



# 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. Manuscript on review.

### 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.).

## 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

Research Fellow

FUND FOR SCIENTIFIC AND TECHNOLOGICAL RESEARCH (FONCYT, ARGENTINA)

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

Project leader

IDEA WILD FOUNDATION.

2019

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

## SAREM Awards 2018

*Project leader*

ARGENTINEAN SOCIETY FOR THE STUDY OF MAMMALS (SAREM).

2018

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

## PICT project

*Research Fellow*

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

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

*Research Fellow*

NATIONAL UNIVERSITY OF CÓRDOBA (ARGENTINA)

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

*Fellow*

CONICET (ARGENTINA)

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")

*Scholarship*

NATIONAL INTERUNIVERSITARY COUNCIL (CIN) (ARGENTINA)

2013-2014

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

## Courses taken

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### R101

*Online course.*

WWW.COGNITIVECLASS.AI

September 24th, 2021.

- Scoreless.

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

*Online course.*

UNIVERSITY OF KANSAS (KU)

From January to November, 2020.

- Scoreless.

### Cladistics, Phylosophy, Theory and Methods.

*Online course.*

FEDERAL UNIVERSITY OF PARANÁ, BRAZIL.

July 6th-17th, 2020

- Length: 45hs. Score: B

### Statistics

*Córdoba, Argentina*

NATIONAL UNIVERSITY OF 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.

*Tucumán, Argentina*

NATIONAL UNIVERSITY OF 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.

*Buenos Aires, Argentina*

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

September 17th-21th, 2018

- Length: 40hs. Scoreless.

### IUCN Red List Assesment modules.

*Online course.*

WWW.CONSERVATIONTRAINING.ORG

Finished on March 15th, 2018.

- Scoreless.

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

*Tucumán, Argentina*

NATIONAL UNIVERSITY OF TUCUMÁN, ARGENTINA.

July 10th-15th, 2017

- Length: 40hs. Score: 7/10

### XI Conservation Genetics Workshop

*Misiones, Argentina*

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

From January 29th to February 12th,

2017.

- 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.

*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

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

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

*Córdoba, Argentina*

*From August to November, 2019*

## Teaching experience

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### 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

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### Representative of Fellows on the Board of Directors

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

*Córdoba, Argentina*

*2019-2021*

## Skills

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### 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: seba poljak@hotmail.com