



# Alejandro Manuel Ferreiro

PHD FELLOW

Institute of Animal Diversity and Ecology (IDEA)

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## Education

### PhD. Candidate, Biological Sciences

Córdoba, Argentina

NATIONAL UNIVERSITY OF CÓRDOBA

2017-Present

- Title: Phylogeography and species distribution models to define Conservation Units of the southern three-banded armadillo (*Tolypeutes matacus*) in Argentina.

### Biologist

Córdoba, Argentina

NATIONAL UNIVERSITY OF CÓRDOBA

2008-2014

- Title: Molecular phylogeny of the Euphractinae subfamily (Xenarthra). GPA 8.25/10

## Journal Publications

### Multiple refugia and glacial expansions in the Tucumane-Bolivian Yungas: The phylogeography and potential distribution modeling of *Calomys fecundus* (Thomas, 1926) (Rodentia: Cricetidae)

2020

10.1111/JZS.12375

Journal of Zoological Systematics and  
Evolutionary Research

### Phylogeography of screaming hairy armadillo *Chaetophractus vellerosus*: Successive disjunctions and extinctions due to cyclical climatic changes in southern South America

2018

10.1371/JOURNAL.PONE.0190944

PLoS ONE

## Other Publications

- Ferreiro, A. M., Abba, A. M., Camino, M., Tamburini, D. M., Decarre, J., Soibelzon, E., Castro, L. B., Rogel, T. G., Agüero, A. J., Albrecht, C. D., & Superina, M. (2019). *Tolypeutes matacus*. In *Categorización 2019 de los mamíferos de argentina según su riesgo de extinción. Lista roja de los mamíferos de argentina. Versión digital*. SAYDS-SAREM (eds.). <http://cma.sarem.org.ar>
- Abba, A. M., Camino, M., Torres, R. M., Ferreiro, A. M., Tamburini, D. M., Decarre, J., Soibelzon, E., Castro, L. B., Rogel, T. G., Agüero, A. J., Albrecht, C. D., & Superina, M. (2019). *Chaetophractus vellerosus*. In *Categorización 2019 de los mamíferos de argentina según su riesgo de extinción. Lista roja de los mamíferos de argentina. Versión digital*. SAYDS-SAREM (eds.).

## Manuscripts submitted

### Reconstructing the distribution of chacoan biota from current and past evidence: the case of the southern three-banded armadillo *Tolypeutes matacus* (Desmarest, 1804)

JOURNAL OF MAMMALIAN EVOLUTION

- Under second round of reviews

## Awards, Scholarships, Fellowships and Funding

### PICT project

Research Fellow

FUND FOR SCIENTIFIC AND TECHNOLOGICAL RESEARCH (FONCYT, ARGENTINA).

2022-2023

- Title: Biodiversity richness of non-flying mammals from central Argentina (La Pampa): changes in their distribution, dispersal pathways and extinctions during the Holocene. Project Leader: Esteban Soibelzon.

## PICT project

FUND FOR SCIENTIFIC AND TECHNOLOGICAL RESEARCH (FONCYT, ARGENTINA)

*Research Fellow*

2021-2022

- Title: Evolutionary processes in mammals from the plains of Chaco, Espinal and the Pampean region: an approach from comparative phylogeography and ecological niche modeling. Project Leader: Raúl González Ittig.

## IDEA WILD funding

IDEA WILD FOUNDATION.

*Project leader*

2019

- Title: Conservation of Southern three-banded Armadillo on its southernmost distribution range.

## SAREM Awards 2018

ARGENTINEAN SOCIETY FOR THE STUDY OF MAMMALS (SAREM).

*Project leader*

2018

- Title: Phylogeography and species distribution modelling to define Conservation Units for the southern three-banded armadillo (*Tolypeutes matacus*).

## PICT project

FUND FOR SCIENTIFIC AND TECHNOLOGICAL RESEARCH (FONCYT, ARGENTINA). RESEARCH LEADER: ESTEBAN SOIBELZON.

*Research Fellow*

2017-2019

- Title: Distribution areas and dispersal routes of medium and small mammals during the Quaternary. The Arid South American Diagonal. Project leader: Esteban Soibelzon.

## SECyT project

NATIONAL UNIVERSITY OF CÓRDOBA (ARGENTINA)

*Research Fellow*

2016-2017

- Title: Molecular systematics and phylogeography of mammals from southern South America: A study with epidemiological and conservation implications. Project leader: Marina Beatriz Chiappero.

## PhD Fellowship

CONICET (ARGENTINA)

*Fellow*

2016-2022

- Title: Phylogeography and species distribution modelling to define Conservation Units for the southern three-banded armadillo (*Tolypeutes matacus*). Tutors: Marina Beatriz Chiappero and Esteban Soibelzon.

## Undergraduate scholarship ("Estimulo a las Vocaciones Científicas")

NATIONAL INTERUNIVERSITARY COUNCIL (CIN) (ARGENTINA)

*Scholarship*

2013-2014

- Title: Molecular phylogeny of the Euphractinae subfamily (Xenarthra, Mammalia). Tutors: Sebastian Poljak and Raúl González Ittig.

# Courses taken

## R101

WWW.COGNITIVECLASS.AI

*Online course.*

September 24th, 2021.

- Scoreless.

