

# 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

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#### 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

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### 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

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### 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)

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### 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

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- Spanish.
- English.

## Driver license

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