAL SCIENCE AND MIGUEL LILLO INSTITUTE

- Duration: 20h

Tucumán, Argentina

2018

Member of research groups (Colombia)

Ecotonos (Research group in ecology, conservation, taxonomy and systematics)

UNIVERSITY OF LLANOS

- Classification: C.

Villavicencio, Colombia

Jan 2017-Present

InQuiBio (An integrated research group in chemistry and biology)

MILITARY UNIVERSITY NUEVA GRANADA

- Classification: A1.

Bogotá, Colombia

Jan 2013-Dec 2015

Languages

- Spanish.
- English.

Driver license

- No. 1053795821. Validity: 03-06-2028. Category: B1. Issued: Colombia (03-06-2018).