## ENM 2020: Advanced course in Ecological Niche Modeling.

UNIVERSITY OF KANSAS (KU)

*Online course.*

From January to November, 2020.

- Scoreless.

## Cladistics, Phylosophy, Theory and Methods.

FEDERAL UNIVERSITY OF PARANÁ, BRAZIL.

*Online course.*

July 6th-17th, 2020

- Length: 45hs. Score: B

## Statistics

NATIONAL UNIVERSITY OF CÓRDOBA, ARGENTINA.

*Córdoba, Argentina*

October 29th to November 2nd, 2020

- Length: 40hs. Score: 9/10

## Theoretical-practical advanced course in modeling of species niches, an approach to correlative and process-based models.

NATIONAL UNIVERSITY OF TUCUMÁN, ARGENTINA.

*Tucumán, Argentina*

October 21th-25th, 2019

- Length: 40hs. Score: 10/10

## Extending and Enhancing DNA Barcoding Research in Argentina and Neighboring Countries: Tenth Leading Labs Training Workshop.

ARGENTINEAN MUSEUM OF NATURAL SCIENCES "BERNARDINO RIVADAVIA", ARGENTINA.

*Buenos Aires, Argentina*

September 17th-21th, 2018

- Length: 40hs. Scoreless.

## IUCN Red List Assesment modules.

WWW.CONSERVATIONTRAINING.ORG

*Online course.*

Finished on March 15th, 2018.

- Scoreless.

## Niche and distribution modeling, with an emphasis on the use of MAXENT

NATIONAL UNIVERSITY OF TUCUMÁN, ARGENTINA.

*Tucumán, Argentina*

July 10th-15th, 2017

- Length: 40hs. Score: 7/10

## XI Conservation Genetics Workshop

RED DE GENÉTICA PARA LA CONSERVACIÓN (ReGENEC) AND THE NATIONAL UNIVERSITY OF MISIONES, ARGENTINA.

- Length: 100hs. Score: 83/100

## Genetic data analysis with R

UNIVERSITY OF BUENOS AIRES, ARGENTINA.

- Length: 60 hs. Score: 9/10.

## Conservation Biology

NATIONAL UNIVERSITY OF CUYO, ARGENTINA

- Length: 45 hs. Score: 9/10.

## Introduction to Phylogeography and Niche Modelling

NATIONAL UNIVERSITY OF CÓRDOBA, ARGENTINA.

- Length: 45 hs. Score: 10/10.

## Analysis of the genetic structure of natural populations

NATIONAL UNIVERSITY OF CÓRDOBA, ARGENTINA.

- Length: 45 hs. Score: 10/10.

## Introductory course to GIS and teledetection

NATIONAL UNIVERSITY OF CÓRDOBA, ARGENTINA.

- Length: 10 hs. Scoreless.

## Biotechnology

NATIONAL UNIVERSITY OF CÓRDOBA, ARGENTINA.

- Length: 40 hs. Score: 8/10.

Misiones, Argentina

From January 29th to February 12th,  
2017.

Buenos Aires, Argentina.

From October 24th to November 2nd,  
2016.

Mendoza, Argentina

September 9th-14th, 2016.

Córdoba, Argentina

August 22th-26th, 2016.

Córdoba, Argentina

June 6th-10th, 2016.

Córdoba, Argentina

June 26th-27th, 2015.

Córdoba, Argentina

From March to June, 2013.

## Other capacitations

### i-Teams. Entrepreneurial training program and scientific-technological link

MINISTRY OF SCIENCE AND TECHNOLOGY, GOVERNEMENT OF THE PROVINCE OF CÓRDOBA, ARGENTINA

Córdoba, Argentina

From August to November, 2019

## Teaching experience

### Undergraduate assistant

NATIONAL UNIVERSITY OF CÓRDOBA

- Course: Animal Diversity 1

Córdoba, Argentina

2011

### Fellow collaboration

NATIONAL UNIVERSITY OF CÓRDOBA

- Course: Population Genetics and Evolution

Córdoba, Argentina

2016-2018

## Scientific management positions

### Representative of Fellows on the Board of Directors

INSTITUTE OF ANIMAL DIVERSITY AND ECOLOGY (IDEA, CONICET-UNC)

Córdoba, Argentina

2019-2021

## Skills

### TECHNICAL SKILLS

#### Coding languages

R, UNIX, JAVASCRIPT, HTML, CSS

#### Softwares

QGIS, MENDELEY, ZOTERO, INKSCAPE, PHOTOSHOP, GITHUB

## Lab Skills

DNA EXTRACTION, PCR, PRIMER DESIGN, ELECTROPHORESIS

## LANGUAGE SKILLS

### Spanish

NATIVE LANGUAGE

### English

ADVANCED

## References

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### Prof. Marina B. Chiappero

INSTITUTE OF ANIMAL DIVERSITY AND ECOLOGY (IDEA; UNC, CONICET)

- Contact: marina.chiappero@gmail.com

### Prof. Esteban Soibelzon

VERTEBRATE PALEONTOLOGY DIVISION, LA PLATA MUSEUM (UNLP, CONICET)

- Contact: esoibel@gmail.com

### Prof. Sebastian Poljak

SOUTHERN CENTER FOR SCIENTIFIC RESEARCH (CADIC; UNTDF, CONICET)

- Contact: sebaopoljak@hotmail.com