# Francisco Xavier Castellanos Insuasti

I am Master of Science in Biology student at the Ray Lab. My research focuses on the characterization and use of a particular type of Transposable Element to be used in phylogenetic hypotheses across the Chiropteran (bat) clade. I am also fascinated by bat immunity, specifically the innate immune response.



#### **EDUCATION**

# Present 2021

MS Student, Biology

Texas Tech University. The Ray Laboratory.

Q Lubbock, USA

2020

**B.S. Genetics** 

Laboratorio de Genètica Evolutiva. Universidad Nacional de Misiones

Posadas, Argentina

· Thesis: Cytogenetic and molecular studies in some species of the Genus Myotis (Chiroptera: Vespertilionidae: Myotinae) in Northern Argentina.



# RESEARCH EXPERIENCE

# Present

2021

#### Collaborator

The Ray Laboratory, Texas Tech University

Q Lubbock, USA

- · RAPID: Immunological adaptations in bats to moderate the effect of coronavirus infection.
- · RoL: FELS: EAGER: Collaborative Research: Genomics of exceptions to scaling of longevity to body size.

# Present 2015

#### Research Assistant

Andean Bear Foundation

Quito, Ecuador

· Large Mammals Project in Parque Nacional Cayambe Coca, Zona Alta.

# Present 2020

#### **Associated Researcher**

### **INABIO**

Ouito. Ecuador

- · I lead projects that seek to study the behavior of large mammals by means of analyzing tracking data.
- · I am looking to understand how large mammals make use of their natural habitat and what variables impact on how they move across their home ranges.

#### CONTACT

- Lubbock, Texas
- **)** (904) 719-2072
- xacfran@gmail.com
- frcastel.com
- aithub.com/Xacfran
- in linkedin.com/frcastel

### TECH SKILLS

R	
Bash	
Python	
Git	

#### LANGUAGES

Spanish	
English	
French	

Made in R w/ pagedown. Source code: Github repo. Last updated on 2022-09-01.

#### PROFESSIONAL EXPERIENCE

2021

#### Thesis Evaluating Committee

Universidad Distrital Francisco José de Caldas

Pagotá, Colombia

· Thesis: "Biological knowledge status of the subfamily Stenodermatinae (Gervais, 1856): a cytogenetic revision within an evolutionary framework"

2018 2015

#### Field Assistant

Laboratorio de Genética Evolutiva, Universidad Nacional de Misiones

Posadas, Argentina

- · Primarily working with large EHR and Biobank datasets.
- · Developing network-based methods to investigate and visualize clinically relevant patterns in data.

#### **♣** TEACHING EXPERIENCE

Present

#### Introduction to Telemetry and Ecology of Large Mammals

Andean Bear Foundation

Online

- · Covered introduction to R language and basic Stats
- · Medium leve

Fall 2021 & 2022

#### BIOL 1403 (BIOL I)

Department of Biological Sciences, Texas Tech University

Q Lubbock, USA

· Laboratory TA

Spring 2022

#### BIOL 1403 (BIOL II)

Department of Biological Sciences, Texas Tech University

Q Lubbock, USA

- · Laboratory TA
- · Graduate level class

Summer 2022

#### **BIOL 3416 (Genetics)**

Department of Biological Sciences, Texas Tech University

Q Lubbock, USA

- · Laboratory TA
- · Topics covered from Mendelian genetics, Morgan's experiments
- · Highest level course offered in department



## ■ SELECTED PRESS (ABOUT)

2021

Estudio reporta patrones de movimiento y estimaciones de rango de hogar del zorro andino **INABIO** News



## PUBLICATIONS

2021

A pilot study on the home range and movement patterns of the Andean Fox Lycalopex culpaeus (Molina, 1782) in Cotopaxi National Park, Ecuador.

Castellanos, A., Castellanos, F. X., Kays, R. and Brito, J. (2021). A pilot study on the home range and movement patterns of the Andean Fox Lycalopex culpaeus (Molina, 1782) in Cotopaxi National Park, Ecuador. Mammalia 86(1), 22-26. https://doi.org/10.1515/mammalia-2020-0195

2020

#### Tapirus pinchaque in Western Ecuador

Castellanos, A., Brito, J. and Castellanos, F. X.. (2020). Tapirus pinchaque in Western Ecuador. Museum of Zoologic Research IASA, Technical Bulletin, Zoologic Series 16:1-4.

2019

Glyphonycteris, O. Thomas, 1896 (Chiroptera: Phyllostomidae: Glyphonycterinae), a new genus of bats for Argentina, with commentary on its karyotype.

Sánchez, M.S., Labaroni C.A., Castellanos, F. X. and Baldo, D.J. Glyphonycteris, O. Thomas, 1896 (Chiroptera: Phyllostomidae: Glyphonycterinae), a new genus of bats for Argentina, with commentary on its karyotype. Mastozoología Neotropical, 26(2):420-429. htt ps://doi.org/10.31687/saremMN.19.26.2.0.12

2019

#### Panthera onca

Castellanos, A., Castellanos, F. X., and Vallejo, A.F. 2019. Panthera onca In: Brito, J., Camacho, M. A., Romero, V. Vallejo, A. F. (eds). Mamíferos del Ecuador. Version 2018.0. Zoology Museum, Pontificia Universidad Católica del Ecuador. Online access: https://bioweb.bio/faunaweb/mammaliaweb /FichaEspecie/Panthera%20onca



#### **CONFERENCE PRESENTATIONS**

August 2022

deAMPlifying the Immune Response: Antimicrobial Peptides Evolution in Chiroptera

Castellanos, F. X., Moreno-Santillán, D., Corthals, A., Martin, K., Moore, M.S., Lim, M., Lama, T.M., Paulat, N., Sipperly, N., Davalos, L.M., Ray, D.A. 19th IBCR - 50th NASBR.

Austin, USA

October 2018

Chromosomal studies in some species of the genus *Myotis* (Chiroptera: Vespertilionidae) from Northern Argentina.

Castellanos, F. X., Labaroni C.A., Ferro, J.M., Taffarel, A., Baldo, D.J. and Sánchez, M.S. XXXI Argentine Conference of Mastozoology.

**Q** La Rioja, Argentina

# AWARDS Science and Technology Scholarship Laboratorio de Genètica Evolutiva, Universidad Nacional de Misiones Fall 2022 Study Abroad Competitive Scholarship The Ray Laboratory, Texas Tech University General Fellowships for New and Continuing Graduate Students The Ray Laboratory, Texas Tech University Quadratical Possible Scholarship Lubbock, USA