



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)

STATUS: UNDER SECOND ROUND OF REVIEWS

Journal of Mammalian Evolution

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

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